Minutes of meeting of Bid Evaluation Committee for Technical criteria evaluation of bids for "*Selection of System Integrator for Implementing and Maintaining Traffic Incident Management System on the Chardham Mahamarg in the State of Uttarakhand*" held on 09.01.2025 @ 1200 hrs. (Tender ID: 2024_MoRTH_799811_1)

The Bids for '*Selection of System Integrator for Implementing and Maintaining Traffic Incident Management System on the Chardham Mahamarg in the State of Uttarakhand*' were invited online by the O/o Regional Officer, MoRTH, Dehradun with bid submission date as 05.03.2024. Online opening of bids on 07.03.2024 indicated that no bidder has participated in the tender.

1.1 In 2nd call, the bids were invited on 11.03.2024, with an initial bid submission date as 25.04.2024. The bid submission date was subsequently extended multiple times. The final Bid submission date of subject work was on 17.09.2024.

2. Two pre-bid meetings were conducted to address bidders' queries on 05.04.2024 and 05.07.2024. Responses to bidders' queries and amendments to the RFP were uploaded to the Central Public Procurement (CPP) portal on 23.07.2024 and 27.08.2024.

3. On 18.09.2024, following the bid due date of 17.09.2024, a representation of queries was received by one of the prospective bidders "M/s Tollman International Pvt. Ltd.", who raised concerns regarding specific RFP clauses, including the absence of a Bill of Quantities (BOQ) for project cost estimation and stringent technical specifications for camera equipment and software. The bidder also requested an extension of the bid due date. However, it was noted that the queries were received after the bid due date and their queries had already been addressed in the responses to pre-bid queries issued earlier. This was communicated to M/s Tollman International Pvt. Ltd. on 20.09.2024. Consequently, it was decided to proceed with the technical opening of the bid.

4. The online bids were opened in presence of Tender Evaluation Committee on 20.09.2024 @1600 hrs through VC. Bids from the following 02 bidders were received in the CPP Portal (Annexure-I).

Sl. No	Name of the Bidder
1.	Consortium of EFKON India Private Limited and STRABAG AG
2.	Kerala State Electronics Development Corporation Ltd (KELTRON)

5. Based on outcome of evaluation for Eligibility as per criteria specified in Section 3.5 of RFP, Committee in its meeting held on 22.11.2024 declared that both bidders are qualified for Technical Evaluation.

6. A Technical Presentation was invited from both the bidders on 05.12.2024, as per criteria specified in Section 3.6 of RFP. Subsequently, brief notes of the entire presentation in a pdf document was requested from the both the bidders which was submitted on 06.12.2024, enclosed at Annexure II.

7. Technical evaluation of both the bids covering experience of the firm, procurement & standards of the firm, key personnel profiles including evaluation of technical presentation as per criteria specified in Section 3.6 of RFP, has been concluded and the following technical marks have been allocated on the basis of bid submissions made by both the bidders:

Sl. No	Name of the Bidder	Technical score (Maximum score: 100)	
1.	Consortium of EFKON India Private Limited and STRABAG AG	Firm experience & Size (45 marks)	45
		Command Center and Analytics experience (25 marks)	25
		Procurement & Standards (10 marks)	7
		Key personnel profile (10 marks)	10
		Presentation / technical demo (10 marks)	8
		Total score obtained	**95**
2.	Kerala State Electronics Development Corporation Ltd (KELTRON)	Firm experience & Size (45 marks)	45
		Command Center and Analytics experience (25 marks)	25
		Procurement & Standards (10 marks)	7
		Key personnel profile (10 marks)	8
		Presentation / technical demo (10 marks)	8
		Total score obtained	**93**

8. Committee finalized the technical scores and found that both the bidders are meeting the minimum technical score of 75% to qualify for financial proposal opening. The outcome shall be uploaded on the tender portal. Detailed evaluation sheet is enclosed at Annexure III.

9. The committee directed that both the bidders be requested to extend their bid validity by 120 days as per RFP.

Manoj

Dhandsekar

10. The committee recommended to open financial proposals of both the qualified bidders after the receipt of bids for RFP "Selection of a Project Management Unit (PMU) to program manage implementation by System Integrator for the design, development, implementation, operation, and maintenance of a Traffic Incident Management System (TIMS) on the Chardham Mahamarg".

The meeting ended with vote of thanks to the Chair.

Chief Technology Officer, MoRTH, New Delhi	Deputy Secretary (Highways), MoRTH, New Delhi	Chief Engineer (North-II), MoRTH, New Delhi
(Member)	(Member)	(Member)
Advisor (Cost), MoRTH, New Delhi	Chief Engineer-Regional Officer, MoRTH, Dehradun	Joint Secretary (Highways), MoRTH, New Delhi
(Member)	(Member)	(Chairman)

Minutes of meeting of Bid Evaluation Committee for Eligibility criteria evaluation of bids for "*Selection of System Integrator for Implementing and Maintaining Traffic Incident Management System on the Chardham Mahamarg in the State of Uttarakhand*" held on 22.11.2024 @ 1230 hrs. (Tender ID: 2024_MoRTH_799811_1)

The Bids for '*Selection of System Integrator for Implementing and Maintaining Traffic Incident Management System on the Chardham Mahamarg in the State of Uttarakhand*' were invited online by the O/o Regional Officer, MoRTH, Dehradun with bid submission date as 05.03.2024. Online opening of bids on 07.03.2024 indicated that no bidder has participated in the tender.

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3. On 18.09.2024, following the bid due date of 17.09.2024, a representation of queries was received by one of the prospective bidders "M/s Tollman International Pvt. Ltd.", who raised concerns regarding specific RFP clauses, including the absence of a Bill of Quantities (BOQ) for project cost estimation and stringent technical specifications for camera equipment and software. The bidder also requested an extension of the bid due date. However, it was noted that the queries were received after the bid due date and their queries had already been addressed in the responses to pre-bid queries issued earlier. This was communicated to M/s Tollman International Pvt. Ltd. on 20.09.2024. Consequently, it was decided to proceed with the technical opening of the bid.

4. The online bids were opened in presence of Tender Evaluation Committee on 20.09.2024 @1600 hrs through VC. Bids from the following 02 bidders were received in the CPP Portal (Annexure-I).

Sl. No.	Name of the Bidder
1.	Consortium of EFKON India Private Limited and STRABAG AG
2.	Kerala State Electronics Development Corporation Ltd (KELTRON)

5. In compliance with Bid Evaluation Methodology prescribed in RFP Section 3 Bidders' relevant submissions have to be checked to establish their qualification against the 'Eligibility' criteria specified in Section 3.5 of RFP.

@Bhandwani

5.1 Details submitted in the tender were analyzed for checking 'Eligibility' of both bidders. A Meeting was held on 29.10.2024 and after deliberation, Clarifications with regard to MTBF report including specific details of Cameras & Security of cameras & software have been called from bidders on 30.10.2024 & clarifications were received on 14.11.2024 & 08.11.2024.

5.2 Issues raised in the representation of M/s Tollman International Pvt. Ltd. earlier and clarification sought are not related but different altogether. Committee deliberated this aspect and decided to go ahead with evaluation of bids.

5.3 Bid submissions along with clarification received have been checked for 'Eligibility' of bidders as per criteria specified in Section 3.5 of RFP & submissions of both bidders have been found meeting the minimum requirement of Eligibility Criteria. Detailed evaluation sheet is enclosed at Annexure-II.

6. Based on outcome of evaluation for Eligibility, Committee notified that both bidders are qualified for Technical Evaluation as per the following. The outcome is to be uploaded in tender portal.

Sl. No	Name of the Bidder	Qualification Status for Technical Evaluation
1.	Consortium of EFKON India Private Limited and STRABAG AG	Qualified
2.	Kerala State Electronics Development Corporation Ltd (KELTRON)	Qualified

The meeting ended with vote of thanks to the Chair.

Chief Technology Officer, MoRTH, New Delhi
(Member)

Deputy Secretary (Highways), MoRTH, New Delhi
(Member)

Chief Engineer (North-II), MoRTH, New Delhi
(Member)

Advisor (Cost), MoRTH, New Delhi
(Member)

The Chief Engineer-Regional Officer, MoRTH, Dehradun
(Member)

Joint Secretary (Highways), MoRTH, New Delhi
(Chairman)

Annexure-II

Evaluation of Eligibility of Bidder
Selection of System Integrator for Implementing and Maintaining Traffic Incident Management System on the Chardham Mahamarg

Last Date of Submission of Bid: 17.05.2024
Date of Opening of Technical Bid: 20.05.2024

S.No.	Requirement	Qualifying criteria	Ref. in RFP	Bidder-1 (KELTRON)			Bidder-2 (EFKON STRABAG AG (JV))		
				Eligibility (Eligible/Ineligible/Missing)	Page No	Information to be Sought from Bidder (if any)	Eligibility (Eligible/Ineligible/Missing)	Page No	Information to be Sought from Bidder (if any)
1	**RFP Document Fee**	Non-refundable document fee of Rs. 5,000 (Rupees Five Thousand only) + 18% GST through online portal "BHARAT KOSH" Portal only in favour of Pay and Accounts Officer (MH), New Delhi.	Section 1.8 Other Important Information Related to Bid	Eligible. Rs. 5000+18% GST Paid	1-3		Eligible. Rs. 5000+18% GST Paid	10	
2	A Bidder is required to submit, along with its BID, a BID Security of Rs. 2,00,00,000/- (INR 2 Crores Only), refundable not later than 150 (One hundred & fifty) days from the BID Due Date, except in the case of the Selected Bidder whose BID Security shall be retained till it has provided a Performance Security as per the provisions of this RFP. Bid Security in the form of Insurance Surety Bond, Account Payee Demand Draft, Banker's Cheque or Electronic Bank Guarantee (e-Bank Guarantee) issued by nationalized bank, or a Scheduled Bank in India having a net worth of at least Rs. 1,000 crore which shall have a validity period of not less than 180 (one hundred eighty) days from the BID Due Date - *To be submitted physically latest within 5 working days of the Bid Due Date to the Office of CE-RO (Dehradun) MoRTH in case of Account Payee demand draft or Banker's cheque* However, all the Central PSUs shall be exempted from submission of EMD. **Form T-8: Bank Guarantee for BID Security**	Bank guarantee for BID Security of of Rs. 2,00,00,000/- (INR 2 Crores Only)	Section 1.3 Other Important Information Related to Bid	Eligible Punjab National Bank e-BG no. 33010ILG004524 Rs. 2 Cr. Validity upto 31.03.2025 (more than 180 days from Bid due date)	4-10		Eligible Bank of Baroda e-BG no. 4276IGB006405024 Rs. 2 Cr. Validity upto 18.05.2025 (more than 180 days from Bid due date)	13-14	
3	**Copy of Certificate of Incorporation, MOA & AOA for Companies**	The Bidder/Lead Bidder of JV/ Consortium shall be a registered company in India and should be in the field of System Integration / Information Technology / Electronics/ Communication Technology for at least 5 years (prior to the date of bid submission)	Section 3.5 Eligibility Criteria	Eligible KELTRON : 29.09.1972 (More than 5 years prior to Bid due date)	31-68		Eligible EFKON : 10.07.2001 (More than 5 years prior to Bid due date) STRABAG AG : 10.01.1930 (More than 5 years prior to Bid due date)	115-121 132-200	
	Form T-2: Brief information about the Bidder(s) - *To be prepared on letterhead of the Bidder*			Eligible.	15-17		Eligible.	114-133	
	Form T-3: Power of Attorney to the Authorised Signatory			Eligible. POA in name of Mr. Subramaniam CG	69-75		Eligible. EFKON : POA in name of Mr. Sandeep Mukara STRABAG AG: POA in name of Mr. Rajat Kumar Mishra	22,26	
4	**MoU signed by both the parties (in case of Consortium)**	Subject to fulfilling the following conditions: i. maximum number of members in the JV or Consortium shall be two; ii. the parties in a JV or Consortium shall be **jointly and severally liable**; iii. members of the JV/ Consortium shall nominate one member as the **lead bidder (the "Lead Bidder")**, who **shall have at least 51% (fifty one percent) stake in the JV/ Consortium**. The nomination(s) shall be supported by a Power of Attorney **(as per the format provided in Form T-4)** iv. the **Lead Bidder**, shall be the **technology/ solution provider firm/ system integrator company amongst the parties in JV/ Consortium and shall fulfill eligibility condition of minimum 5 years of experience;** v. the Bid should include a **brief description of the roles and responsibilities of individual members**, particularly with reference to financial, technical and O&M obligations; vi. **an individual Bidder cannot at the same time be member of a JV/ Consortium replying to the RFP. Further, a member of a particular JV/ Consortium cannot be member of any other JV/ Consortium** replying to the RFP; vii. members of the JV/ Consortium shall enter into a **binding Joint Bidding Agreement** for the purpose of submitting a Bid. viii. the **technical and financial eligibility/ experience of any partner of JV or Consortium shall be considered only if the partner is proposed to have at least twenty-six percent (26%) stakes** in the JV/ Consortium.	Section 3.5 Eligibility Criteria	NA			Eligible.	102-106	
	Joint Bidding Agreement signed by both the parties			NA			Eligible Lead member (74%) : EFKON Other Member (26%) : STRABAG AG	102	
	Form T-4: Power of Attorney to the Lead Bidder			NA			Eligible.	99-101	

S.No.	Requirement	Qualifying criteria	Ref. in RFP	Bidder-1 (KELTRON)						Bidder-2 (EFKON-STRABAG AG (JV))					
				Eligibility (Eligible/Ineligible/Missing)				Page No	Information to be Sought from Bidder (if any)	Eligibility (Eligible/Ineligible/Missing)				Page No	Information to be Sought from Bidder (if any)
5	Form T-6: Format of Certificate in respect of Bidder's Average Annual Turnover and Net Worth (To be given by a Statutory Auditor)	The Bidder must have an average annual Turnover (TO) from Systems Integration /IT/ToS/ICT Services in last 3 financial years (FY 2020-21, 2021-22 and 2022-23) not less than INR 40 Cr. In case of a JV/ Consortium, the **weighted combined Turnover of each partner of JV or Consortium** shall be considered in proportion to their stakes in the JV/ Consortium in order to meet the minimum aggregate requirements of those members, who have at least 26% (twenty six per cent) stake in the JV/ Consortium.	Section 3.5 Eligibility Criteria	FY 20-21 (in Rs. Cr)	FY 21-22 (in Rs. Cr)	FY22-23 (in Rs. Cr)	Average Turnover more than Rs. 40 Cr. Eligible.	74-82		FY 20-21 (in Rs. Cr)	FY 21-22 (in Rs. Cr)	FY22-23 (in Rs.Cr)	Average Turnover more than Rs. 40 Cr. Eligible.	204	
			Lead	-	-	-				128.57	120.49	184.64			
			Other	-	-	-				23419.9	22485.8	26165.9			
			Sole/JV	190.41	196.17	238.18				6184.318	5935.458	6939.7754			
				208.25						6353.18					
6	Form T-8: Format of Certificate in respect of Bidder's Average Annual Turnover and Net Worth (To be given by a Statutory Auditor)	The Bidder must have a net worth not less than INR 10 Cr in the financial year (FY 2022-23). For the purpose of this RFP, net worth shall mean the aggregate value of the paid-up share capital and all reserves created out of the profits and securities premium account, after deducting the aggregate value of the accumulated losses, deferred expenditure and miscellaneous expenditure not written off, as per the audited balance sheet, but does not include reserves created out of revaluation of assets, write back of depreciation and amalgamation. In case of a JV/ Consortium, the weighted combined net worth of each partner of the JV or Consortium shall be considered in proportion to their stakes in the JV/ Consortium in order to meet the minimum aggregate requirements of those members, who have at least 26% (twenty-six per cent) stake in the JV/ Consortium. Provided that each member of the Consortium shall have a positive Net Worth in the financial year (FY 2022-23).	Section 3.5 Eligibility Criteria	FY22-23 (in Rs. Cr)			Net Worth (FY 2022-23) more than Rs. 10 Cr. Eligible			FY22-23 (in Rs. Cr)			Net Worth (FY 2022-23) more than Rs. 10 Cr. Eligible	205	
			Lead	-						55.31					
			Other	-						7929.83					
			Sole/JV	86.19						2102.6852					
7	Similar Projects Copy of Work Order & Work Completion Certificate of the project from respective client clearly stating the scope, current status (percentage completion), System Stability Status and the contact details of the authority. Project cost should be mentioned clearly. Form T-5: Format of submission of Work Experience / Technical Strength of Bidder	The Bidder/ Lead Bidder of JV/ Consortium should have experience of implementation and maintenance of at least 1 'Similar Project' In case of a JV/ Consortium, the requirement for 1 'Similar Project' can be fulfilled by any one or all JV/Consortium members combined who have at least 26% (twenty-six per cent) stake in the JV/ Consortium. **Definition of 'Similar Project':** Establishment of state-of-the-art Incident Detection System / TIMS with at least 1 Traffic Management Centre/ Integrated Command and Control Centre with 24x7 CCTV based Surveillance involving at least 100+ Cameras in the last five years, where the projects are either: a. Completed projects as a prime System Integrator (single entity or lead member of JV) or; b. Ongoing projects as a prime System Integrator (single entity or lead member of JV), currently in O&M stage with 100% completion of capex / deployment All projects shall be under PSUs / Central Government or its Department/ State Government/ Enforcement agencies/ Autonomous Body etc. and shall constitute at least 2 of the following Key activities have been deployed on the project: a. Traffic Monitoring Camera/Radar System b. CCTV Surveillance system with motion detection c. Video based Incident / Violation Detection System d. Vehicle speed Detection System (VSDS) e. Control and command Room	Section 3.5 Eligibility Criteria	Eligible Implemented Safe Kerala Project - Advanced Automated Traffic Enforcement System of Kerala Motor Vehicle Department				89-117		Eligible Executed Integrated Security and Traffic Management System (ISTMS) for Noida city under New Okhla Industrial Development Authority.				802	
				Brief details 1. Capex period 05/2020- 06/2023 2. Go Live completed & Currently 4th quarter Opex 3. Centre Control Room & District Enforcement Control rooms 4. ANPR based Enforcement System (more than 100 cameras) 5. Work Order & Certificate under transport Commissioner Kerala submitted						Brief Details 1. Capex period 05/2021-8/2022 2.Completed & currently in O&M 3. Command Control Centre 4. Traffic Monitoring Camera system (more than 100 cameras) 5. Work order & certificate under New Okhla Industrial Development Authority submitted				802	
8	Form T-1: Technical Bid Covering Letter - *To be prepared on letterhead of the Bidder* *(Self Declaration)*	As on last date of submission of the proposal, the Bidder/all members of JV/ Consortium shall have not been blacklisted by Central/State Government/PSU entity in India or similar agencies globally for unsatisfactory past performance, corrupt, fraudulent or any other unethical business practices.	Section 3.5 Eligibility Criteria	Eligible.				11-14		Eligible.				5-8	
9	Form T-1: Technical Bid Covering Letter - *To be prepared on letterhead of the Bidder* *(Self Declaration)*	A Bidder determined non-performing or having been terminated any project during last five years by Ministry of Road Transport & Highways, Government of India or its executing agencies like NHAI, NHIDCL etc. or any other Ministry / PSU / State / Central Government or its Department/ Enforcement agencies/ Autonomous Body etc. will not be eligible to participate in this RFP.	Section 3.5 Eligibility Criteria	Eligible.				11-14		Eligible.				5-8	
10	Copy of proof of CMMI Level 3	Lead Bidder should be CMMI Level 3, ISO 9001	Section 3.5 Eligibility Criteria	Eligible.				182-183		Eligible.				540-542	
	Copy of proof of ISO 9001														
11	Form T-12: List of Proposed Sub-contractors (if applicable)	List of Proposed sub-contractors (if applicable)	Section 3.5 Eligibility Criteria	Eligible Bidder has stated that as a government agency, sub-contractor will be finalized through tender after award.				562-563		Eligible.				552	
	Form T-12: Undertaking from sub-contractor *(On the letterhead of the subcontractor firm)*														

S.No.	Requirement	Qualifying criteria	Ref. in RFP	Bidder-1 (KELTRON)			Bidder-2 (ERICSON-STRABAG AG (JV))		
				Eligibility (Eligible/Ineligible/Missing)	Page No	Information to be Sought from Bidder (if any)	Eligibility (Eligible/Ineligible/Missing)	Page No	Information to be Sought from Bidder (if any)
12	**Form T-5: Self Declaration Form for Bidder and / or OEM Certificate from ONVIF - OEMs are not suspended by ONVIF**	Bidder / OEMs of equipment, Hardware and Software (proposed to be supplied for this tender) to ensure that OEMs must be genuine and as per definition below: 1. OEM should have designed the offered product and hold the IPR of technology being deployed for the offered model(s) as per the DGT Notification dated 29 August 2018 and as per notifications below: a. Department of Industrial Policy & Promotion (DIPP) Order No. P-45021/2/2017-B.E.-II dated 15.06.2017 b. Department of Industrial Policy & Promotion (DIPP) Order No. P-45021/2/2017-PP (BE-II) dated 28.05.2018 Additionally, OEMs must comply with DPIIT Order no. P-45021/2/2017-PP (BE-II) dated 16.09.2020. 2. Further, OEMs of equipment, Hardware, Software and Firmware (proposed to be supplied for this tender) own the Intellectual Property Rights of Hardware and "Source Code" of Firmware & Software (including Cameras/NVR), and that they are actual manufacturers, and are not getting any 3rd party manufacturing done e.g., branding & reselling in India through importing/ loading from a country that shares a Land Border with India. 3. OEMs to submit an affidavit that they own the source code of the Software and Firmware being supplied for all the relevant equipment being supplied against this tender and does not reside in any Country that shared a Land Border with India. 4. OEMs are not suspended by ONVIF even though the products of the OEMs may still appear on the ONVIF website. 5. Equipment, like Cameras etc., shall not be installed with standards like - GB28181, GB/T28181-2011, GB/T 28181-2011, GBT 28181-2011, GBT28181-2011, GB/T28181-2016, etc., protocols/standards and there shall be no option in the camera web page/settings to activate or deactivate such protocols/standards any of their version(s) or any such protocol which allow certain organizations to bypass all security parameters and look into the devices directly. 6. The offered cameras should not support or have H.265+, H.265++ or H.26SX compression (Camerasoion from any country sharing land border with India). The bid will be immediately rejected. 7. Deleted. 8. The OEM of CCTV cameras/NVR selected, should have the MAC addresses (of all makes and models of IP CCTV quoted for this tender) registered in the name of the OEM. The MAC address should not be in the name of any 3rd party.	Section 3.5 Eligibility Criteria	Eligible.	535-547, 522-527		Eligible.	558-560	
13	**Form T-20: Format for Declaration by the Bidder / all members of consortium for not being Blacklisted / Debarred**	Bidders while selecting OEMs of equipment, Hardware and Software (proposed to be supplied for this tender) to ensure that OEMs Must NOT be Blacklisted/Delisted/Debarred with any Government Entity in India or any other Country.	Section 3.5 Eligibility Criteria	Eligible.	177-180		Eligible.	605-632	
14	**Form T-14: Certificate for Tenders for Works involving possibility of sub-contracting and in the cases of specified YoT**	Information on Sensitive Technology PPP-MII Order (Public Procurement No. 4) issued vide F.7/10/2021-PPD dated 23.02.2023	Section 3.5 Eligibility Criteria	Eligible.	564-569		Eligible.	556-557	
15	**Self-Certification by the Lead Bidder/Bidder/OEM as to compliance with the provisions of the revised "Public Procurement (Preference to Make in India), Order 2017", dated 16.09.2020**	1.The provisions of the revised "Public Procurement (Preference to Make in India), Order 2017", dated 16.09.2020 (and subsequent amendments, if any, till opening of the tender) by Department of Industrial Policy and Promotion, Government of India shall apply to this tender to the extent feasible. The criteria for Capability (verifiable evidence that they have manufacturing capability to manufacture the specified quantity and supply the same with in stipulated time period), Equipment and Manufacturing facilities as well as net worth under the financial standing eligibility criteria shall be applicable to local suppliers also. 2.Bidders seeking Purchase preference for this tender shall submit the documents/ declarations etc. as per latest DPP guidelines and the applicable/associated latest letters if any till date of opening of the bid. 3.As per clause no. 8 (b) of the PPP-MII Order dated 16.09.2020, only bidders offering minimum 20% of local content of supply portion of their offered bid (Class-I Local suppliers/bidders - minimum 50% LC and Class-II Local Suppliers/bidders- minimum 20% LC as per PPP-MII Order) are eligible to participate in this tender. Bid of bidders offering less than 20% local content of supply portion of their offered bid will be SUMMARILY REJECTED. 4.As per DPIIT's OM dated 4th March 2021, services such as transportation, insurance, installation, commissioning, training and after sales service support like AMC/CMC etc. can't be claimed as local value addition. 5.The necessary documentation for items being declared to be Local shall be as per the stipulated guidelines as laid down in above mentioned policy letters and to be signed by the Bidder's Statutory Auditor/Cost Auditor	Section 3.5 Eligibility Criteria	Eligible.	522-527		Eligible.	1133-1134	

S.No.	Requirement	Qualifying criteria	Ref. in RFP	Bidder-1 (KELTRON)			Bidder-2 (EFKON-STRABAG AG (JV))		
				Eligibility (Eligible/Ineligible/Missing)	Page No	Information to be Sought from Bidder (if any)	Eligibility (Eligible/Ineligible/Missing)	Page No	Information to be Sought from Bidder (if any)
16	OEM shall submit complete and detailed MTBF test reports issued from Govt. / NABL Accredited Test Labs/Internationally Accredited Test Labs such as UL/TUV	All bidders to submit the MTBF report for all type of cameras for minimum 1,00,000 hrs @ 40 Degrees, Celsius for VSS as per Telcordia issue 3, Quality factor method Level-I Case 3 with following minimum details: 1.Calculation Background 2.Lifespan Prediction 3.Board MTBF calculation Results 4.Unit and Set Level MTBF Calculation Results 5.Unit and Set Level B10 MTBF Calculation Results 6.Defection Prediction using MTBF Mean Time Between Failure (MTBF) should be calculated at 40°C for each type of camera should not be less than 1,00,000 hours	Section 3.5 Eligibility Criteria	Eligible The Mean Time Between Failure (MTBF) at 40°C, as reported by CFR, STQC Directorate under MeitY, for the KELTRON camera (AIDS) and for the PTZ camera (TMCS) by the UL -accredited lab, mentions a value of more than 100,000 hours.	4-35 of Bidder clarification letter dt. 08.11.2024 & bidder clarification letter dt. 14.11.2024		Eligible The Mean Time Between Failure (MTBF) at 40°C, as reported by CFR, STQC Directorate under MeitY, for the PTZ camera (TMCS), box camera (AIDS & ANPR), and dome & bullet cameras (building & control room surveillance), mentions a value of more than 100,000 hours.	668-718 of online bid. & 4-613 of Bidder clarification letter dt. 08.11.2024.	
17	Form T-15: Integrity Pact (To be executed on the plain paper and submitted along with Technical Bid/ Tender documents for tenders having a value of Rs. 5 crore or more. To be signed by the bidder and same signatory competent/ authorized to sign the relevant contract on behalf of MoRTH)	Integrity pact should be submitted by the Bidder/Lead Bidder of JV/Consortium (on a separate plain paper) with the Bid duly signed by authorized signatory of the Bidder	Section 3.5 Eligibility Criteria	Eligible.	514-520		Eligible.	561-567	
18	Certificate of OWASP L2 Appendix "C" Compliant Equipment	To ensure security of VSS (Camera & Software) from vulnerabilities & breaches and discourage false undertaking from OEMs, security auditing and testing of equipment including source code of camera and software shall be carried out from STQC (Ministry of Electronics & Information Technology) or any other Agency from the list of CERT-in empanelled Information Security Auditing Organization. In order to ensure security of network and other IT equipment of VSS system, before bulk supply and installation, purchaser should ensure that security auditing and testing at the time of POC (Proof of Concept) as well as at the time of completion of project are conducted or as specified by the purchaser. In case any security breach is found in the system at any stage including at POC level, immediate strict penal action is to be initiated by the purchaser. a.All Cameras should be minimum OWASP L2 Appendix "C" Compliant before supply of equipment	Section 3.5 Eligibility Criteria	Eligible OWASP L2 appendix 'c' compliance certificate STQC empanelled agency for PTZ (TMCS) submitted . For KELTRON Camera (AIDS), bidder certified to give OWASP compliance certification before supply of equipment as per RFP.	353 of online bid and Bidder clarification letter dt. 08.11.2024.		Eligible OWASP L2 appendix 'c' compliance certificate by STQC for PTZ (TMCS), Box camera(AIDS & ANPR) and Dome & bullet camera (buiting & control room surveillance) submitted.	614-647 of Bidder clarification letter dt. 08.11.2024.	
		b.All software's should be OWASP Top 10 Compliant before supply of equipment c.Deleted		Eligible Bidder certified to give OWASP Top 10 Compliance certification before supply of equipment as per RFP.	Bidder clarification letter dt. 08.11.2024		Eligible Bidder certified to give OWASP Top 10 Compliance certification before supply of equipment as per RFP.	1138-1154	
19	Bid Should be Unconditional	Any Conditional Bids shall be Summarily Rejected		-			-		

Chief Technology Officer, MoRTH, New Delhi (Member)

Deputy Secretary (Highways), MoRTH, New Delhi (Member)

Chief Engineer (North-II), MoRTH, New Delhi (Member)

Advisor (Cost), MoRTH, New Delhi (Member)

Chief Engineer- RO, MoRTH, Dehradun (Member)

Joint Secretary (Highways), MoRTH, New Delhi (Chairman)

Evaluation of Technical Bid

Selection of System Integrator for implementing and Maintaining Traffic Incident Management System on the Chandkam Maharnarg

Time of Completion : 71 months

Last Date of Submission of Bid: 17.09.2024

Date of Opening of Technical Bid: 20.09.2024

No of bids Downloaded : 3

S.No.	Requirement	Qualifying criteria	Ref. in RFP	Point weightage as	Scoring mechanism	Bidder-1 (EFKON-HYUNDAI AG (JV))			Bidder-2 (KELTRON)		
						Score	Page No	Remarks	Score	Page No	Remarks
1	Copy of Certificate of Incorporation, MOA & AOA for Companies , Form 7-2 (brief information about the Bidder(s)	Years of experience in System Integration/ Information Technology / Electronics / Communications Technology (prior to the date of bid submission)	Section 3.6 Technical Criteria	20	10 points for 5 years + 2 additional point for every additional year of experience above 5 years up to a max. of 20 points	20	110, 111	Incorporation certificate, MoA & AoA submitted Year of establishment – 2001 (EFKON India Pvt. Ltd.) More than 10+ years of experience	20	28,31	Incorporation certificate, MoA & AoA submitted Year of establishment – 1972 More than 10+ years of experience
2	**Similar Projects** **Enclose Purchase/acceptance/Completion Certificate** issued by the customer and **Work Order / Purchase order / Copy of contract / Letter of Award** highlighting the detailed scope of the project implemented The format for exhibiting past experience should be used as prescribed in the Annexure of the RFP (as per the format provided in Points 7-8)	Bid. of 'similar projects' implemented in Information Technology / Electronics / Communication Technology (prior to the date of bid submission) for the Bidder / The Lead Bidder (in case of JV/consortium) Definition of 'Similar Projects' : Definition of 'Similar Project' : Establishment of State-of-the-art Incident Detection System / TIMS with at least 5 Traffic Management Central Integrated Command and Control Centre with 24x7 CCTV based Surveillance Working at least 100+ Cameras in the last five years, Where the projects are either: A. Completed projects as a prime System Integrator (single entity or lead member of JV) or; B. Ongoing projects as a prime System Integrator (single entity or lead member of JV), currently in O&M stage with 100% completion of capex / deployment All projects shall be under PSUs / Central Government or its Departments/ State Government/ Enforcement agencies/ Autonomous Body etc. and shall contribute at least 3 of the following key activities have been deployed in the project: a. Traffic Monitoring Camera/Radar System b. CCTV Surveillance system with motion detection c. Video based Incident / Violation Detection System d. Vehicle speed Detection System (VSDS) e. Control and command Room	Section 3.6 Technical Criteria	25	10 points for 1 project +7.5 additional points for every additional project implemented up to a max. of 25 points	25	Project 1- pg 412, Project 1- pg 430, Project 1- pg 448	**Project 1** - Implementation of Integrated Security and Traffic Management system for Noida city Client – New Okhla Industrial Dev. Authority Project status - Implementation phase completed; O&M going-on Project duration – May'21 to Aug'22 Project components – 100+ camera deployment along with integration of Command centre integration **Project 2** – Implementation of Advanced Surveillance System across Varanasi Client – Varanasi Smart City Limited Project status - Implementation phase completed; O&M going-on Project duration – Jul'20 to May'22 Project components - 100+ camera deployment along with Command centre integration **Project 3** – Implementation of Integrated Command & Control Centre and E-Governance based smart city solutions at Aligarh Client – Aligarh smart city Project status - Implementation phase completed; O&M going-on; Project duration – Jul'19 to Feb'21; Project components - 100+ camera deployment along with Command centre integration	25	Project 1- pg 90, Project 1 - pg 96 & RFP for Chennai Smart city downloaded from SMART NET portal of Ministry of Housing and Urban Affairs, Project 3 - pg 148	**Project 1** - Safe Kerala project – Advanced automated traffic enforcement system Client – Kerala Motor Vehicles Dept. Project status - Implementation phase completed; O&M going-on Project duration – May'20 to Jun'23 Project components – 100+ camera deployment along with integration of Command centre **Project 2**- Design, Supply, Implement, Commission, Operate & Manage the integrated Command & Control Centre (Chennai Smart city project) Client – Greater Chennai Corporation Project status – Implementation completed; O&M going-on Project duration – Jul'18 to Dec'20 Project components – 100+ camera deployment along with integration with ICCC **Project 3** – Supply, installation, Testing and Commissioning of Video surveillance system in connection with Implementation of Integrated Security system 2020 on Mumbai Sub urban Section of Mumbai Division, Western railway. Client – Western Railway Project status – Completed Project duration – Sept'19 to Mar'21 Project components – 100+ camera deployment along with integration of command centre

3	Clause (Go-live/acceptance/completion Certificate issued by the customer and Work Order / Purchase order / Copy of contract / Letter of Award highlighting the detailed scope of project implemented) The format for submitting past experience should be used as prescribed in the Annexure of the RFP (as per the format provided in Form T-8)	Integrated Command and Control Center with Surveillance Camera integrations with min. 100+ cameras each	Section 5.6 Technical Criteria	20	10 points for 1 project +1.5 additional points for every additional project implemented (up to a max. of 20 points	20	Project 1- pg 412; Project 2- pg 456; Project 3- pg 468	**Project 1** - Implementation of Integrated Security and Traffic Management system for Noida city Client – New Okhla Industrial Dev. Authority Project status - Implementation phase completed; O&M going-on Project duration – May'21 to Aug'22 Project components – 100+ camera deployment along with Command centre integration **Project 2** - Implementation of Advanced Surveillance System across Varanasi Client – Varanasi Smart City Limited Project status - Implementation phase completed; O&M going-on Project duration – Jul'20 to May'22 Project components - 100+ camera deployment along with Command centre integration **Project 3** - Implementation of Integrated Command & Control Centre and E-Governance based smart city solutions at Aligarh Client – Aligarh smart city Project status - Implementation phase completed; O&M going-on. Project duration – Jul'20 to Feb'21. Project components - 100+ camera deployment along with Command centre integration	20	Project 1- pg 80; Project 2 - pg 56 & RFP for Chennai Smart city awarded from SMART SBT portal of Ministry of Housing and Urban Affairs; Project 3 - pg 188	**Project 1** – Safe Kerala project – Advanced automated traffic enforcement system Client – Kerala Motor Vehicles Dept. Project status – Implementation phase completed; O&M going-on Project duration – May'20 to Jan'23 Project components – 100+ camera deployment along with integration of Command centre **Project 2**– Design, Supply, Implement, Commission, Operate & Manage the Integrated Command & Control Centre (Chennai Smart city project) Client – Greater Chennai Corporation Project status – Implementation completed; O&M going-on Project duration – Oct'18 to Dec'20 Project components – 130+ camera deployment along with integration with ICCC. **Project 3** –Supply, Installation, Testing and Commissioning of Video surveillance system in connection with implementation of integrated Security system (ISS) on Mumbai Sub urban Sections of Mumbai Division, Western railway Client – Western Railway Project status – Completed Project duration – Sept'18 to Mar'19 Project components – 100+ camera deployment along with integration of command centre
4	**Self-Certification by the Local Bidder/Bidder/OEM as to compliance with the provisions of the revised "Public Procurement (Preference to Make in India), Order 2017", dated 16.09.2020**	Manufacturing of equipment proposed for TIMS (as per DPIIT Order no. P-45021/2/2017-PP (BE-II) dated 16.09.2020 (revised "Public Procurement (Preference to Make in India) Order 2017")	Section 5.6 Technical Criteria	4	4 points for Class-I Local supplier 2 points for Class-II Local supplier 0 points for Non-Local Supplier	4	1184	Statutory Auditor certificate for Class-I local supplier submitted	4	521	Self Certification for Class-I local supplier submitted
5	Copy of proof of CMMI	CMMI Standards Level	Section 5.6 Technical Criteria	1	3 points for CMMI Level 5 2 points for CMMI Level 4 1 point for CMMI Level 3 0 points for lower than CMMI Level 3	1	1133	The CMMI certificate by Equalitas Certifications Ltd. mentions that EPSON India Private Limited is CMMI Level 3	1	189	The CMMI certificate by Quest Consultants Private Limited mentions that EPSON is CMMI Level 3

6	Copy of proof of **ONVIF Certification**	ONVIF "Appendix 1" compliant Cameras (Internet of Things)	Section 3.0 Technical Criteria	9	3 points for ONVIF Level 3 2 points for ONVIF Level 2 0 points for compliance below Level 2	2	6th of the "response to clarification on letter" dated 18th Nov'24	All proposed camera equipments are ONVIF "Appendix 1" Level 1 compliant	2	9th of online bid 1 of the "response to to clarification on letter" dated 18th Nov'24	All proposed camera equipments are ONVIF "Appendix 1" Level 2 compliant
7	**Form T-2B: Format for Resume of Project Lead**	Evaluation for Project Lead who will look after implementation of the scope for the System Integrator - Experience in similar capacity / broad sector – 50% - Experience in relevant to TOR / Project – 50%	Section 3.0 Technical Criteria	10	1. Experience in sector (Max. 5 points) - 5 points for 10 years - 4 points for 5 years - 3 point for 3 years 2. Experience in the implementation of TIMS/ Integrated Command and Control Centre in smart city/safe city/city surveillance projects (Max. 5 points) <1 points for 2 projects <1 additional point for every additional project for a maximum of 5 points	10	11/06	Name - Mr. Mohit M. Gorthar Educational Qualification - MCA & Senior Leadership Program Experience in the sector – More than 10 years Experience in implementation of TIMS/I CCC/Smart city/Safe City/city surveillance projects – More than 5 projects submitted with the online bid. 1. Mumbai Trans Harbour link project – ATMS & toll management system 2. Noida – Integrated Security & Traffic management system 3. Varanasi Smart city involving deploying surveillance cameras and integration with ICCC 4. Aligarh smart city project – Surveillance system deployment along with integration with ICCC 5. Tamakuni Smart city - Surveillance system deployment along with integration with ICCC	8	9th	Name - Mr. Binson PT Educational Qualification - B.Tech (Computer Science) Experience in the sector – More than 10 years Experience in implementation of TIMS/ICCC/Smart City/Safe City/city surveillance projects – 3 relevant TOR/ projects out of 4 projects submitted with the online bid considered. 1. Safe Kerala Project under Kerala Motor Vehicles Department (2020) 2. Automatic Traffic enforcement system with centralized control room for Kerala Motor Vehicle department (2021) 3. Integrated GIS based vehicle tracking, traffic management, Distress call response management and critical public place surveillance system in Kolkata city (2008)
8	**Technical Presentation and/or Demo for Proof of Concept (In addition to submission as per Format given in Annexure Form T-7)**	Evaluation of proof of concept and system design	Section 3.0 Technical Criteria	10	Subjective - Based on technical presentation	8		Technical presentation for proof of concept & system design held on 05.12.2024	8		Technical presentation for proof of concept & system design held on 05.12.2024
		Total				**99**			**93**		

Chief Technology Officer,
MoRTH, New Delhi
(Member)

Deputy Secretary (Highways),
MoRTH, New Delhi
(Member)

Chief Engineer (North-II),
MoRTH, New Delhi
(Member)

ADG&SS (Cost),
MoRTH, New Delhi
(Member)

Chief Engineer - RO,
MoRTH, Dehradun
(Member)

Joint Secretary (Highways),
MoRTH, New Delhi
(Chairman)

CUSTOMER – MINISTRY OF ROAD TRANSPORT & HIGHWAY

CHARDHAM – MAHAMARG TIMS PROJECT

TECHNICAL PRESENTATION FOR SELECTION OF SYSTEM INTEGRATOR FOR IMPLEMENTING AND MAINTAINING TRAFFIC INCIDENT MANAGEMENT SYSTEM ON THE CHARDHAM MAHAMARG

EFKON INDIA PRIVATE LIMITED



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Objective

The objective of this document is to provide details and insights on the technical presentation given by EFKON's team on 5th December 2024 at Chamber of JS (Highways), MoRTH, Transport Bhawan, New, Delhi with reference to our bid submitted for ***"RFP for Selection of System Integrator for Implementing and Maintaining Traffic Incident Management System on the Chardham Mahamarg"***.

The document aims to outline the critical aspects of the presentation to comprehend the proposed solution, approach & Methodology and demonstrate the POC of the various similar projects implemented by EFKON India.

Specifically, this document will:

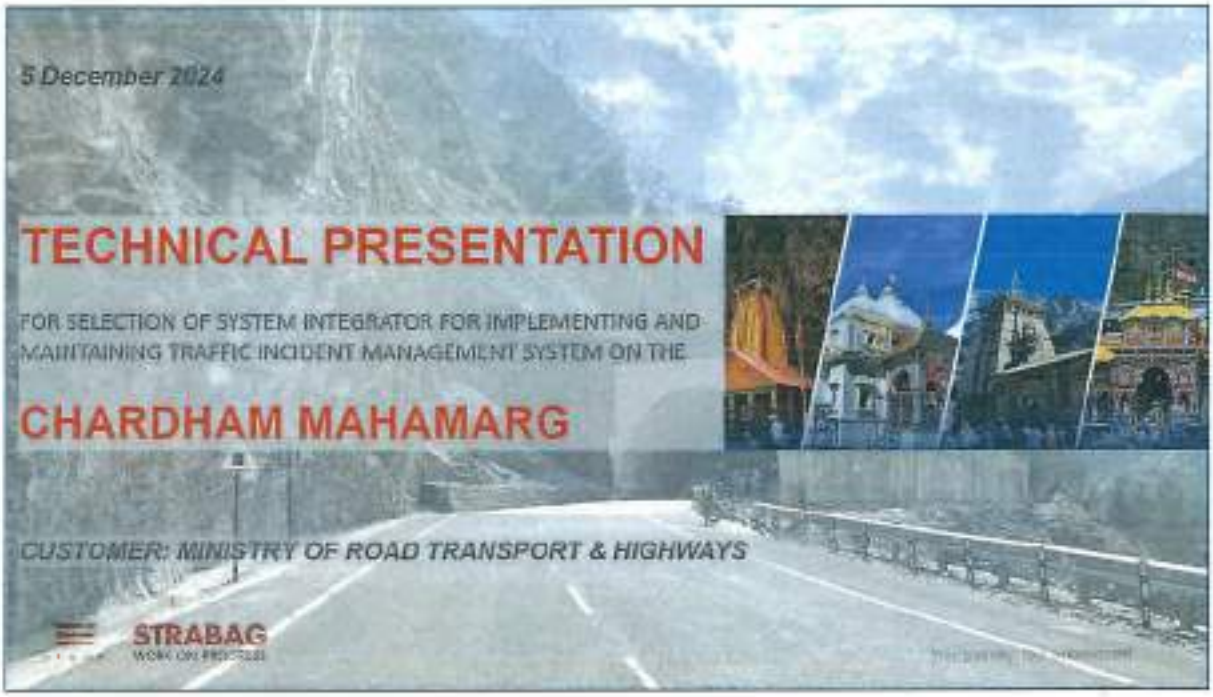
1. Provide an overview of bidder's background, capabilities, and strengths.
2. Summarize the technical requirements, system architecture, and proposed solutions presented.
3. Highlight the key features, functionalities, and integration capabilities required for TIMS.
4. Detail the criteria and EFKON's methodology, focusing on technical expertise, scalability, and operational efficiency.
5. Provide an overview of challenges, risks, and mitigation strategies discussed in the presentation.

This document will serve as a reference for stakeholders to ensure alignment with project objectives, technical expectations, and long-term operational goals.

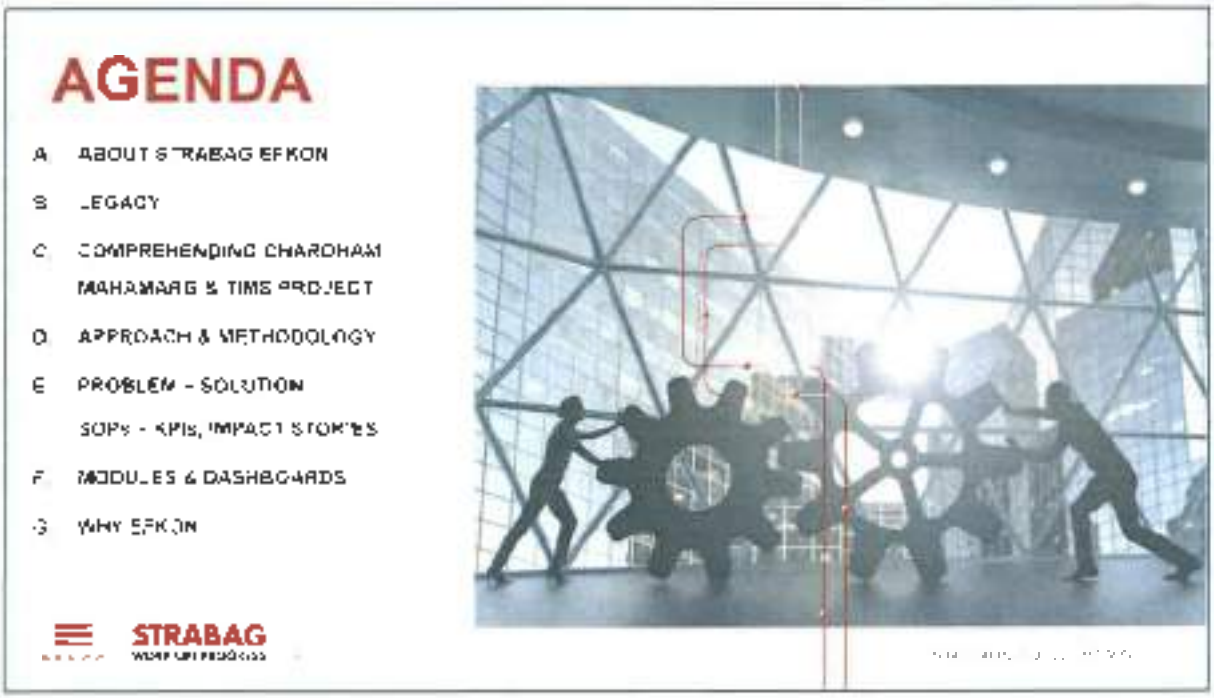
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TECHNICAL PRESENTATION

Slide-1



Slide-2



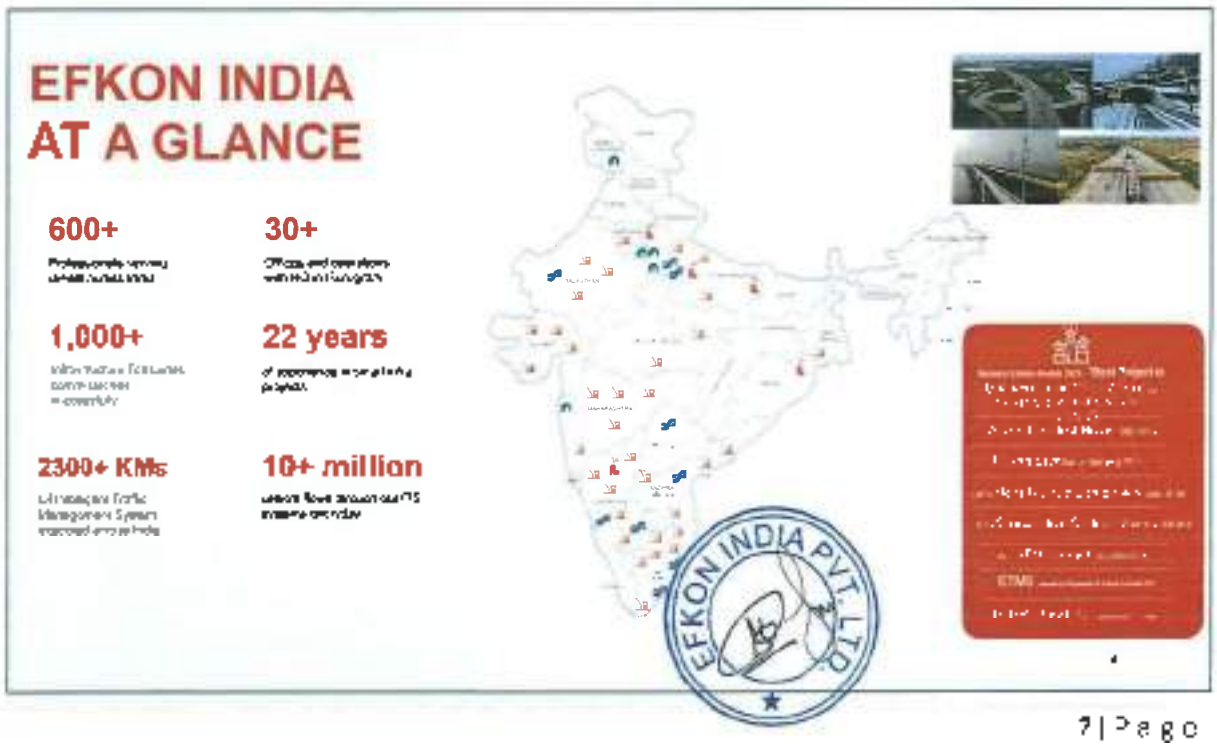
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Slide-3



Bidder's Background - STRABAG International ***(Parent Company of EFKON India and Consortium Partner in this BID)*** is a leading European construction giant with over 189 years of experience in infrastructure development. With a professional team of more than 86,000 employees, the company boasts a proven track record of successfully constructing over 10,000 miles of smart roads across the globe.

Slide-4



Bidder's background - **Efkon India Private Limited** is a leading provider of Intelligent Transportation Systems (ITS) and electronic toll collection solutions. A subsidiary of the STRABAG SE Group, **Efkon** India specializes in end-to-end ITS solutions. With a team of 600 professionals across India and an experience of over 22 years, Efkon has successfully commissioned more than 1000 Toll lanes and executed more than 2300 kms Intelligent Traffic Management System across India.

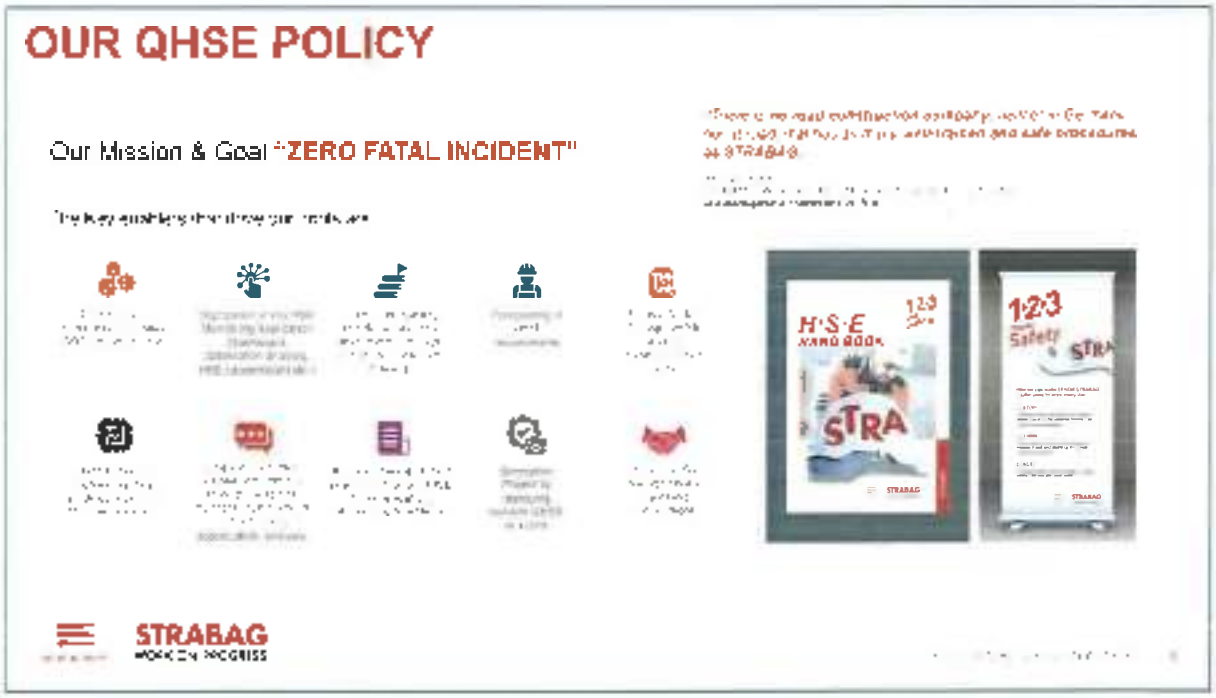
Slide-5



Bidder's Vision - EFKON's vision, **"People, Planet, Progress,"** reflects its commitment to innovation that benefits society, supports environmental sustainability, and drives forward-looking development. It focuses on improving lives, protecting the planet through green technologies, and advancing transportation infrastructure for a better future.

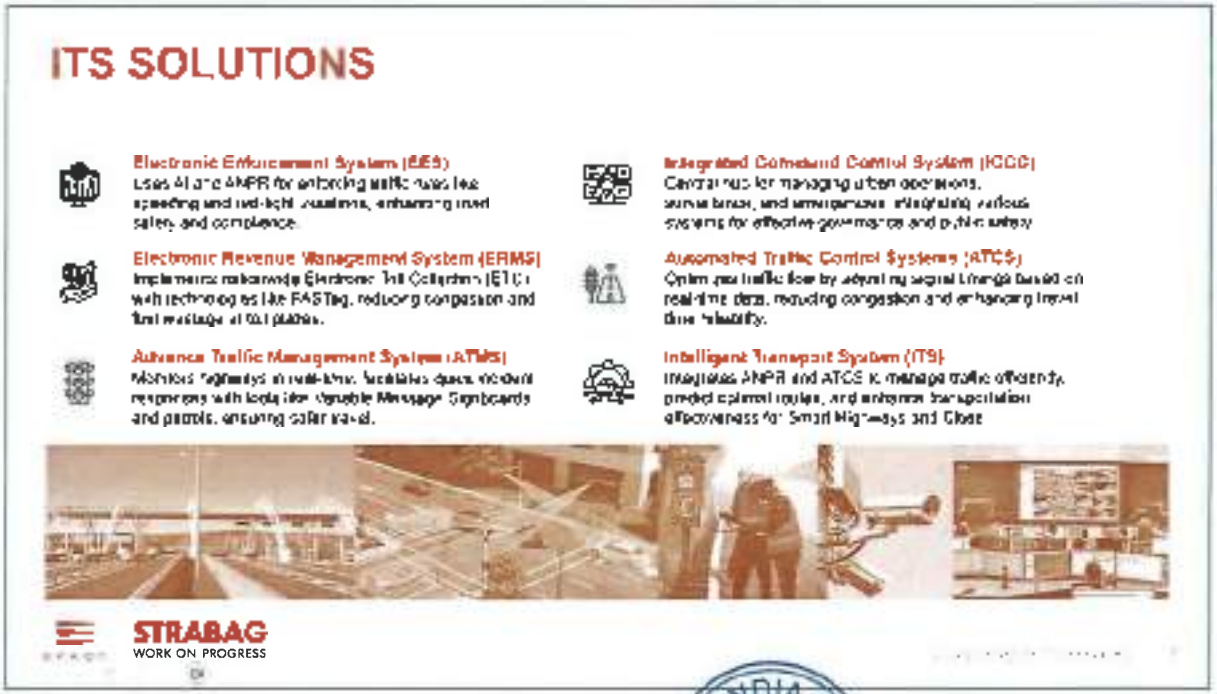
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Slide-6



Bidder's QHSE Policy - EFKON's QHSE (Quality, Health, Safety, and Environment) policy emphasizes its **"Zero Fatal Incident"** mission, prioritizing the safety and well-being of employees, clients, and stakeholders. The company is committed to maintaining the highest safety standards, minimizing risks, and fostering a culture of health, safety, and environmental responsibility in all its operations.

Slide-7



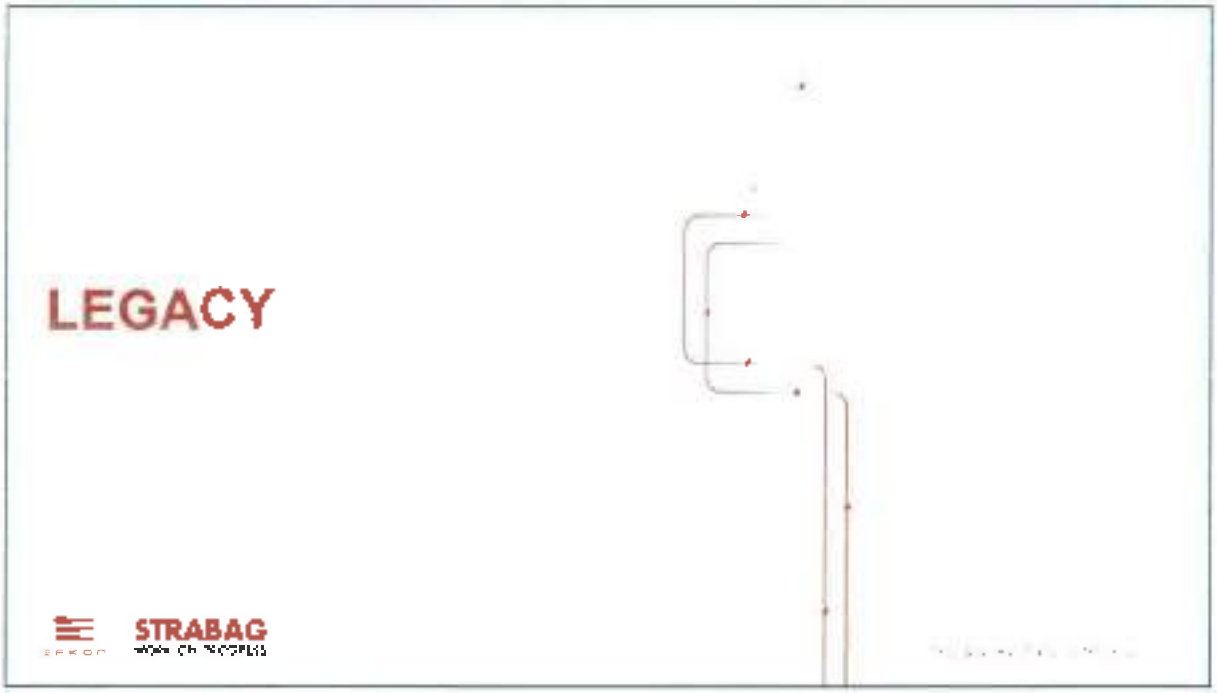
CHARDHAM-MAHAMARG RFP (Point -7, Page-52 & Point 1, Page-169) - Efkon India specializes in end-to-end ITS solutions, including toll management systems, traffic monitoring, and enforcement technologies. With a focus on innovation and sustainability, the company has

played a pivotal role in modernizing India's transportation infrastructure. Efkon India is renowned for its advanced technologies, seamless project execution, and commitment to improving road safety and efficiency.

Efkon is offering its' own inhouse solutions for this project which shall provide customer a benefit of seamless integration and customization later on as and when required, considering various third-party database and departments involved in this project. Below are the software applications proposed by EFKON for this project. EFKON holds IPR for all of these proposed software as per RFP requirement.

TIMS SOLUTIONS as per RFP	EFKON's Inhouse Solution
Central Processing System	**Integrated Command Control Centre**
Accident & Incident Detection System (AID)	**Video Incident Detection System**
Vehicle Speed Detection System (VSDS)/ANPR	**Speed Enforcement System**

Slide-8



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Slide-9



Bidder's Strength in executing large projects - STRABAG International's milestones, highlighting key projects from 1937 to 2022. This represent STRABAG's capabilities of marking an early engineering achievement, showcasing expertise in urban infrastructure, illustrating industrial-scale capabilities and emphasizing modern urban infrastructure. Also, it shows STRABAG's versatility and excellence across diverse geographies and sectors.

Slide-10



Bidder's Strength in executing large projects - Efkon has been leading the change in INDIA since its inception in 2001.We have a knack of bringing about new concepts paving the way for

new domains. All the products are Made in India and are Indian market centric. Latest edition in this list is India's first barrier less tolling on MTHL.

EFKON STRABAG has executed large projects in J&K at high altitudes and snow-covered terrains in the most extreme weather conditions, which is also applicable for the current project. This experience of working in extreme weather conditions will provide us a head start and help in quick mobilization of personnel and resources.

Slide-11



EFKON's city wide implemented projects: -

1. Bhubaneshwar, Odisha
2. Varanasi Phase-1, Uttar Pradesh
3. Tumakuru, Karnataka
4. Aligarh, Uttar Pradesh
5. Varanasi Phase-2, Uttar Pradesh
6. Noida, Uttar Pradesh

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Slide-12



EFKON's Key Highway Implementations: -

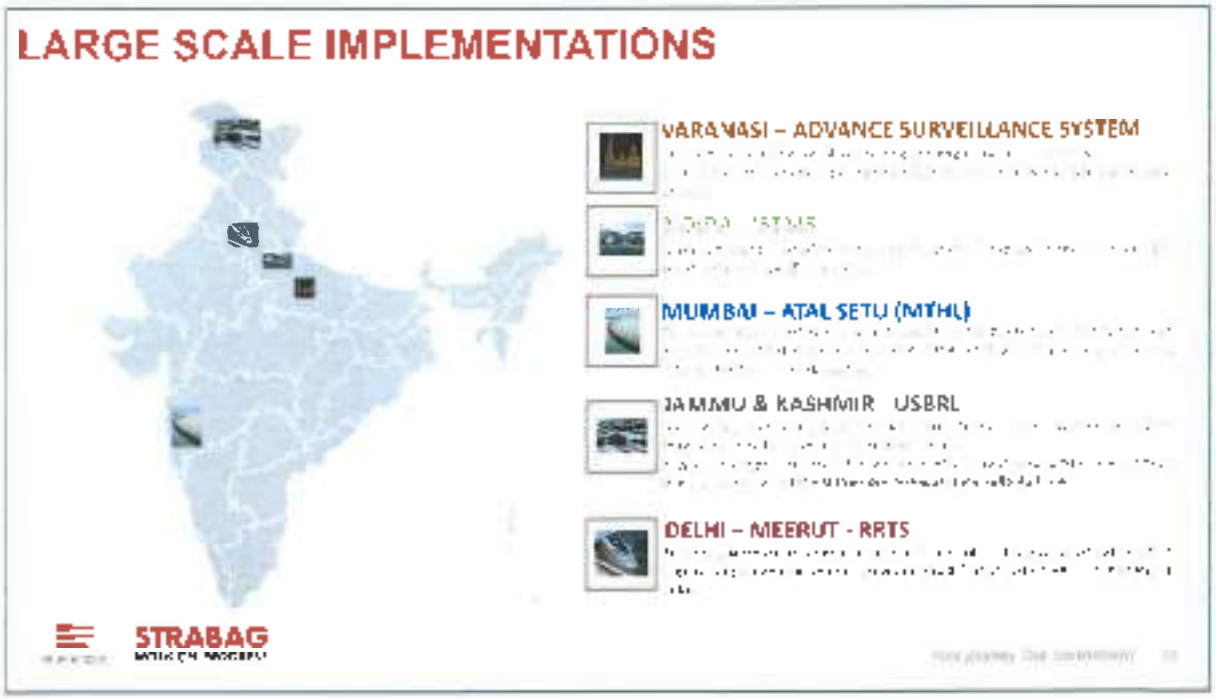
1. Yamuna Expressway, Uttar Pradesh
2. Pune-Sholapur Expressway, Pune
3. Noida-Greater Noida Expressway, Uttar Pradesh
4. Hampi Expressway, Karnataka
5. Simhapuri Expressway, Andhra Pradesh
6. Outer Ring Road, Hyderabad
7. Mumbai Trans Harbour Link, Maharashtra
8. RISL, Rajasthan Transport (under implementation) - 3 NH sections

Apart from above key projects, EFKON has implemented multiple other ATMS projects on Highways.

EFKON has implemented similar solutions which are asked in the current RFP in all these highways and city projects for last many years. Lessons learnt in all these projects shall be utilized to implement the current project for TIMS at Chardham Mahamarg.

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Slide-13



The projects on the slide highlight advanced urban infrastructure solutions like surveillance systems, ITMS, high-speed transit, and sea bridge tolling. While these focus on technical challenges in specific environments (e.g., tunnels, urban areas), the Char Dham project involves far greater complexity due to its vast scale, rugged Himalayan terrain, environmental sensitivity, and cultural considerations. It surpasses in integrating geotechnical innovations, eco-friendly measures, and disaster resilience across challenging landscapes. EFKON has extensive experience delivering advanced infrastructure solutions, as mentioned in above slide. These achievements demonstrate capability to handle the technological and operational challenges of large-scale projects like Char Dham, requiring robust solutions in difficult terrains. ***Solutions like Automatic Incident Detection system, Automatic Number plate recognition, Speed enforcement, Variable message Displays, Emergency call boxes are helping to save many lives and unfortunate events, daily. These solutions are also part of the TIMS Chardham project and having prior project experience in design, development, customization, implementation, and operation shall provide an edge as we understand the nitty-gritty of these solutions.***

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Slide-14

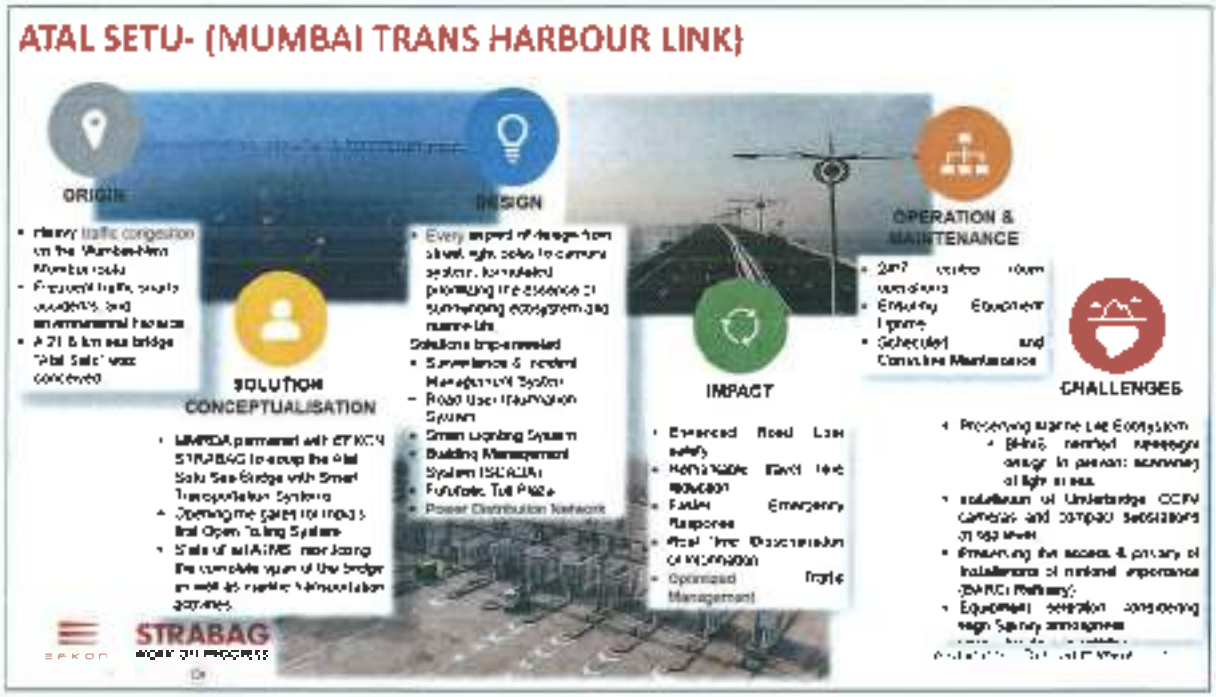


EFKON India has an extensive experience of implementing various system related to Traffic Management system across various cities and highway projects which are relevant to CHARDHAM MAHAMARG TIMS project.

- **Surveillance System** - Uses surveillance cameras to monitor, analyze, and manage traffic flow and road. EFKON India has implemented more than 3600 cameras across all projects in India
- **Enforcement System –** Used for enforcing the commuters who violates the traffic rules like Over speeding, Wrong Way Driving, Stopped Vehicles etc. EFKON India has implemented more than 1600 cameras to keep a check on such incidents.
- **Automatic Incident Detection System** - Designed to identify, monitor, and respond to accidents or incidents in real-time. EFKON India has deployed more than 2500 cameras for detecting traffic anomalies and other events through AI based incident management system.
- **Optical Fiber –** EIPL has laid more than 2300 kms of dedicated underground optical fibre across various cities and highway.

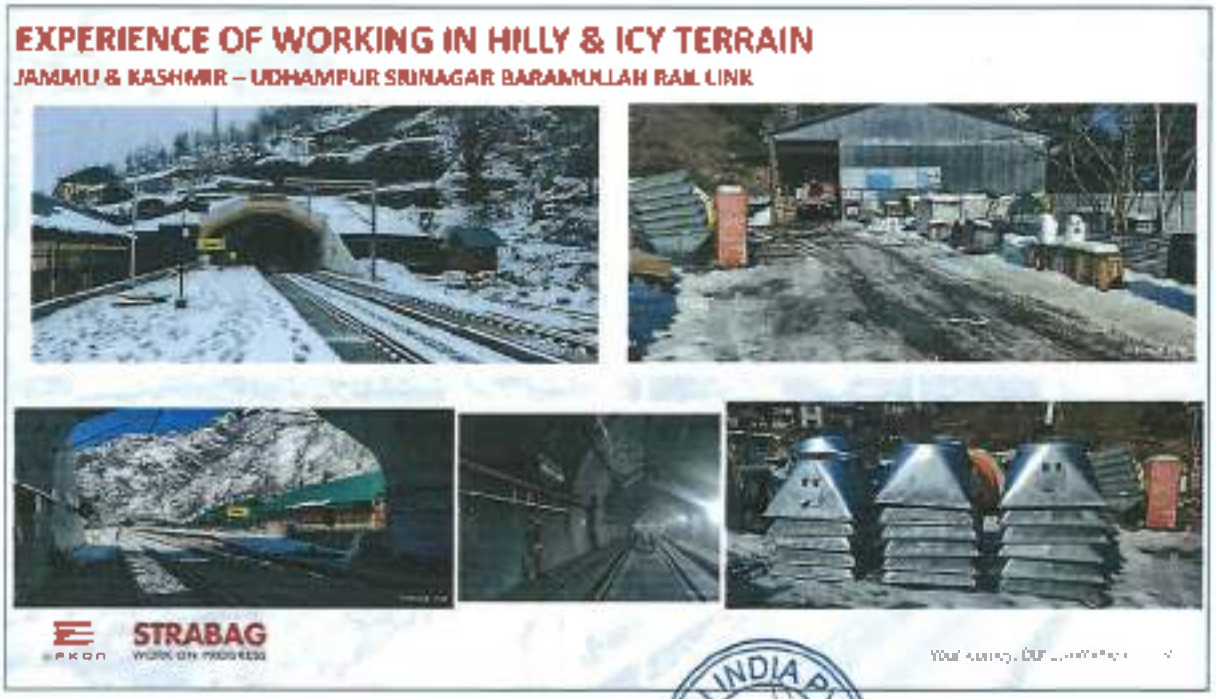
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Slide-15



Similar projects and solutions implemented by Bidder - Atal Setu is a classic example of model project for CHARDHAM MAHAMARG given harsh weather conditions and suitability of hardware. The successful implementation, delivery and operationalisation of this project can be a live proof of concept to ascertain capabilities for TIMS Project.

Slide-16



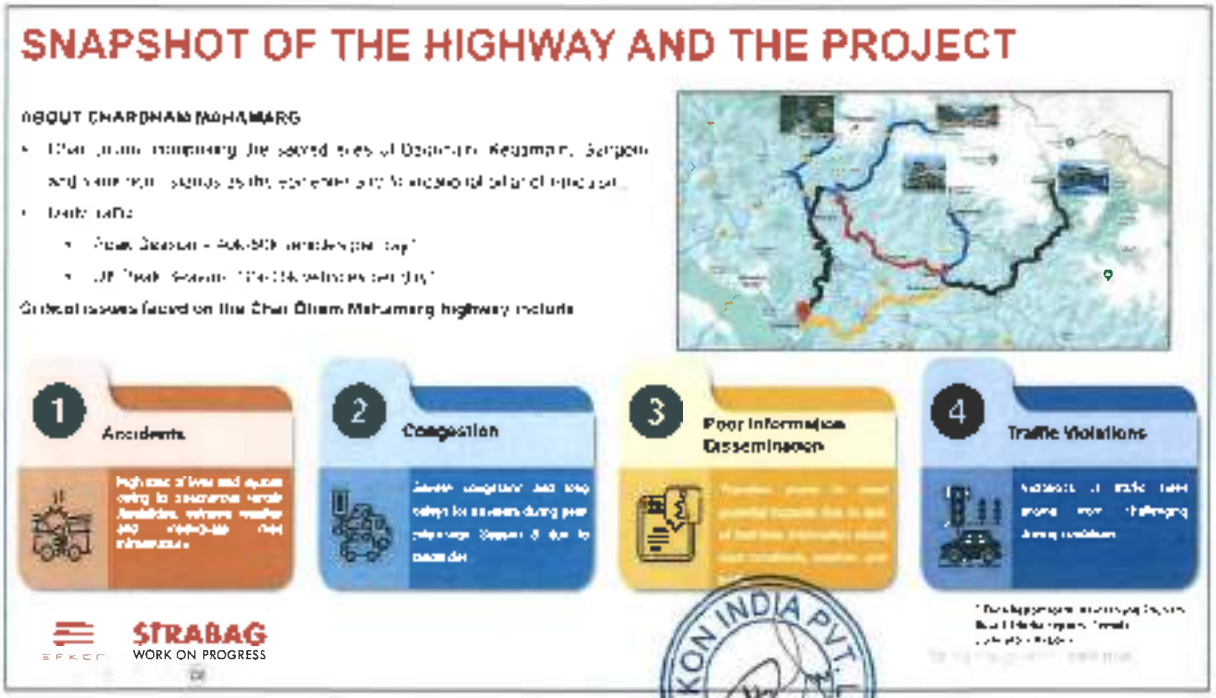
Similar projects and solutions implemented by Bidder EPKON India's involvement in the **USBRL project** in Jammu & Kashmir, underscores its expertise in challenging environments. This experience

directly aligns with the requirements of the **Char Dham Mahamarg** project, displaying EFKON's capability to deliver robust infrastructure solutions in difficult terrains and extreme weather conditions.

Slide-17



Slide-18

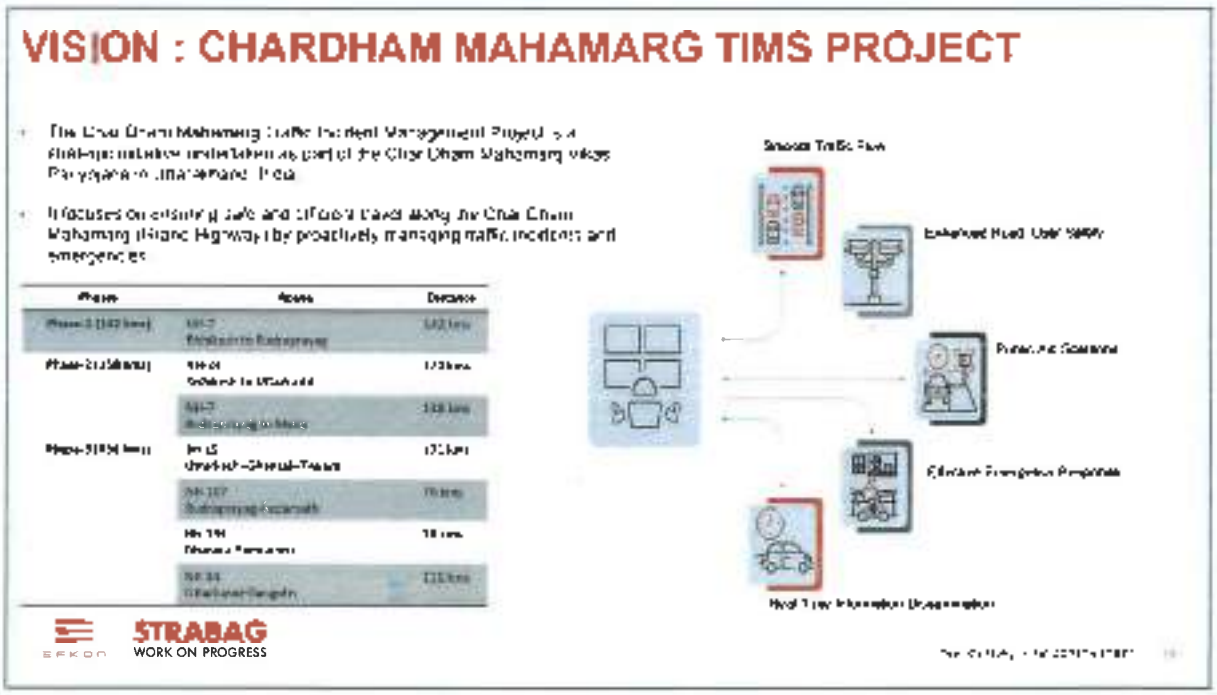


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Pre-Bid Survey and analysis of the site conditions - Every infrastructure project is designed to address specific challenges. Through a detailed analysis of the **RFP** (Objectives) and extensive surveys, four critical problems were identified on the **Char Dham Mahamarg**:

1. **High Accident Rates**: Dangerous terrain and lack of safety measures lead to frequent accidents.
2. **Traffic Congestion**: Narrow roads and heavy seasonal pilgrim traffic result in severe bottlenecks.
3. **Poor Information Dissemination**: Inadequate real-time updates about road conditions, weather, and diversions hinder travel efficiency.
4. **Traffic Violations**: Lack of monitoring and enforcement leads to unsafe driving practices.
5. **Status of Power and Network infra at the stretch.**

Slide-19

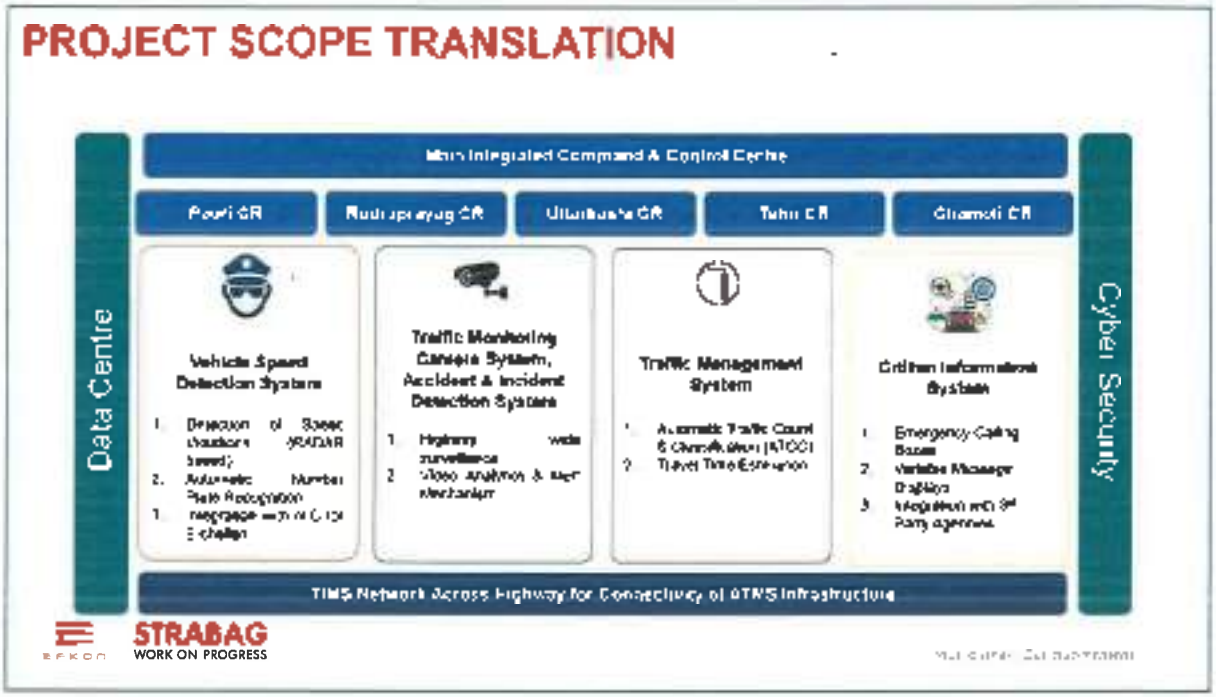


RFP (Point-2, Page-4), Project Objectives -

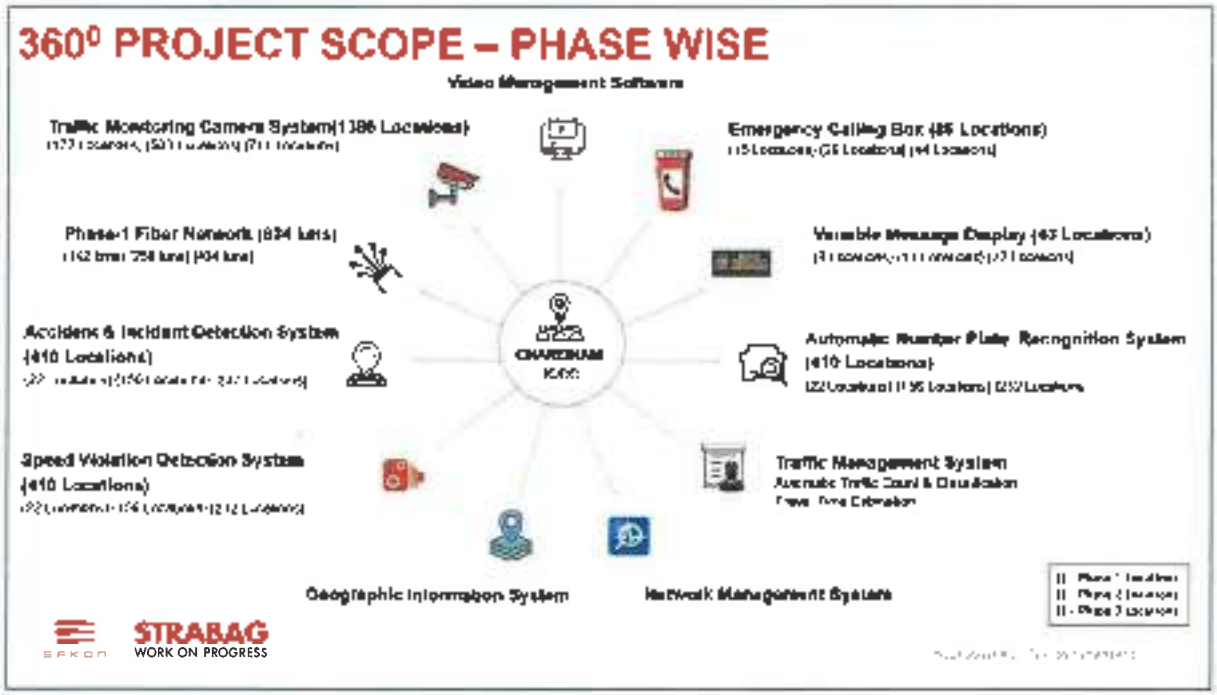
1. Smooth Traffic Flow
2. Enhanced Road User Safety
3. Public Aid Solutions
4. Effective Emergency Response
5. Real Time Information Dissemination

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Slide-20



Slide-21



RFP (Point-2, Page-4), Project Objectives, Scope of Work (Point-2.2, Page-4) and Functional and Technical Requirements (Point No. 7, Page-52)

Requirement simplification and logical arrangement of each component of scope ***(Slide 20)***

Slide 21 - This shows the overall and phase wise scope of components mentioned in RFP. The quantities mentioned are in line with RFP's design requirements and as per preliminary survey done by EFKON team.

The AID system is considered on both LHS & RHS, with total quantity of 410 nos (e.g., Cameras, VASD displays, Warning lights for AIDS etc.) instead of 205 nos as mentioned in RFP and all infrastructure is considered in line with the requirement.

The ECBs are considered in compliance with RFP requirements, wherein blackspots are identified based on-site surveys.

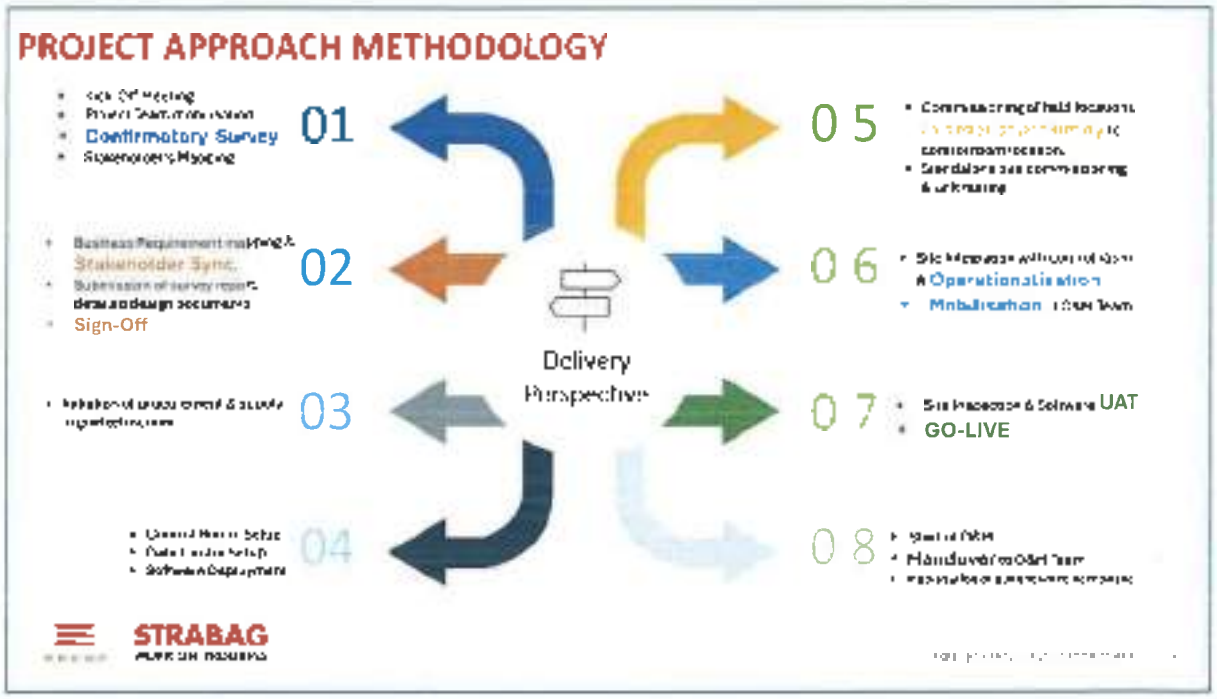
However, it is pertinent to mention that since this is design-built project, if any additional quantities are required as identified during finalization of locations, the same shall be implemented within project scope.

Slide-22



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Slide-23

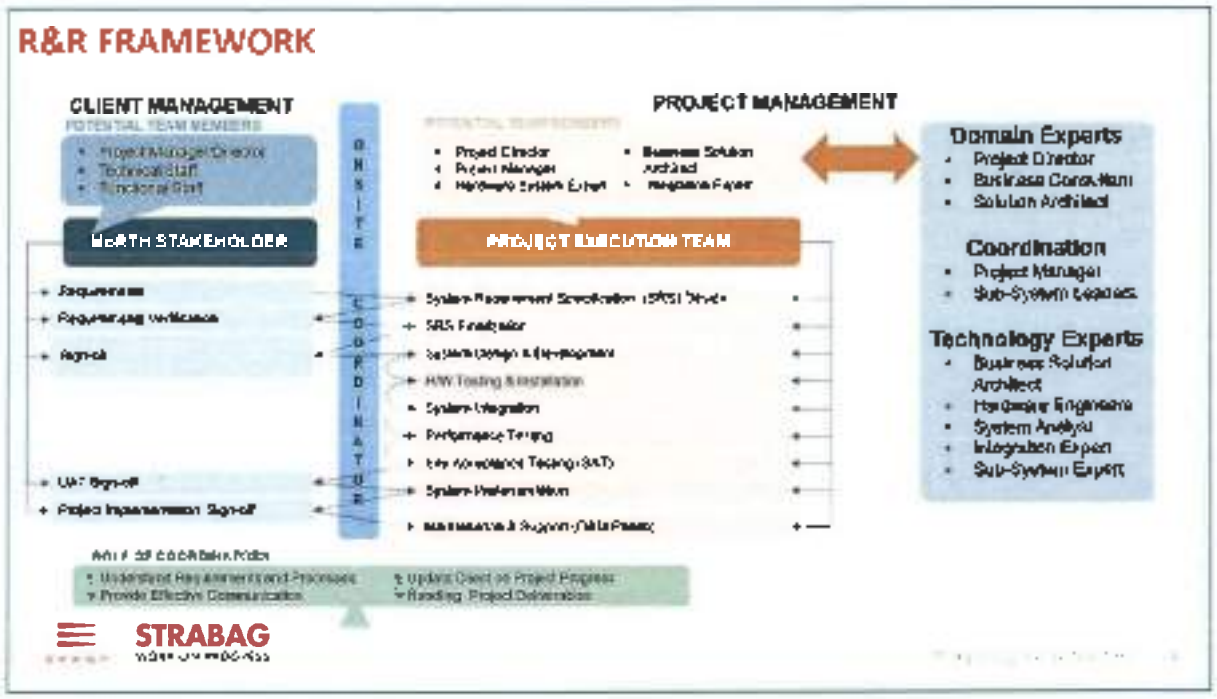


RFP (Point-E, Page-30) Technical Presentation requirement to display approach methodology for executing CHARDHAM MAHAMARG TIMS project. Elkon India outlines an 8-step **Project Approach Methodology** for efficient project delivery:

1. **Initiation:** Kick-off meeting, team mobilization, confirmatory surveys, and stakeholder mapping.
2. **Planning:** Mapping business requirements, stakeholder synchronization, submission of design documents, and sign-off.
3. **Procurement:** Graded initiation of procurement and supply processes.
4. **Setup:** Establishment of the control room, data centre, and software deployment.
5. **Commissioning:** Field location setup in proximity to the control room, followed by unit testing.
6. **Site Integration:** Operationalization through integration with the control room and mobilization of the O&M team.
7. **Go-Live:** Site inspections, software user acceptance testing (UAT), and system activation.
8. **Handover:** Transition to the O&M team and mobilization for the next project phase.

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Slide-24

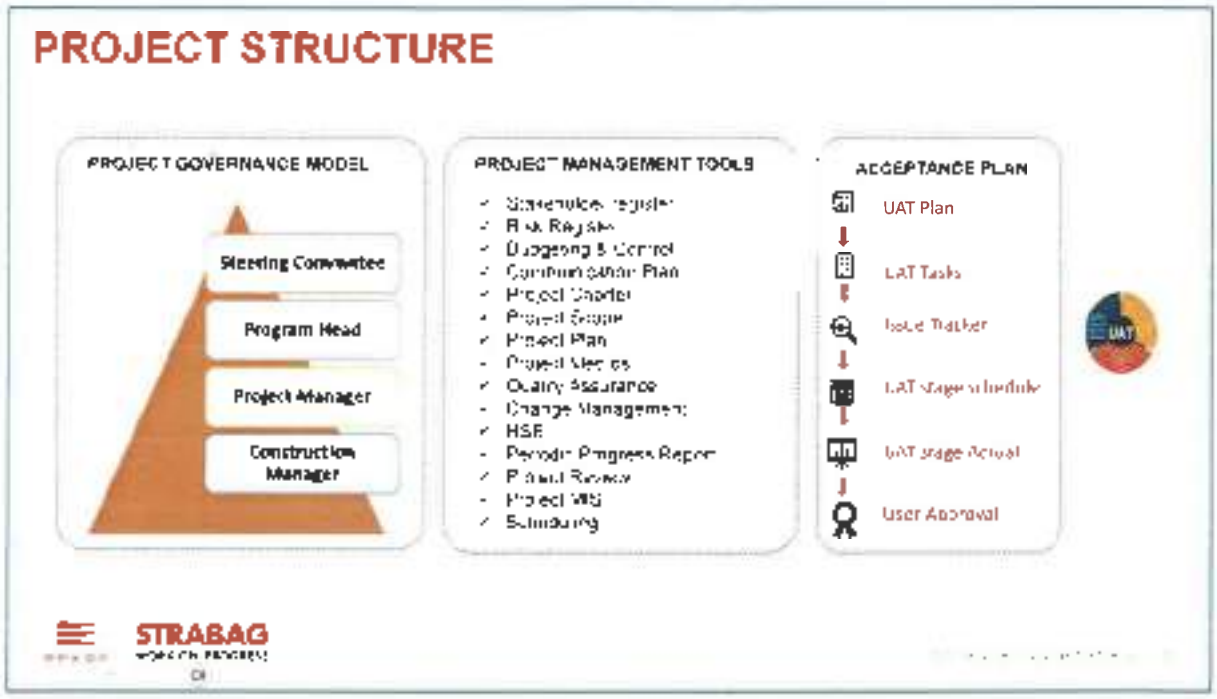


Effective Project Management and capability to execute is key to success for such complex project. Each activity and milestone are to be monitored and stakeholder concurrence and involvement paves way for on-time and successful execution of the project.

Our **Roles & Responsibility Framework** ensures clarity in task allocation by assigning specific responsibilities to individuals for well-defined milestones. By breaking down tasks into smaller, manageable milestones, we enable **Focused Accountability, Risk Mitigation, Clear Progress Monitoring, Improved Collaboration** and **Optimized Workflow.** This framework emphasizes teamwork, transparency, and a proactive approach to managing challenges.

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Slide-25



The Project governance structure and SOPs created and followed drives the success of any project. The above project governance model is shown to indicate EFKON's internal processes for effective project monitoring and emphasising on the step wise process to be followed for execution of this project.

Slide-26



Proposed Team for Chardham TIMS project:

Build Phase Team

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The proposed Implementation & O&M team is cautiously selected, considering complexity involved, scale of the project and expertise required. The Project Managers proposed for build and O&M are having extensive experience in delivering & operating large scale projects and are certified, PMP professionals. The other team members are SMEs and are picked based on relevant experience and skillsets required to execute and operate day to day tasks and activities required for a large-scale project, keeping focus on safety and traffic engineering aspects.

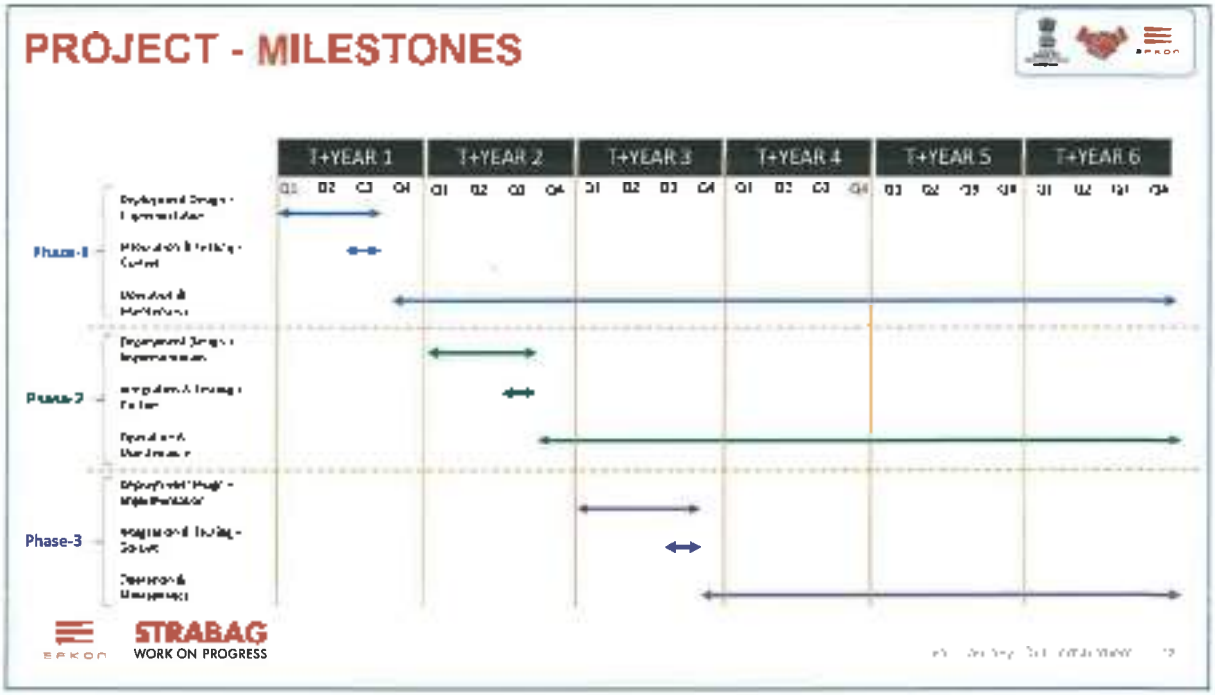
Slide-27



Proposed Team for O&M of Chardham TIMS project: Operations & Maintenance Team

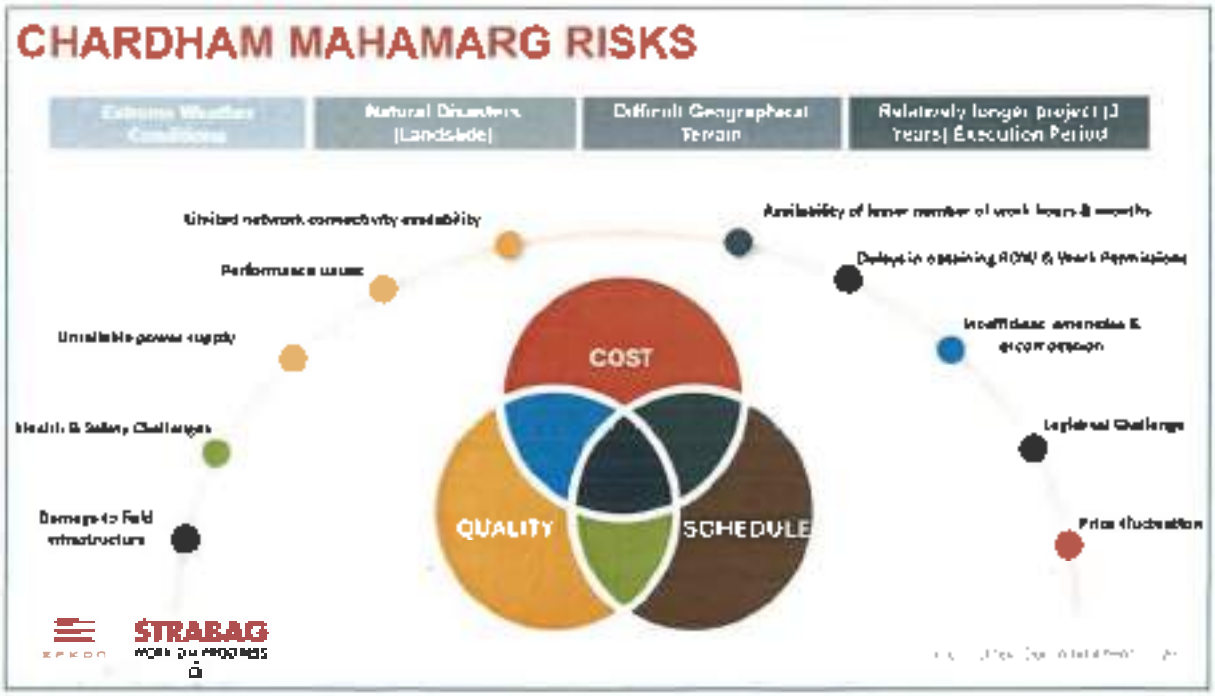
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Slide-28



RFP (Point-4, Page-32, Point 2, d, Page 164) – Project Deliverables (Project Timelines)

Slide-29



RFP (Point 2, e, Page 164):

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As per our survey and study, the cause factors of risks during execution and O&M periods may be: -

1. Extreme Weather Conditions
2. Natural Disasters (Landslides)
3. Difficult Geographical Terrain
4. Relatively longer project (3 Years) execution period

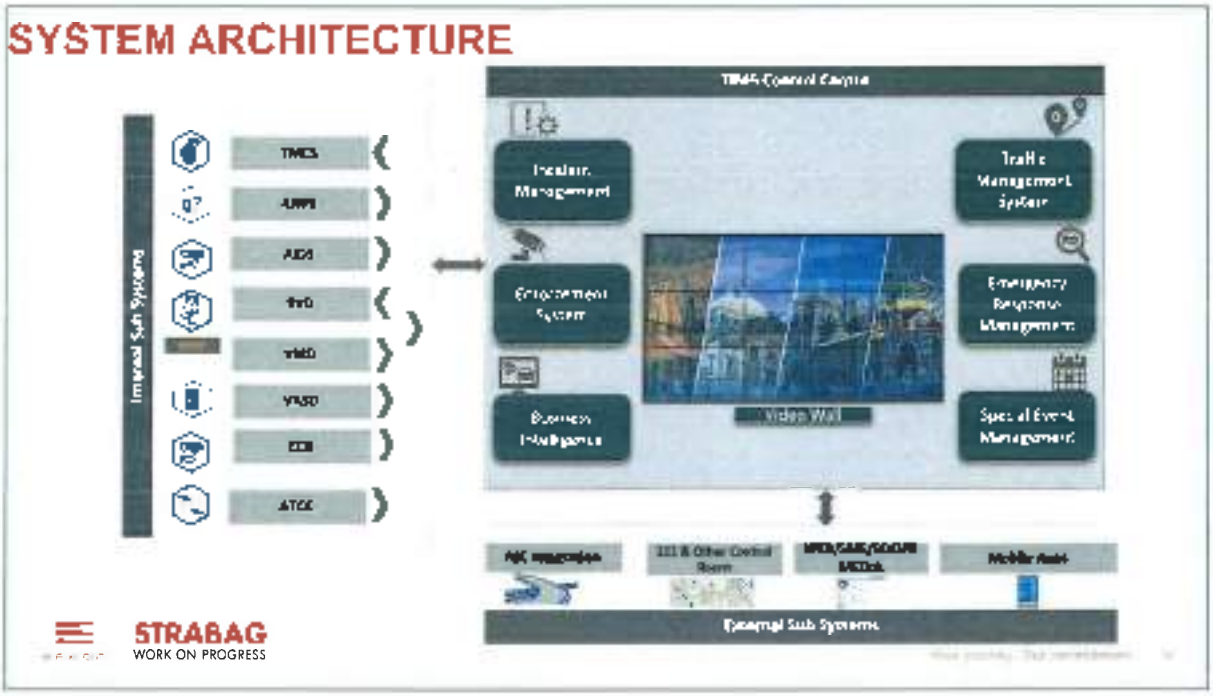
Below table demonstrate our mitigation measures and plan to handle these risks and to meet project deadlines and SLA: -

#	RISK	EXTENT	IMPACT	PROBABILITY	MITIGATION MEASURE
1	Uptime - Availability of services gets compromised	Operations	SLA	High	1 Devising equipment specifications to cope with special environmental conditions.
2	Failure to achieve Performance levels	Operations			2 Specific design, installation, and maintenance procedures to withstand extreme weather conditions and to prevent loss of active infra.
3	Availability of lesser numbers of work hours/ months for field works. Loss of execution phase time	Build	Delay	High (area specific)	1 Planning and rearranging of Project activities (project phases) in-line with Workfront availability window.
					2 Development of Agile manpower mobilization strategy to check manpower cost overrun and to get maximum out of available time window
4	Damages of field infra caused by natural Disasters	Build	Delay	High (area specific)	Adopting compact and restricted field execution strategy instead of expansive strategy, wherein field execution work is taken up in batches with "start to finish" program. This would prevent rework and loss of massive infra material & efforts. Also, this would ensure visibility of work completed considering Go-Live in batches and getting the same recorded with client.
		Build	Financial	High (area specific)	Insurance policy covering landslides, flash floods to avoid financial losses. Effective coordination and timely recording of such instances to Client and follow up for fast settlement of claims.
		O&M			
5	High vulnerability of equipment damage due to unstable passive infra (poles, cantilevers and panels etc.)	Operations	Financial	High (Area specific)	1. Design intervention for passive infra specification finalization specific to hilly area norms And codes.
					2. Design intervention for civil works to withstand near disastrous conditions
6	Unreliable data connectivity between control room and edge locations/nodes	Operations	SLA	Medium	1. Setting up of dedicated fibre network with "foolproof" fallback or protect design.
					2. Using reliable installation methodologies, ensuring protection of infrastructure.
7	Unreliable power supply, frequent power outages	Operations	SLA	High	1. Design intervention for backup power supply.
					2. Design intervention to arrest voltage related issues.
					3. Dealing with centre, monitoring of power supply failures.

8	Unreliable supply chain, delay in equipment supply and location accessibility issues.	Build	Delay	Low	1. All-encompassing logistics plan and construction of a special logistics division (on and off site) 2. Tight coordination with CEM, suppliers and service vendors.
9	Manpower mobilization lapses	Build	Delay	Low	Human resource planning tightly aligned with project requirement and project phases
10	Availability of relevantly skilled manpower	Build	Delay	Low	Comprehensive manpower on-boarding, training and movement plan
11	Performance and motivation level in challenging terrain	Build + Operations	Delay	Low	Skill development and team building programs
12	Health safety hazards specific to working in hilly terrain.	Built	HSE	High	Develop and implement robust emergency response plans, including evacuation routes and access to medical facilities
13	Potential damage to flora and fauna during execution of field works	Built	Env	Low	Tie up with NGOs and foundations involved in environmental conservation programs and awareness programs.
14	Coordination with multiple stakeholder/ agencies	Build	Delay	High	1. Early engagement of liaison team to get head-start. Involvement of authorizing stakeholder in design phase
15	Stringent access conditions.				2. Zone-wise and agency wise division of liaison team. Transparency & Tight coordination with authorizing agency ground staff.
16	In absence of tender bound manpower plan, Achieving Right Mix and scale of Manpower during operations phase	Operations	SLA	Low	Early assessment of right blend of manpower required.
17	Completeness of BoQ to comply functional and operational requirements	Operations	SLA – Financial	Low	Emphasis on design during bidding stage. Stakeholder discussion with Project team and Design team to consider all items required.

Slide-30

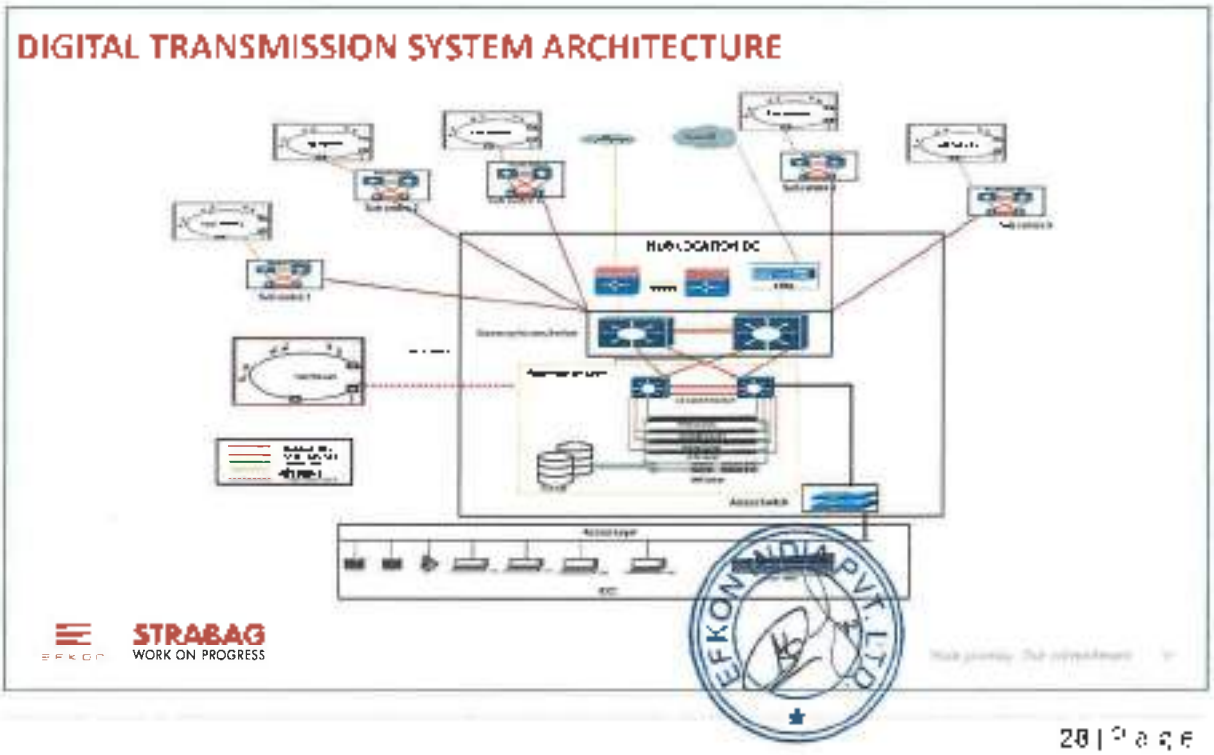
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RFP (Point 2, c, Page 164):

Proposed **System Architecture** for the Char Dham Mahamarg TIMS (Traffic Incident Management System) project integrates advanced internal and external subsystems to ensure seamless operations. This shows a broad level system architecture and design proposed as required in RFP Hub Control centre at Dehradun and spoke control rooms at district levels. All spoke control rooms, including district level control rooms shall be connected with the hub control centre either over existing ISP's network or else over the dark Fiber network, laid by EFKON.

Slide-31



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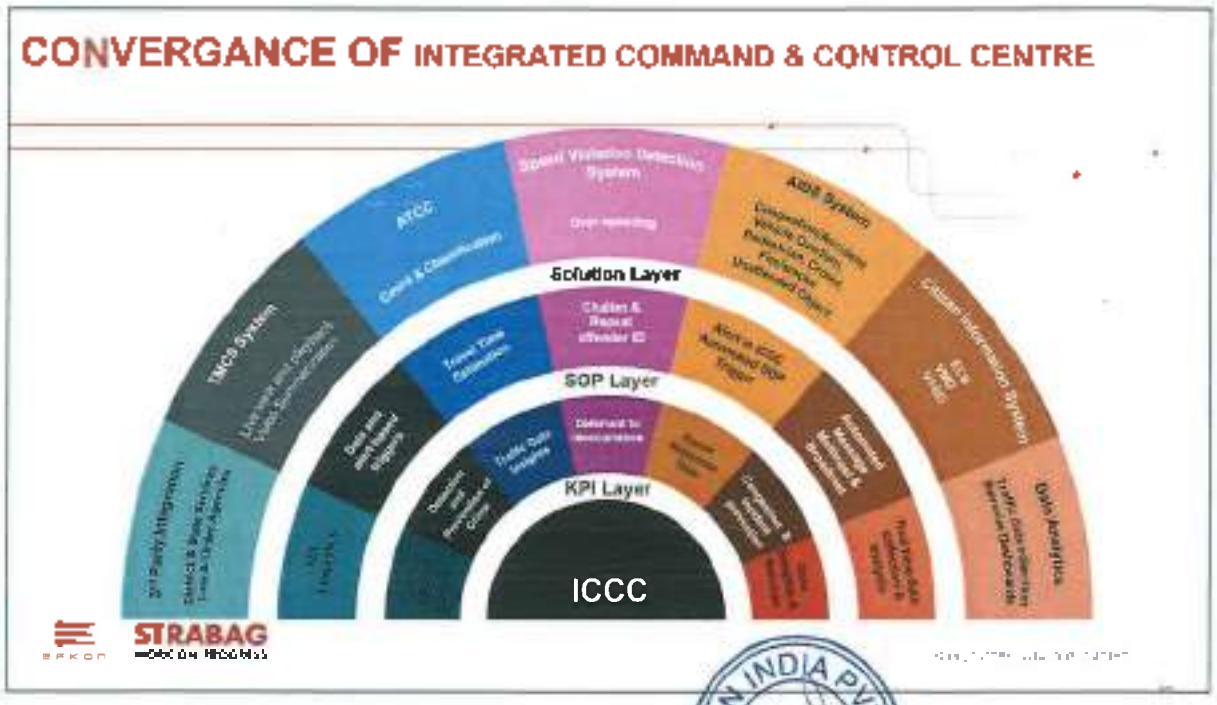
RFP (Point 2, a & c, Page 164):

Digital Transmission system architecture depicts the layout of proposed network infrastructure i.e. how hub command control centre, spoke-command control centres and other control rooms (e.g. 112, 1033, disaster, Police, Tourism etc.), field locations/equipment and data centres will get connected with each other.

The key onvisaged goals of TIMS project for Chardham project is to information sharing among all departments which shall help in emergency for ***taking preventive measures, post incident actions and planning of traffic on chardham Mahamarg.***

During our intensive survey conducted before participating for this opportunity we have observed that the two main aspects of success and failure of this project are Power and network as the terrain is very secluded, and availability of Power and network is understandably not up to the standards. The availability of Solar power is also very limited due to forest coverage and positioning of hills and these natural challenges pose limitations to availability of ISP's network as well. Taking cognizance of this fact, we have carefully designed the power and network infra for each location based on the availability of power and network and accordingly have proposed a hybrid power and network solution for this project to ensure availability of the deployed solution during hour of need, when the things matter the most.

Slide-32



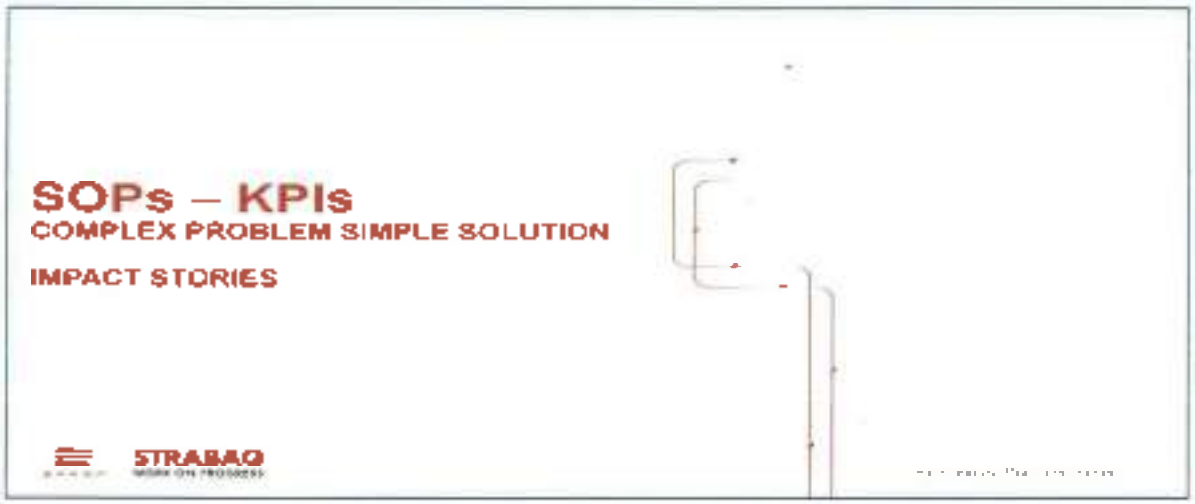
Flexible Central software for Future Third Party Integrations.

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RFP mandates the proposed central software should be owned by the solution provider, proposed inhouse Central Processing System or Integrated Command Control Centre application is a structured three-layer solutions and is flexible enough for future Integrations as and when required by the customer to share and integrate third party solutions and Data base.

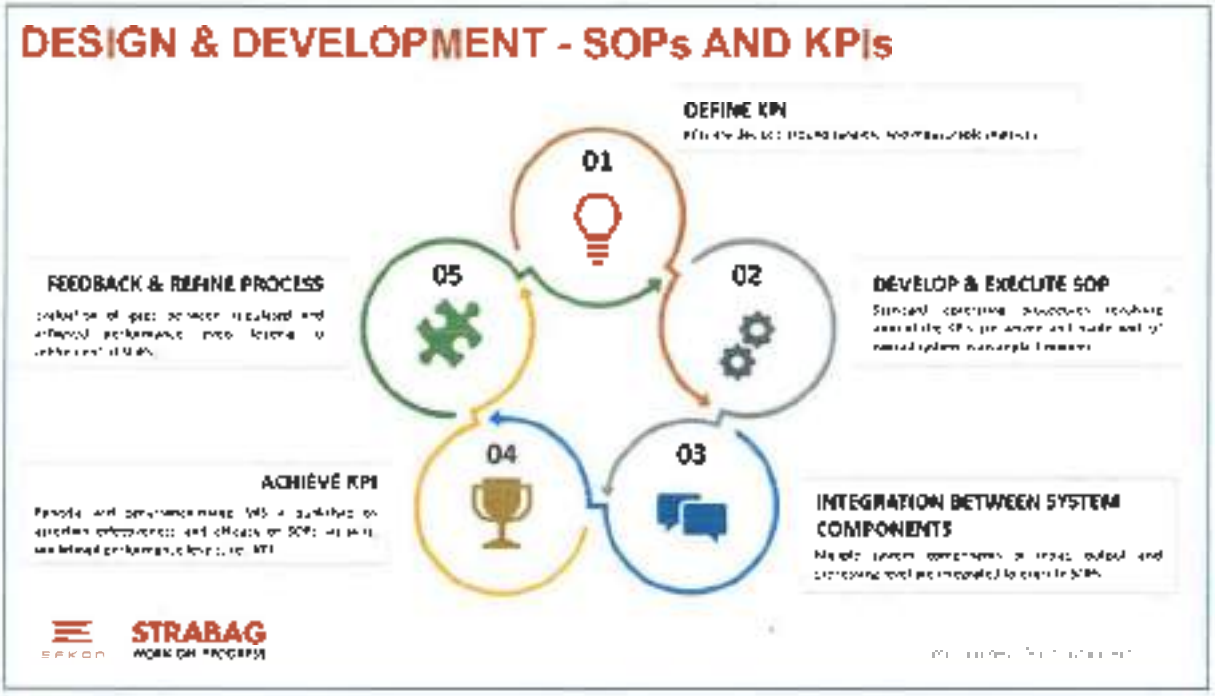
1. The first layer is **SOLUTION layer** shows the various **solution** that are required in **CHARDHAM MAHAMARG** are **integrated with a central processing system.**
2. The second layer shows the **system driven SOPs** with respect to each individual solution. All these SOPs are automated and require no manual interventions to act (other than validate).
3. The third layer is the **KPI layer** where all the performance matrices of each solution and SOP is measured, and insights are generated.

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Slide-34

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RFP (Point 7, Page 7):

EFKON's system is structured to optimize Key Performance Indicators (KPIs) and Standard Operating Procedures (SOPs) for improved efficiency and road safety. The **KPI Layer** focuses on gathering traffic data insights, congestion prevention, and metrics to assess system performance. This data forms the backbone for continuous improvement.

The **SOP Layer** automates responses to incidents, reducing action time and improving response speed. By triggering pre-defined alerts and actions, it aims to prevent recurring issues and streamline incident management processes.

Overall, the system enhances the **Incident Management System (IMS)**, ensures **road user safety**, and improves the **travel experience** for CHARDHAM MAHAMARG by integrating real-time data, automated workflows, and coordinated responses.

Throughout project tenure this cycle must be repeated to design, develop, train, and modify the system as per the varying needs and objectives of the various stakeholders.

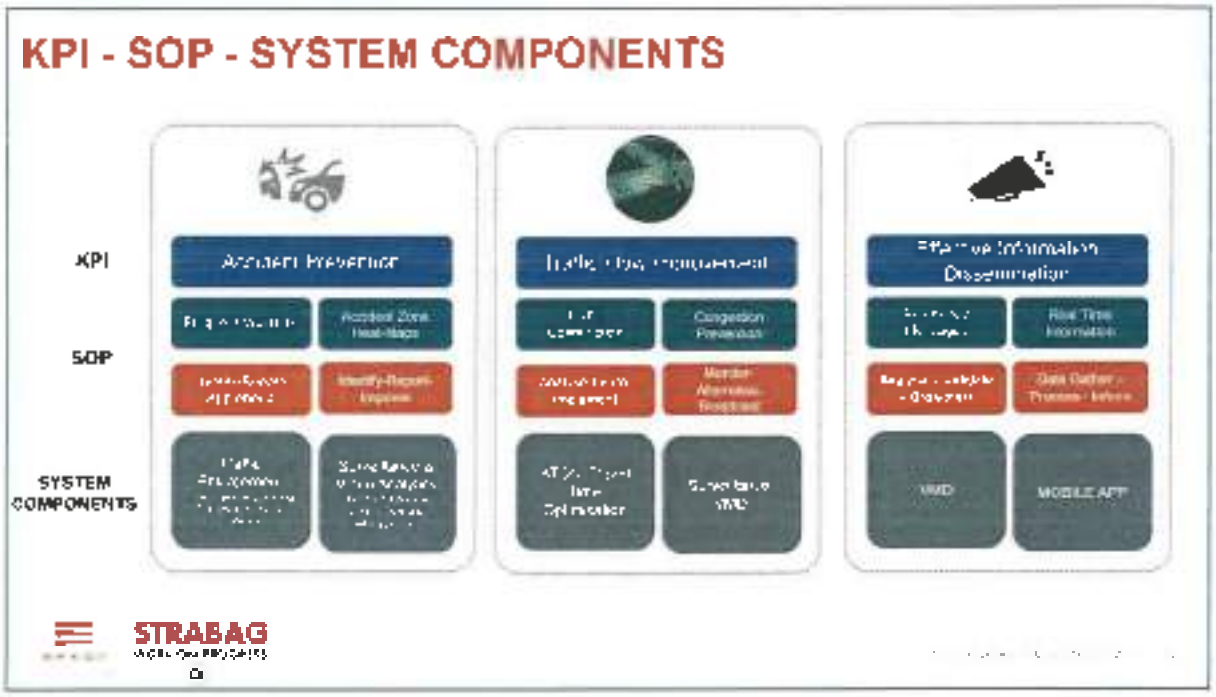
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Slide-35



Quantif cation of problems.

Slide-36



RFP (Point 7, Page 7):

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TIMS application along with integrated solution will be helpful in achieving KPIs to ensure road user safety, improved emergency response time and enhance road user experience through real-time data analytics, business intelligence and automated process.

Like this, EFKON INDIA has deployed its' AIDS system and Enforcement System in multiple projects. Below is the summarised data of these solutions and projects: -

1. **AID System (Key Projects)**

Project	NOIDA	VSCL	MTHL
Nature	**No. of Accidents**	**No. of Accidents**	**No. of Accidents**
Fatal	4	0	0
Major	52	9	2
Minor	81	8	4
Non - Injurious	35	1	28
Grand Total	**172**	**18**	**34**

2. **Incident Detection & Management Data – MTHL Project**

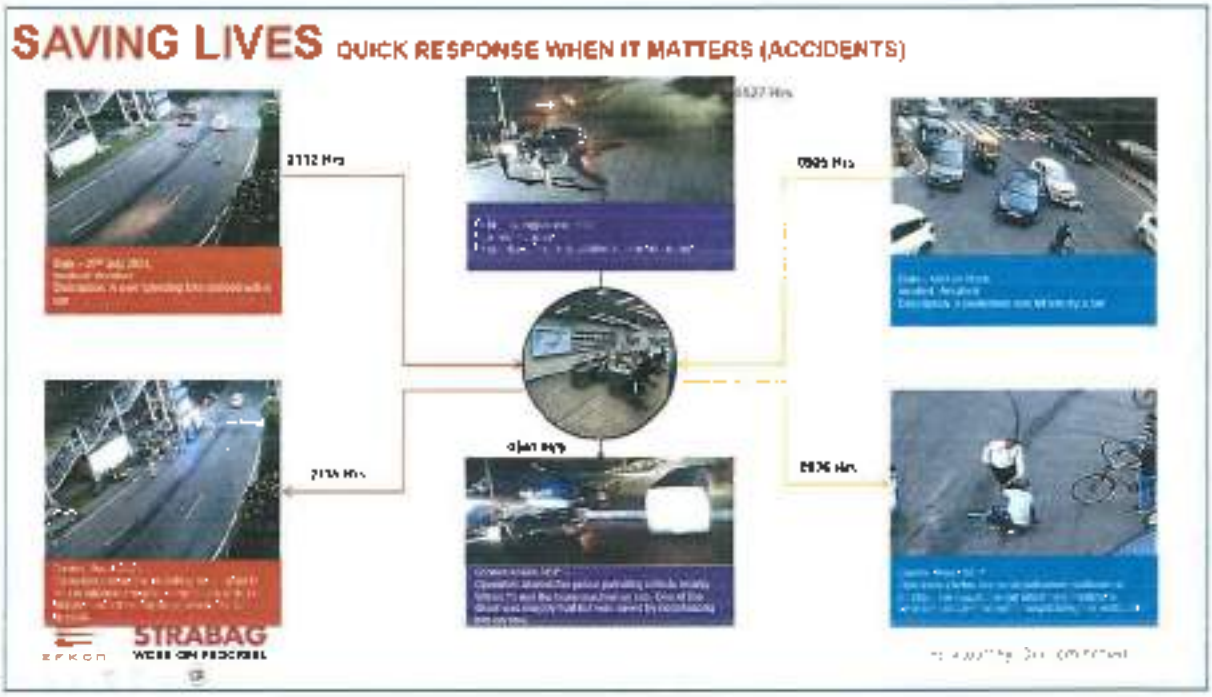
#	Incident	Jan'2024	Feb'2024	Mar'2024	April'2024	May'2024	Jun'2024	Jul'2024	Aug'2024	Sep'2024	Oct'2024	Nov'2024
1	Human Crossing Road	5358	20982	17891	9279	5884	4714	2172	12702	12448	9603	6060
2	Vehicle Stopped	3939	4357	2376	4902	1006	27431	8642	32788	31827	24494	25609
3	Wrong Way Detected	26944	18080	6464	3032	7954	3693	3353	9142	8860	14923	13856
4	Fire Detected	243	440	589	126	0	0	0	0	0	0	0
5	Abandoned Object Detected	Disabled	Disabled	Disabled	Disabled	Disabled	164	105	114	105	46	672

3. **ENFORCMENT SYSTEM (key Projects)**

Project	No. of challans generated till date
VSCL	3,14,104
ASCL	5,46,160
NOIDA	22,23,229
TSCL	2,07,034

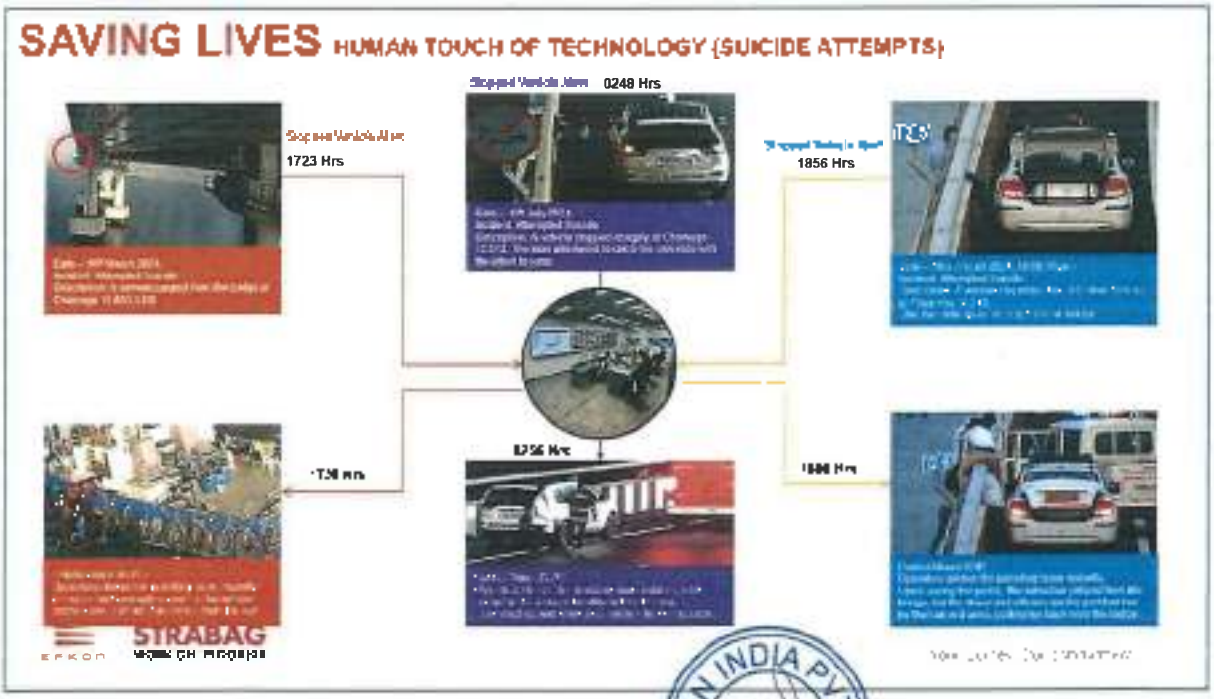


Slide-37



Case Studies of similar projects implemented like TIMS Chardham: During accidents, it is important to provide Emergency Response Services in the golden period to avoid any mis happenings. EFKON India aims to capture all such incident and provide immediate support happening in the vicinity of cameras & other sensors, through system's automated process (SOPs).

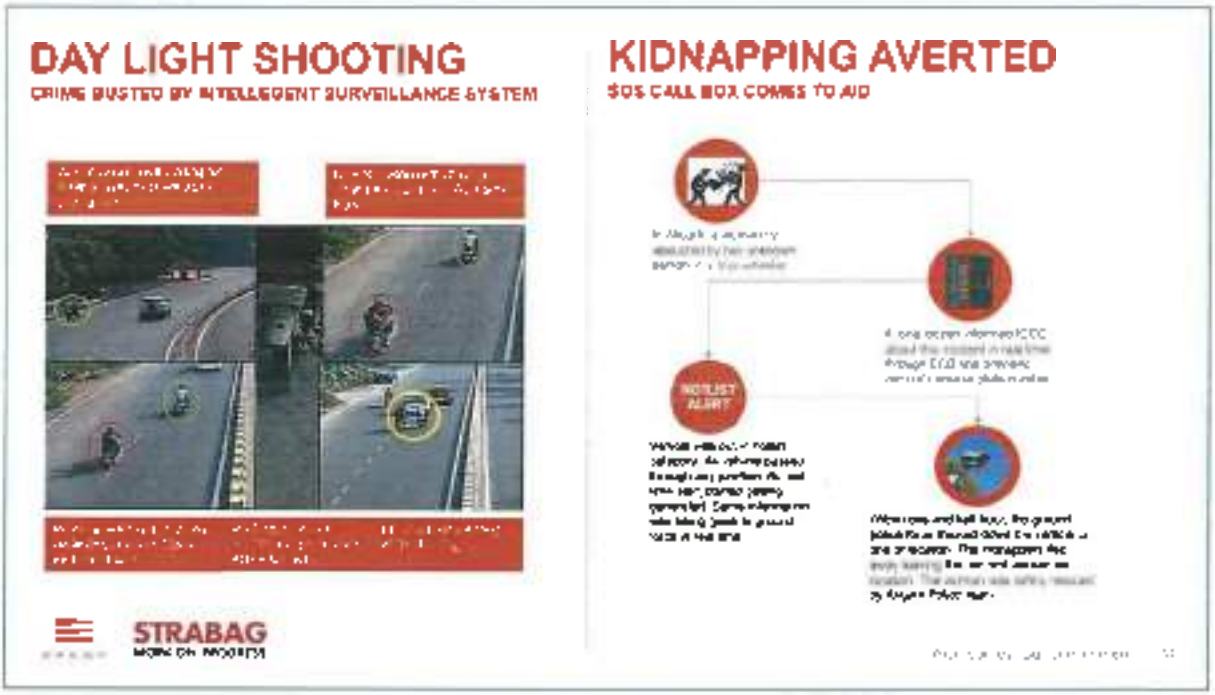
Slide-38



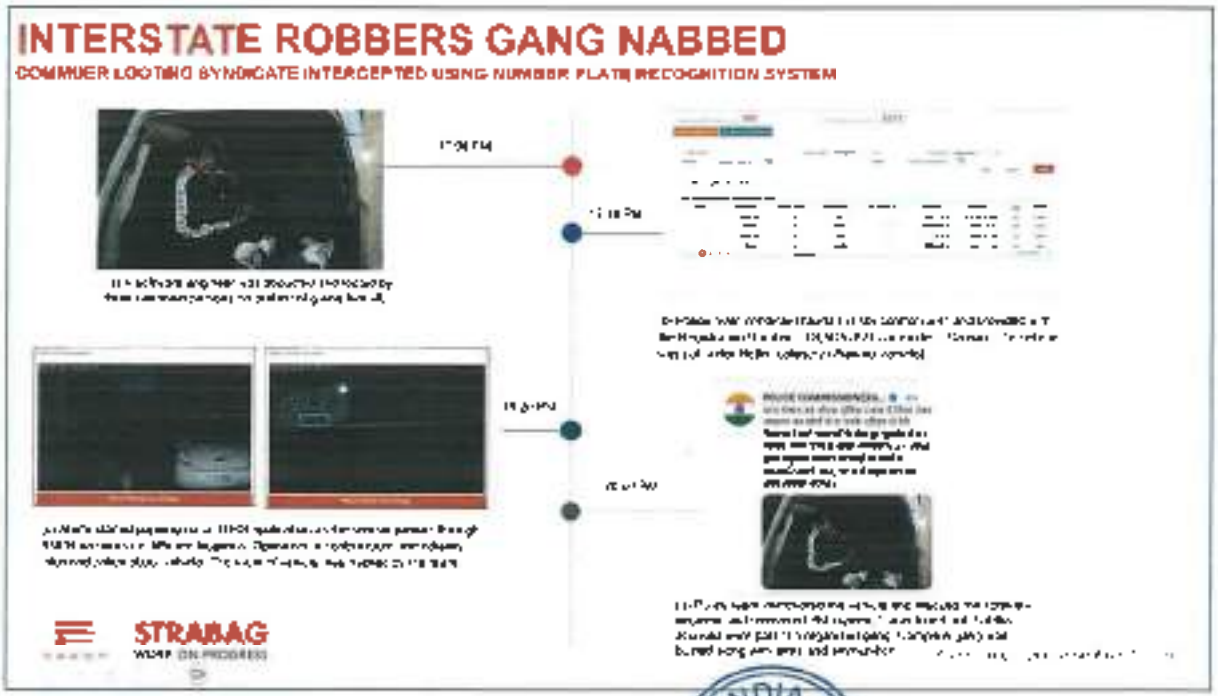
Case Studies of similar projects implemented like TIMS Chardham: We have multiple examples and POC results to demonstrate the impact of our deployed similar solutions as

asked in TIMS project for Chardham, some of the impact stories are shown in above slide. These all examples show the impact of the quick automatic detection of the incident and quick response to save lives. We can also present live POC of our existing projects and solutions, if required by the partners.

Slide-39



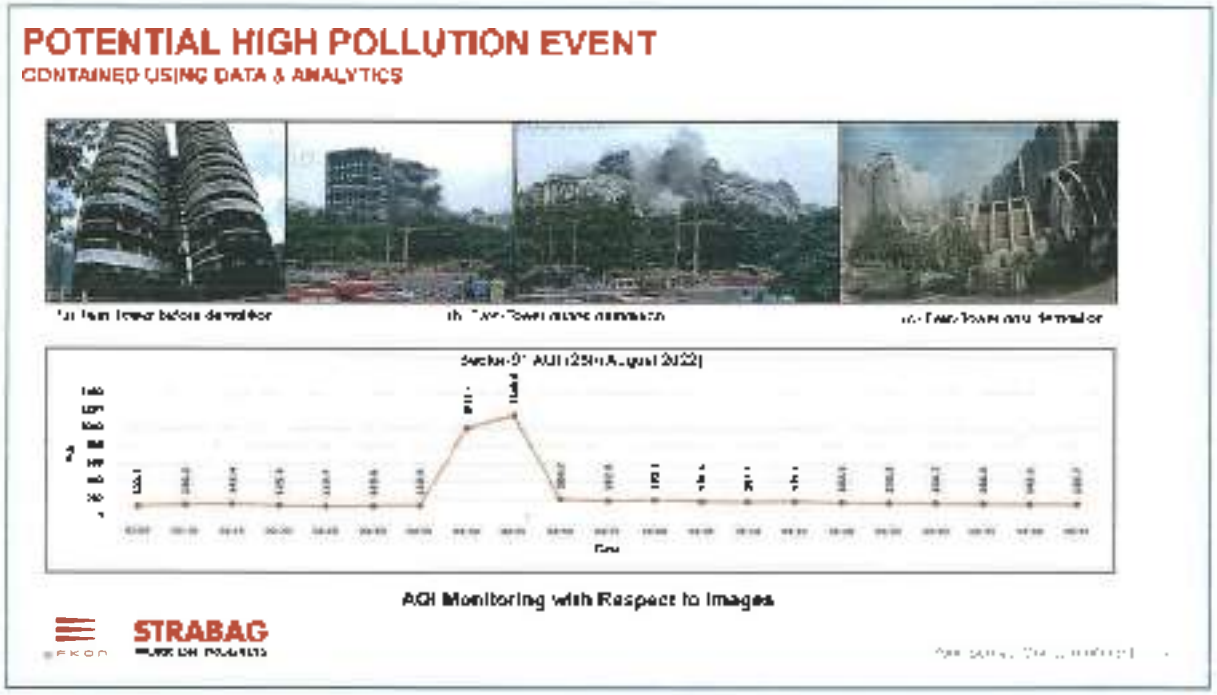
Slide-40



Case Studies of similar projects implemented like TIMS Chardham: Post incident analysis is the key to prevent mis happenings. It is understood that for any TIMS solution the major

stake holders are RTO and Police departments. Our all solutions as asked in TIMS project of Chardham are tightly integrated and honed over the years to suite the requirements of these departments and can provide necessary testimonials to these departments to help them in preventive planning and corrective actions.

Slide-41

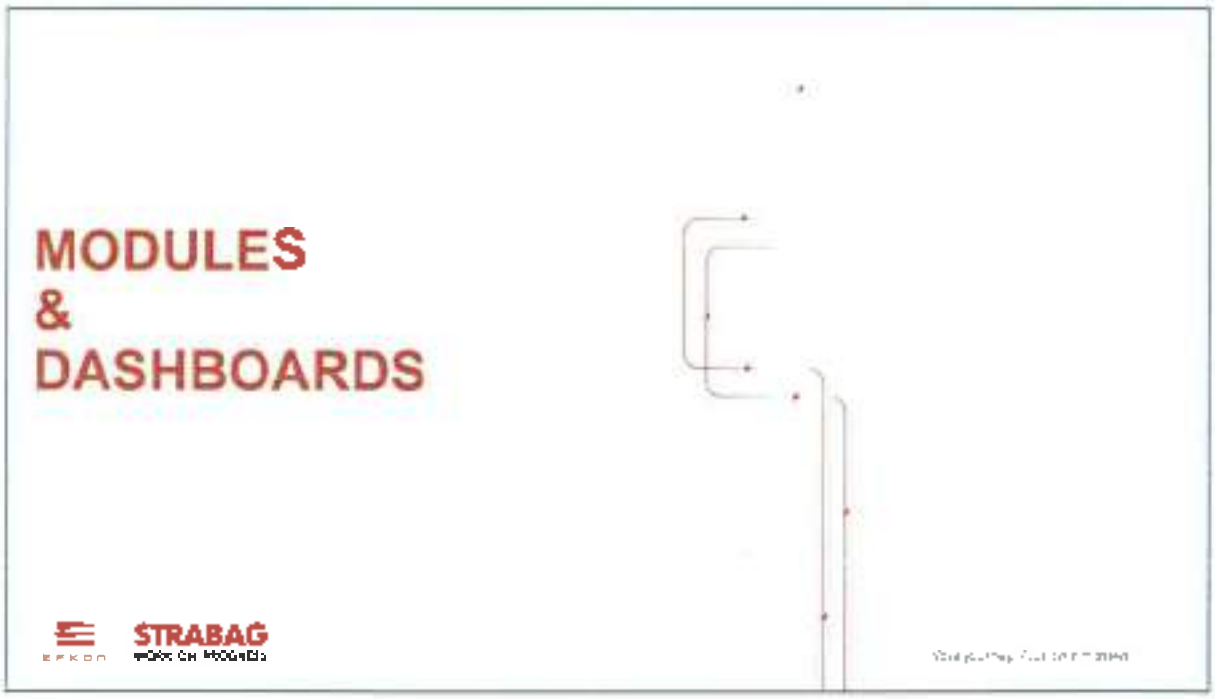


Example of using Environmental Sensor to monitor Air Quality and keeping the check on environment.

Slide-42

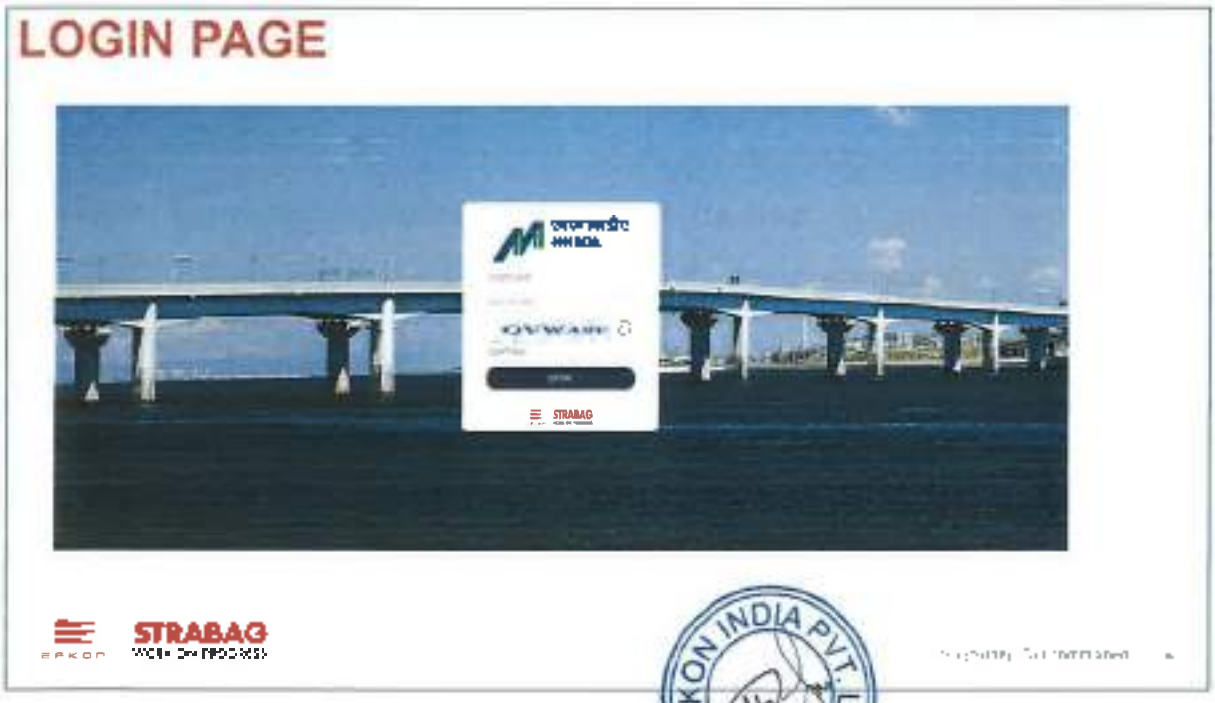


Slide-43



RFP (Point 2, a & c , Page 164): POC of the proposed latest Inhouse Central Software of EFKON for TIMS Chardham.

Slide-44



User based login feature with specific roles and responsibilities in EFKON's Central Processing System

Slide-45



Integration of GIS map layer and plotting all equipment on location with **EFKON**'s Central Processing System. This shows system capability of integration with any 3rd party map interface.

The equipment are shown on the layers based GIS map, with status of connectivity to each device. At any point of time, an operator can view if any device goes down and take appropriate steps to restore the same.

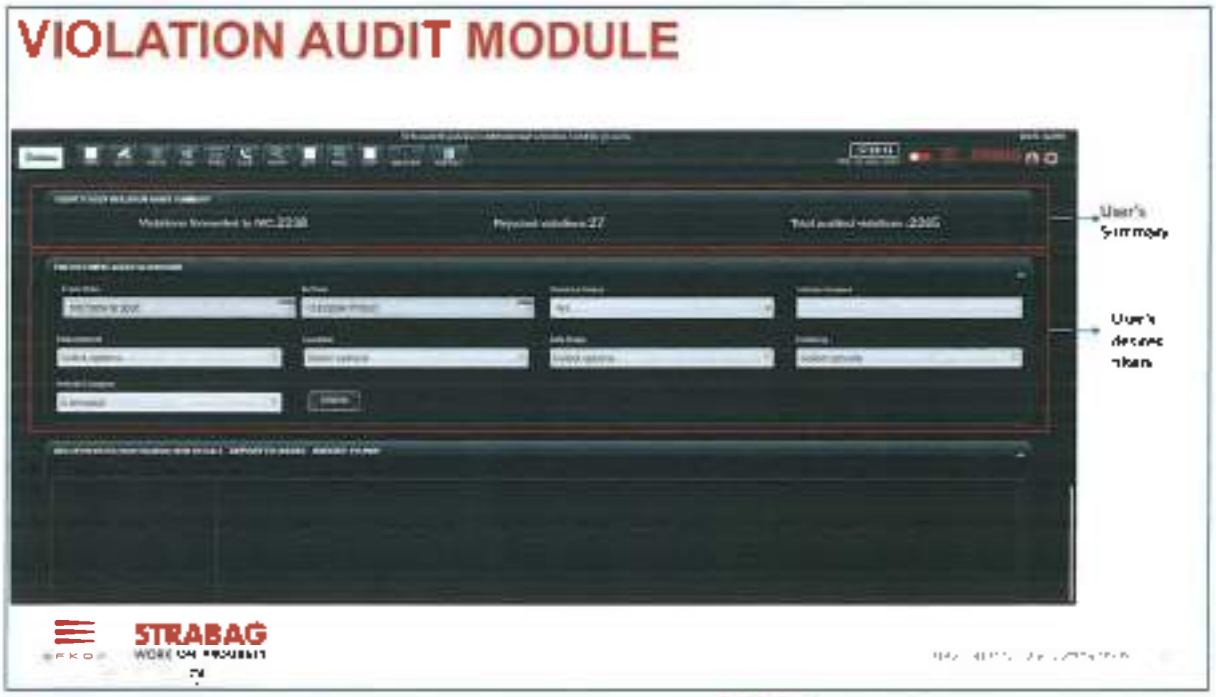
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Slide-46



Video Management System and cameras are tightly integrated with EFKON's Central Processing System through APIs and SDKs. Through integration, system not only allows view feeds of cameras but also allow the functionality to control them.

Slide-47

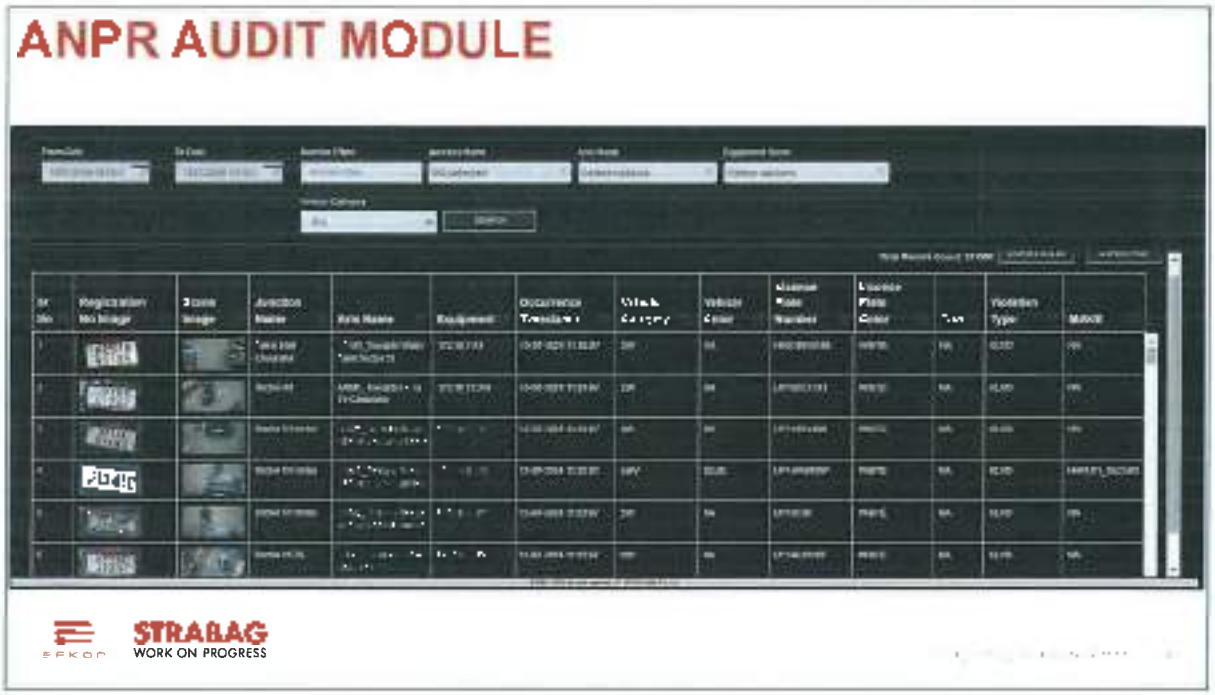


Through Violation Module, the violations can be audited, and violators can be penalised accordingly. Various filters are provided to search and process the violations.

Slide-48



Slide-49



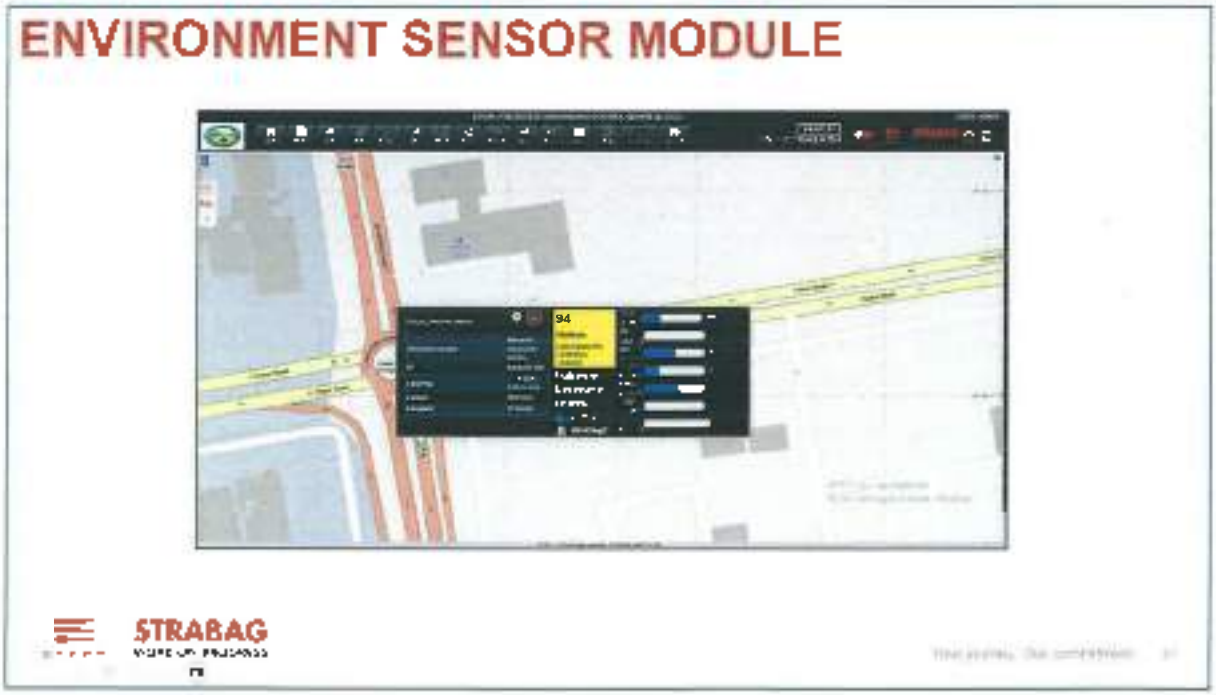
EFKON's Central Processing System gathers data from all ANPR cameras and keep the records of all vehicles, vehicle images, license plate image, OCR and other metadata of vehicles passing through camera's field of view. This data is critical for post incident analysis.

Slide-50



Real time Hotlist vehicle alert. User based and system driven SOPs to act on generated alerts. Any vehicle of interest can be quickly found in the database with the help of this module.

Slide-51



EFKON's Central Processing System is integrated with Environment Sensor which allows to collect the all-weather related data and generate insights and alerts in case of any threshold breach. System generates an automated SOP to notify all concerned stakeholders regarding the raised alerts.

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EMERGENCY CALLING BOX MODULE



EFKON STRABAG WORK ON PROGRESS

Call alerts from ECB directly lands on EFKON's Central Processing System. An alert is raised showing notification of call from ECB. User can pick the call directly from main screen and even can make calls from control room to site. This module is helpful during emergency to trace the stranded caller and check the details of the incident location with the help of other sensors. The call recording & playback feature is available in this module, wherein the calls can be reviewed and records can be maintained. This module is also integrated with the PA system, for making announcements.

Slide-53

INCIDENT MANAGEMENT SYSTEM MODULE



EFKON STRABAG

RFP (Point 7, Page 52)

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Incident Management Module is integrated with EFKON's Central Processing system. All the automatic incident alerts are displayed here, and user can also generate the manual events.

The application drives predefined SOPs based on the nature of the incident to notify concerned stakeholders, other 3rd party agencies like 112, 1033 control room. User can also track and manage the lifecycle of any event.

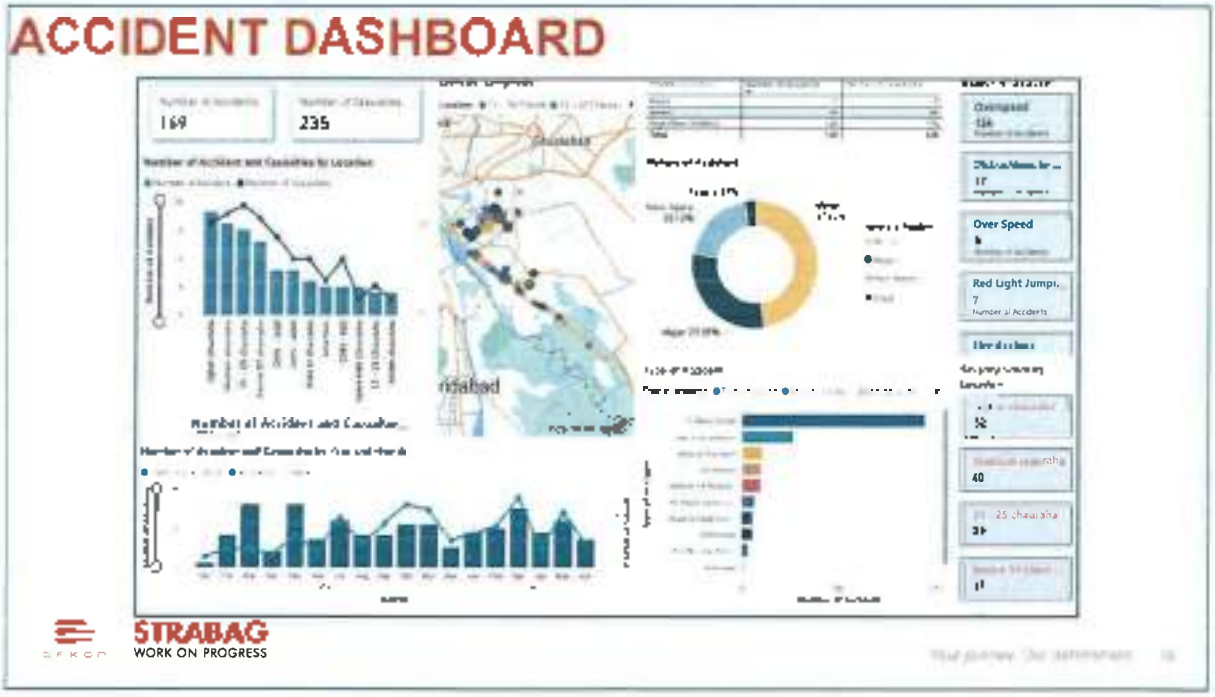
Slide-54



Network Monitoring System shows the status of all field and control room equipment. User can easily identify the up/down devices, cause and time since device are unavailable. Based on insights user can act for preventive and routine maintenance. This module also helps in monitoring SLA in large projects.

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Slide-55



Summarised Dashboards for all type of accident captured within the vicinity of installed equipment of project. The summarised data give useful insights based on various parameters and support in decision making for any technological or infrastructure interventions to reduce accidents.

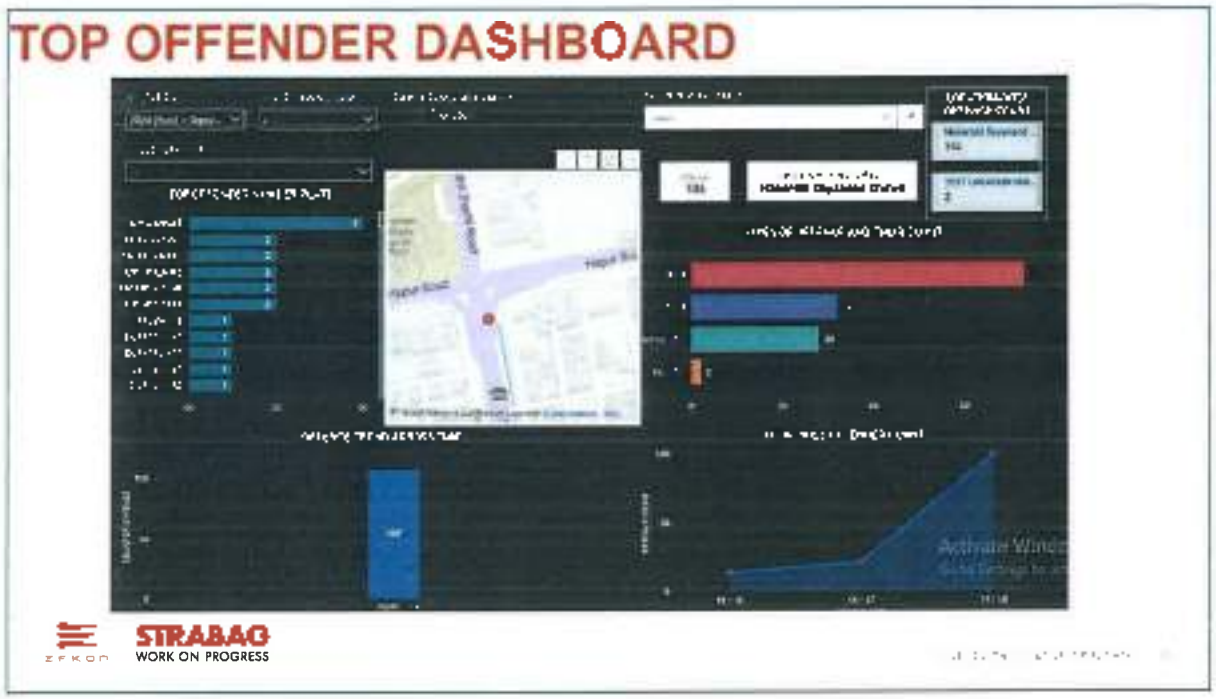
Slide-56



Summarised Dashboards for all type of incident captured within the vicinity of installed equipment of project.

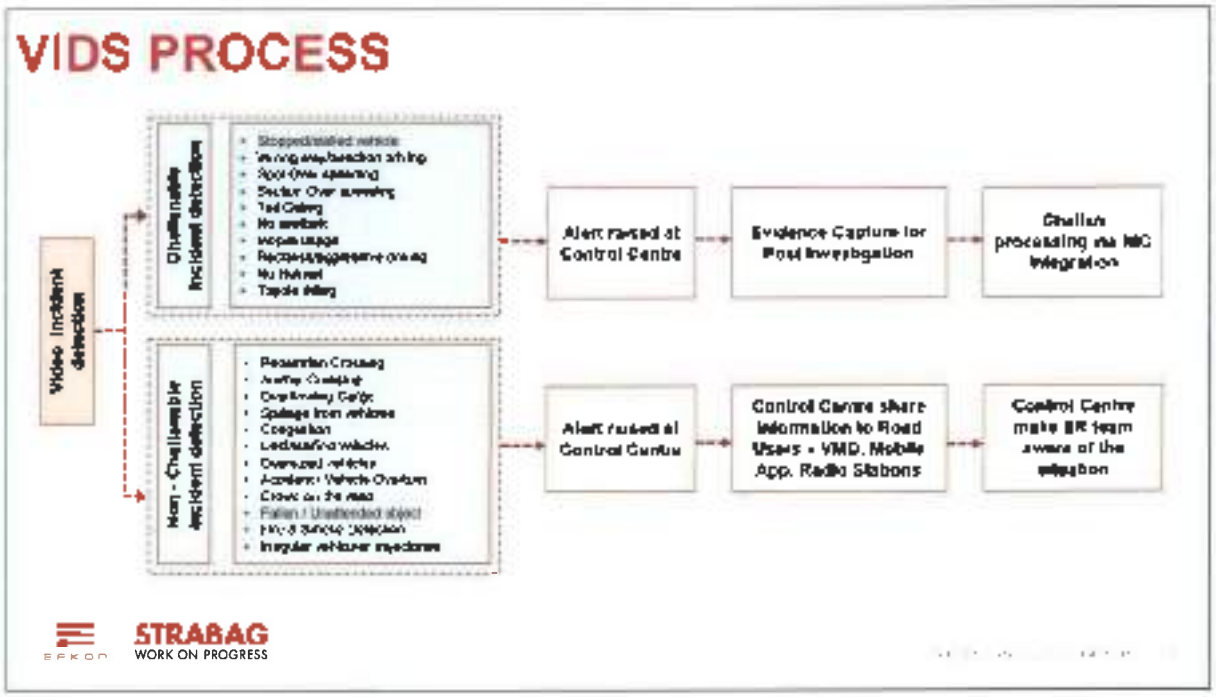
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Slide-57



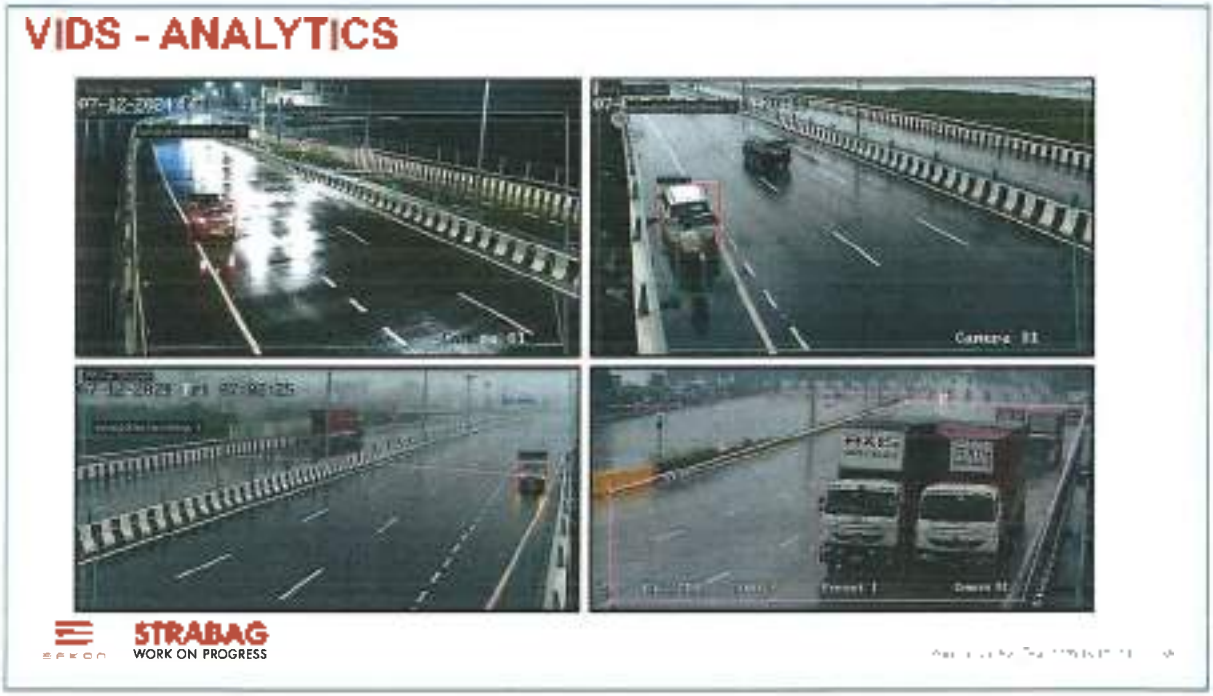
Summarised Dashboards of offences and top offenders and top violating areas.

Slide-58



VIDS system or Accident & Incident Detection System – shows the methodology of how incidents are detected, reported and actions are taken in view of minimising the risks associated with events. Following is the workflow method being used in various implemented cities and highway projects by Efkon. This is like what has been asked in Chardham Mahamarg project and is relevant to use cases mentioned in RFP.

Slide-59



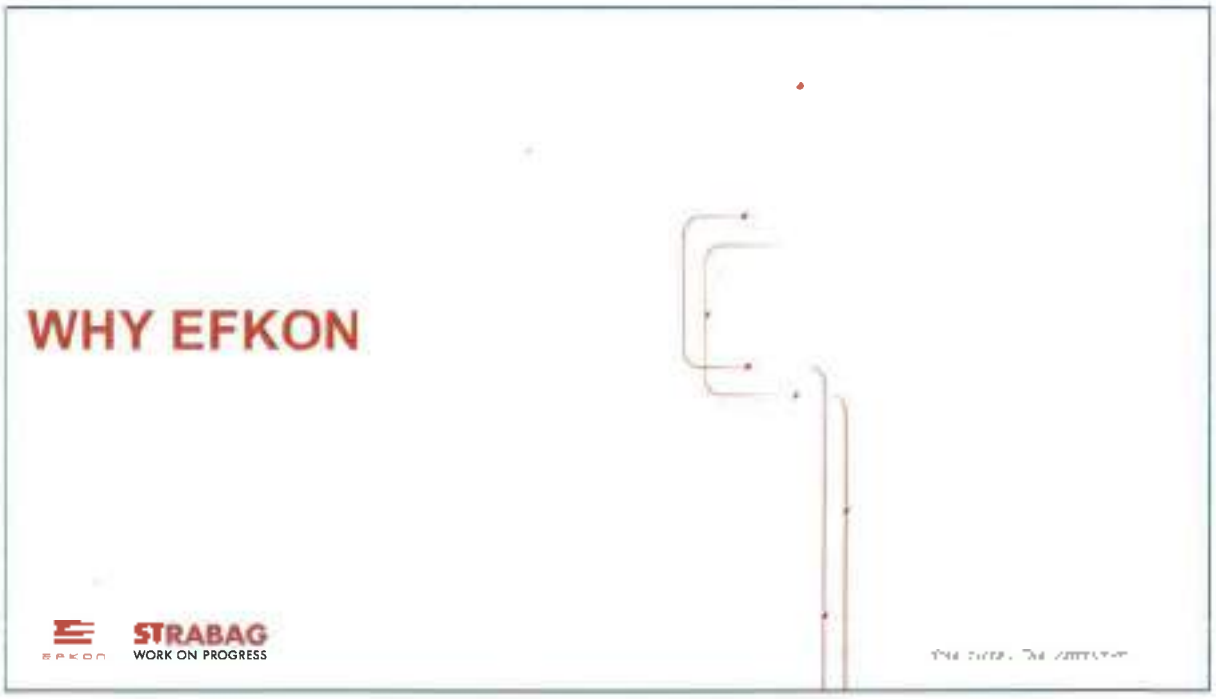
Slide-60



Sample Screenshots of automatic Incident detection – Stopped Vehicle, Wrong Way Moving Vehicles, traffic Congestion, Human Crossing Road.

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Slide-61



Slide-67

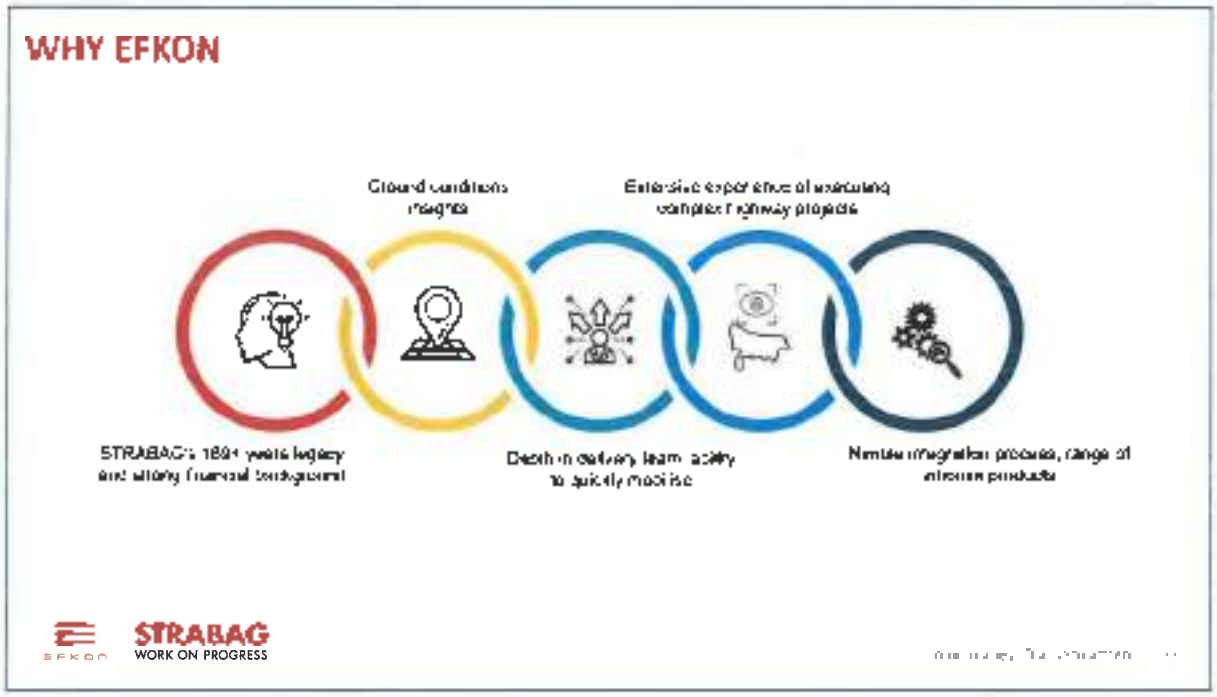


RFP (Point e, Page 7)

RFP talks about future integration of landslide solution during the term of this project. Efkon India's in-house solution for detecting landslides and predicting rainfall plays a crucial role in proactive incident management. By generating real-time alerts, the system ensures that relevant stakeholders, such as emergency response teams and local authorities, are notified immediately. This facilitates swift action to mitigate potential hazards, thereby enhancing overall safety and preparedness, especially on critical routes like CHARDHAM MAHAMARG. **Our**

proposed central software solution is also capable of integration and sharing data with any other third-party solution, as and when required.

Slide-68



EFKON stands out due to its association with STRABAG (Parent company of EFKON and Consortium Partner), boasting over 189 years of legacy and financial strength. It offers deep insights into ground conditions and has extensive experience in executing complex highway projects in similar terrains. With a skilled delivery team that can quickly mobilize, Efkon ensures efficient project execution. Additionally, its nimble integration process and wide range of in-house products provide comprehensive and adaptable infrastructure solutions.

EFKON has an extensive experience in implementation and operation of similar projects which shall be a great advantage for the stakeholders while implementation, operation, and meeting SLA.

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Slide-69

RECOGNITIONS

- Our Advanced Traffic Management System (ATMS) for Noida – Greater Noida Gautam Buddha Expressway was awarded as "**Best Intelligent Transport System Project**" by MoUD
- The Confederation of Indian Industry (CII) has ranked **Efkon India amongst Top 25 Innovative Organizations in India** for its innovation-driven solutions
- Efkon India recognized as one of **Asia's Most Trusted Companies 2019** in the **Electronic Tolling, Transport Management Systems and Solutions** category
- EFKON India was awarded the **Rising Star Award Security 2019** in Honeywell Connect 2020 – Annual Distributor Conference
- Business Leader Awards 2021 - "**Best Project in Building Smart Cities**" (Aligarh) and "**Smart Urban Traffic Initiative**" (Varanasi)
- **Certificate of Appreciation** from Varanasi Smart City Limited in recognition and support provided to the VSCL project
- **Asia's Greatest Brand 2020-2021** award
- **EFKON India Recognized as Future Ready Organization** for 2021 by Economic Times.



STRABAG
WORK ON PROJECTS

Slide-70

ADDRESS

CONTACT NUMBERS

EMAIL ADDRESS

THANK YOU

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Relevant Data from Live EFKON's Key Projects

in India

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Various solutions deployed in the live projects of similar nature (Only key projects are shown here)

Project Scope	UOM	Varanasi Phase 1	Varanasi Phase 2	NOIDA ISTMS	Noida-Greater Noida expressway
ANPR	Cameras	126	108	693	24
ENFORCEMENT SYSTEM	Locations	21	0	82	24
SPEED VIOLATION DETECTION SYSTEM	Locations	8	0	4	24
SURVEILLANCE SYSTEM	Locations	253	2249	474	138
VIDEO INCIDENT DETECTION SYSTEM	Licenses	0	8732	0	15
EMERGENCY CALLING BOXES	Locations	0	0	82	24
VARIABLE MESSAGE SIGNBOARD	Locations	13	0	20	13
PUBLIC ADDRESS SYSTEM	Locations	51	0	82	0
ENVIRONMENTAL SYSTEM	Locations/ Nos.	15	0	25	1
AUTOMATIC TRAFFIC COUNT & CLASSIFICATION	Locations/ Nos.	77	0	40	4
ADAPTIVE TRAFFIC CONTROL SYSTEM	Locations/ Junctions	21	0	40	0
OFC	Km.	0	450	170	60
ICCC APPLICATION	(YES/NO)	Yes	Yes	Yes	Yes
GIS	(YES/NO)	Yes	Yes	Yes	Yes
HELPDESK	(YES/NO)	Yes	Yes	Yes	Yes
NETWORK MONITORING SYSTEM	(YES/NO)	Yes	Yes	Yes	Yes
DATA CENTRE	(YES/NO)	Yes	Yes	Yes	Yes
CONTROL ROOM SETUP (CIVIL & INTERIOR)	(YES/NO)	Yes	Yes	Yes	Yes
CONTROL CENTER OPERATIONS	(YES/NO)	Yes	Yes	Yes	Yes

VIDEO WALL	(YES/NO)	No	Yes	Yes	Yes
NIC INTEGRATION FOR ECHALLAN	(YES/NO)	Yes	Yes	Yes	Yes

- Highlighted cells show the solutions which are also part of the TIMS Chardham project.

System Accuracy for the relevant solutions asked in TIMS Chardham Project

Type of Incident	**Incident**	**System Accuracy (%)**
Challanable Incidents	ANPR	94
	Wrong Direction	97
	Stalled/Stopped Vehicle	96
	Red Light Violation	95
	No helmet in 2W	93
	Triple riding in 2W	89
	Spot speed camera based	99
	Section Speed	99
Non-Challanable Incidents	Pedestrian Crossing	98
	No Parking	94
	Fog/Smoke/Smog	75
	Animals	97
	Vehicle Congestion	88
	ATCC(Count)	98
	ATCC(Classification)	95

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Sample Challan Copies from existing live projects

Spot Speed Challan – NOIDA ISTMS



RFP (Point 7.1.4.1.2, Page 54)

Sample Speed challan shows tight integration of EFKON's Central Processing System with NIC system for generating E-challan to offenders who violate the traffic rules.

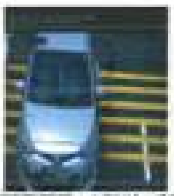
Section Speed Challan - MTHL

[illegible], 7:53 PM Print Challan Page

परिवहन विभाग महाराष्ट्र
Transport Department Maharashtra
(मोटर वाहन अधिनियम, [illegible] / [illegible] आणि नियम / [illegible])
([illegible] Act, 1988 and Rules made thereunder)

कार्यालयाचे नाव Office Name : PANVEL





(https://itmschalan.parivahan[illegible]Photo_2/MH/S[illegible]
SPEED/MH4285 1.jpg) SPEED/MH4285 2.jpg) SPEED/MH4285 1.jpg)

चलन तारीख/Challan Date : 30-03-2024 12:33:58

वाहन वर्ग Vehicle Class:	Motor Car(LMV)	चलन क्रमांक/Challan no.	MH4257345240482873663
वाहन क्रमांक/Vehicle no.	MH02CP[illegible]21	चेसिस क्रमांक/Chassis no.	MALB[illegible]51BLC[illegible]
पुस्तक क्रमांक/Book no	——	इंजिन नंबर Engine no / Motor no	G4LAC[illegible]441[illegible]
मालकाचे नाव Owner's Name:	POOJA PARDESHI		
फॉर्म क्रमांक/Form no.	——		
Violator Contact No/Violator's Contact No.:	3930093728		
मालकाचा पत्ता Owner's Address	[illegible] NOBLE HOUSE OR BATLIWALA ROAD, PAREL, MUMBAI, Mumbai-400012		
चालकाचे नाव Driver's name	——		
वडिलांचे नाव Father's name	——		
Age	——		
[illegible] DL no.	——	वैधता Validity	——
घटनास्थळ Place of incident	MTHL Chainage [illegible]		

जप्त केलेली कागदपत्रे Document impounded:
No Document Impounded

गुन्हा [illegible] Offences Charged with:-
1: Driving with excessive / overspeed than prescribed LMV, owners responsibility ([illegible] [[Fine - 2000]
[Speed Limit - 100] [Actual Speed - 115]
[illegible] - 2000/-
Penalty specified against above offences charged (in numerals and words): 2000/-
Rupees: Two Thousand Rupees only
शेरा / Remarks: Not Applicable
(Total amount of compounding fine and taxes with 100% penalty for other states without permit vehicles calculate at the time of investigation of offences.)
[illegible] (तारीख) .... [illegible]
The temporary authorization of impounded document shall be valid till (date).......... or till the validity of the original document, whichever is earlier.

For Online Payment

https://echallan.parivahan.gov.in/index/accused-challan

स्वाक्षरी / Signature : ____________
अधिकाऱ्याचे नाव व स्वाक्षरी/Name and signature of Officer
Gajanan Thobare
(mh46.rto-mh@gov.in)
ARTO

(मोटार वाहन अधिनियम, 1988 चे कलम 213 [illegible] अंतर्गत [illegible])
(Bond under sec 213(5)(e) of Motor Vehicles Act,1988)
[illegible] ________(ठिकाण) ________ [illegible] ________ [illegible]
[illegible] NULL 2000 [illegible]
I solemnly affirm that I shall be present at........(place) on the specified date........ and time........and, in case of failure to do so, shall be responsible to pay Rs 2000 in favour of Government of State.

[illegible] / [illegible] नाव व स्वाक्षरी
Name and signature of Violator (Driver/Owner)
POOJA PARDESHI......

https://echallan.parivahan.gov.in/dashboard/print-page?challanId=206400078&request=[illegible]status=Pending 1/2

AIDS Sample Dashboard screenshot from existing live project

Project Name: - MTHL



Generated Challan Data as per NOIDA Police Records from EFKON's software application (1st January 2024 – 15th November 2024

ISTMS Challan Report 01 Jan 2024 to 15 November commissionerate Noida							
S. no.	Month	Challan Source	Total challan	Total Disposed	Total pending challan	Total revenue collect	Total Pending Revenue
1	January	ISTMS	102257	3885	98372	2341800	98372000
2	February		149601	4009	145792	2726400	145792000
3	March		120870	3369	117501	2358900	117501000
4	April		129884	1750	127094	1957800	127094000
5	May		118777	560	118217	469400	118217000
6	June		120513	263	120250	334100	120250000
7	July		107144	989	106155	1690700	106155000
8	August		84408	187	84219	326300	84219000
9	September		87531	570	86961	1136200	86961000
10	October		97071	93	96978	188000	96978000
11	November		82310	70	82240	142000	82240000
Total			1198624	15745	1183879	13688700	1183879000



Sample Report for validation of enforceable incidents (challans generation) by Police Team through EFKON'S software application

Project Name: - NOIDA ISTMS

Date	Total Audited	Total Rejected	Total Accepted
01/04/2024 00:00:00	3433	2	3431
02/04/2024 00:00:00	2592	0	2592
03/04/2024 00:00:00	2461	0	2461
04/04/2024 00:00:00	1882	0	1882
05/04/2024 00:00:00	2502	0	2502
06/04/2024 00:00:00	1109	0	1109
07/04/2024 00:00:00	2971	0	2971
08/04/2024 00:00:00	2511	0	2511
09/04/2024 00:00:00	2842	0	2842
10/04/2024 00:00:00	2642	0	2642
11/04/2024 00:00:00	3985	158	3827
12/04/2024 00:00:00	4872	6	4866
13/04/2024 00:00:00	1233	0	1233
14/04/2024 00:00:00	4073	0	4073
15/04/2024 00:00:00	3016	0	3016
16/04/2024 00:00:00	5661	63	5598
17/04/2024 00:00:00	3445	6	3439
18/04/2024 00:00:00	4142	4	4138
19/04/2024 00:00:00	6614	2	6612
20/04/2024 00:00:00	7232	0	7232
21/04/2024 00:00:00	3215	0	3215
22/04/2024 00:00:00	5248	0	5248
23/04/2024 00:00:00	4274	0	4274
24/04/2024 00:00:00	5031	0	5031
25/04/2024 00:00:00	2426	0	2426
26/04/2024 00:00:00	2261	0	2261
27/04/2024 00:00:00	4690	0	4690
28/04/2024 00:00:00	4075	0	4075
29/04/2024 00:00:00	4703	3	4700
30/04/2024 00:00:00	5591	1	5590

EFKON INDIA PVT. LTD.

KERALA STATE ELECTRONICS DEVELOPMENT CORPORATION LTD.
(A Government of Kerala Undertaking)

KELTRON®
ISO 9001 : 2015 CERTIFIED

Communication Projects Group
Keltron Communication Complex
Monvila, Kulathoor P.O.
Thiruvananthapuram - 695 583
KERALA, INDIA

Telephone: 0471-2598948 (5 lines)
Fax : 0471-2598984
E-mail : keltronseu@gmail.com

KCC/CPG/G.36/2024-25/1487

06.12.2024

The Chief Engineer-Regional Officer, Dehradun
Ministry of Road Transport & Highways
1st Floor, The Institution of Engineers (India) Building,
Near ISBT, Sharanpur, Road, Dehradun-248001

Dear Sir,

RFP: RO/UK/TIMS/2023/01 dated 11.03.2024,

RFP for Selection of System Integrator for Implementing and Maintaining Traffic Incident Management System on the Chardham Mahamarg

As per the above reference we have done a detailed technical presentation at the chamber of Joint Secretary (Highways), Transport Bhavan, New Delhi on 05.12.2024. As discussed during the meeting, we are pleased to submit the following documents for your review.

1) Power Point Presentation with relevant Tender clause mentioned

2) Brief note on the discussion point and for Why Keltron as annexure 1

Yours faithfully,

For KERALA STATE ELECTRONICS
DEVELOPMENT CORPORATION LTD.

KERALA STATE ELECTRONICS DEVELOPMENT CORPORATION LIMITED
COMMUNICATIONS DIVISIONS KULATHOOR TRIVANDRUM-695 583

Head CPG
Keltron Communications Complex
Monvila, Kulathoor P O.TVPM-695583 Kerala.
Phone- 0471 2598948, Extn: 172, 9495622751
Email: keltronseu@gmail.com

Annexure 1

Project Components Slide No # 9

1. We have considered AIDS 410nos (205x 2), because as per the tender documents page no 190/245 clause no 13-1, Indicative camera locations and TIMS amendments document page no 69/101 S.No. 102 where in which we have to install AIDS system at 205 locations both side of the road.
2. We have considered TMCS 1386 nos, because as per the tender documents page no 199/245 clause no 13-2, Indicative camera locations.
3. We have considered VMS 42 nos, because as per the tender documents page no 128/245 clause no 7.10.3-17 VMS shall be provided at such locations at a distance not more than 20KM from one another.
4. We have considered ECB 840 nos, because as per the tender documents page no 130/245 clause no 7.11.6-2 **ECBs shall be installed at intervals of 2 Km (+/- 100m) on both sides of the highway such that a distance of 1km (+/- 50m) is the maximum one has to travel to reach the nearest available ECB.** Total proposed distance is 840KM.
5. We have considered OFC 1400 KM, because as per the tender documents page no 114/245 clause no 7.7 Digital Transmission system and TIMS amendments document part A page no 9/101 S.No. 19, Part B page no 27/101 S. No. 25 and part B page no 95/101 S. No. 141 **.** We are proposing ring topology as per our solution design as per the tender document 7.1.10.4.2 Network design point no 4 . As per the tender documents page no 44/245 clause 6.4 SLA during O& M Period we are proposed Switches are provided with additional 48 hours battery back up to avoid network disruptions due to power loss at any site in OFC network.
6. We have considered spoke locations 13 Nos, because as per the tender documents page no 6/245 clause no 2.2 – 5 a , b and c .

Accident and Incident Detection System (AIDS) - Function Slide No # 32

1. As per the tender document page no 96/245 clause no 7.3.3.9 ANPR camera ie **Suitable day & night corrected lens should be provided each camera to provide required resolution at day & night conditions External IR illuminator are always recommended,** TIMS amendments document part B page no 26/101 S.No. 20 ie "Bidders are given the flexibility to design their system (incl. deployment of equipment) in such manner that meets the performance and operational requirements. The technical specifications are only indicative in nature; System

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Integrator is free to choose equipment/ software / manpower with higher/better specifications.", Hence we have proposed **5MP single camera with Global Shutter Technology** for both AID and ANPR functions and external IR illuminator. We don't require speparate camera to meet the tender specification.

2. We are using 4D Radar **As per the tender document page no 96/245 clause no 7.3.3.9 ANPR camera point number 1 and 2 ie** Success rate of number plate recognition, reading and associating with transaction shall not be less than 90% during night-time at a speed of 180 kmph for standard number plates. This may not be possible using Rolling shutter camera and with out Radar.
3. We are proposing Pulsed IR flash with dual exposure at night to capture reflective and no reflective number plate with same number plate accuracy , **As per the tender document page no 96/245 clause no 7.3.3.9 ANPR camera point number 3** The night vision should not affect the accuracy.

Accident and Incident Detection System (AIDS) - Function Slide No # 33

1. We are proposed Mains power supply as well as Solar power supply As per the tender document page no 94/245 clause no 7.3.3.3 Power supply System , clause no 4.2.2 page no 35/245 and TIMS amendments document part B page no 26/101 S.No. 20
2. We are proposing 5No of Flash light at each AIDS locations as per the **As per the tender document page no 95/245 clause no 7.3.3.5** Local warning flashing lights and Alarm and TIMS amendments document part A page no 8/101 S.No. 17 " There shall be at least five such warning lights each mounted typically at a distance of 100 meters and 200 meters before the incidence monitoring point when seen from the direction of travel. The above distances shall be suitably optimized during detailed engineering. Two warning lights shall be installed in the median and three on the shoulder side. However, in case the median is not present, five warning lights shall be installed on the shoulder side".
3. We prosed Thermal sensor in AID System **As per the tender document page no 93/245 clause no 7.3.3.1 AID Camera point number 7** to ensure incidents (debris, fog, accidents, pedestrian, animal crossing etc.) are automatically detected in night conditions also in the range of upto 100m. **Thermal is the only one technology for seeing through fog.** No other camera technology can see through fog.

Speed Measurement Method & Accuracy Slide No # 39

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1. 167a Compliance : As per the tender document page no 97/245 clause no 7.3.3.9 ANPR camera point no 8

Traffic Monitor Camera System (TMCS) Slide no # 56

1. We proposed High zoom PTZ camera having 500m range with onsite LPU and night range up to 100m as per **the tender document page no 86/245 clause no 7.2.2 Key Functions and page no 87/245 7.2.3.1.2 Night vision capability**. The PTZ camera is programmed to operate in tour mode with defines presets covering the entire 500 meter stretch at one side and same will be operate in the opposite side. Hence we can cover 1KM total in day time using one camera. At each preset point AI engine analyses the Image for stopped / accident vehicles, etc. In case of incident same position is kept and alert passed to CCR operator.

Central Processing System Slide No # 81

1. We have proposed primary storage as well as backup storage in RAID as per the tender document page no 52/245 clause no 7.1.1 "Online backup should be maintained to protect against storage failure" and we have proposed backup of the same in hub control room as per the tender document page no 72/245 clause no 7.1.10.2 Central Video Recorder (CVR) para 1 . We are also proposing edge storage of 256 GB in VPU at edge camera location as per the tender document page no 97/245 clause no 7.3.3.9 point no 10 "The Camera shall have inbuilt SD card slot and shall be provided with at least 256 GB class 10 SD card / suitable storage at site."

Central Processing System Slide No # 82

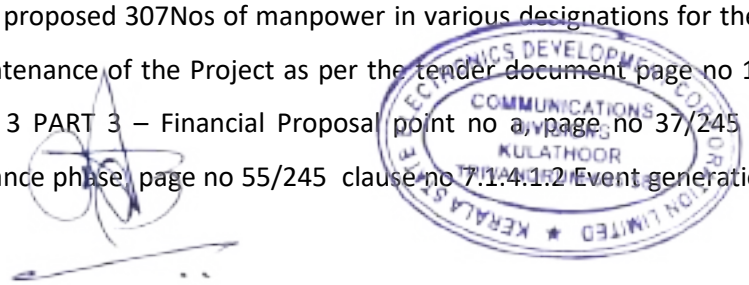
1. **We have proposed redundancy of each server and network equipment's in each control rooms as well as the hub control room as per the tender document page no 125/245 clause no 7.9** Data Center & Data Recovery.

Central Processing System Slide No # 83

1. **We have proposed redundancy for UPS in each control rooms as well as the hub control room as per the tender document page no 109/245 clause no 7.6.3.1 Installation** Location.

Manpower Details Slide No # 83

1. We have proposed 307Nos of manpower in various designations for the effective operation and maintenance of the Project as per the tender document page no 16/245 clause no 3.4 point no 3 PART 3 – Financial Proposal point no a page no 37/245 4.2.7 operation and maintenance phase page no 55/245 clause no 7.1.4.1.2 Event generation point no 4.a and



TIMS amendments document part B page no 62/101 S.No. 83 General Query "It is clarified that as per Clause 3.4 "The bidder shall submit the financial proposal with the total bid amount across capital expenditure and O&M stages (including operating costs to be accounted for equipment & manpower from the date of planned go -live for each phase till the end of the contract period)." Project is envisioned to be outcome -driven and governed by the SLAs listed in Section 6 of the RFP. Bidders are given the flexibility to design their system (incl. deployment of equipment) in such manner that meets the performance and operational requirements. The technical specifications are only indicative in nature; System Integrator is free to choose equipment/ software / manpower with higher/better specifications. In case of lower specification, System Integrator shall explain the reason for such deviation" . By considering the guidelines above and proper management of SLA and successful implementation of the project we have considered incident management operators in each control room with respect to the number of cameras available in each control room in each phase. Apart from the for entire project management we have considered one project manager for this project and dedicated system admin, security and maintenance staff with vehicle in each shift. Also considered a house keeping staff in each control room. There is no proper guidelines for the manpower in the RFP, we have followed the ATMS Guidelines issued by NHAI (Ministry of Road Transport and HIghways) Policy circular no 11.53/2023 dated 10/10/2023 since the proposed project managed by MoRTH.

Make In India Components Slide No #13

1. As per the tender document page no 29/245 clause no 3.6 Technical Criteria Point C Procurement and standards and Page no 25/245 Special Instructions for OEMs and Bidders Point number 5, Our proposed solutions contains more than 70% of Make in India Products as class 1 local supplier.
2. As per page no 150/245 clause no 11.17 Sub contract "The System Integrator, whether Joint Venture or sole, shall not sub-contract any Works in more than 49% of the Contract Price and shall carry out Works directly under its own supervision and through its own personnel and equipment in at least 51% of the Contract Price." Even though we are giving only less than 30% of works through outsourcing which includes works like civil works for control room as well as the filed installations, Fabrications poles as well as Gantries , OFC laying etc .





Why Keltron?

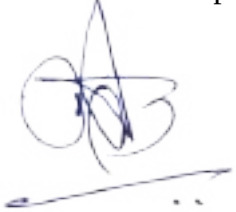
We Kerala State Electronics Development Corporation Limited (KELTRON) are a public sector undertaking company established in the year 1973 and owned by Government of Kerala. In five years since inception, Keltron had set up several production centres and engaged more than 1800 people directly for its function. Our average group turnover is above INR 500 CR for the last 3 financial years

Our primary focus has been in the following sectors.

1. Defence Electronics – DRDO, DRDL, INDIAN NAVY, COAST GUARD, SHIPYARDS, BEL, BDL
2. Space Electronics- ISRO, URSC
3. Power Sector – Major Nuclear and Thermal Power Plants , NPCIL, GAIL, BARC, KSEB
4. Pneumatics, Control and Instrumentation – BHEL, NTPC, ISGEC, JINDAL, DVC,NLC, NALCO,SAIL,THERMAX, REFINERIES.
5. IT Sector
6. Intelligent Traffic Management and Enforcement Sector
7. Security and Surveillance Sector

We are providing various solutions and products in industry sector including Power Electronic Products, IT & IT enabled Services, Strategic Products like Echo sounder, Electromagnetic Log and Re-Transmission Unit, Search and Rescue Beacon, Processor Based Ground Mine Traffic Enforcement system, GPS based vehicle tracking system, Traffic signals System, etc..

Keltron has built up a strong infrastructure of 700,000 sq. ft. of built-up area across Kerala. In addition to the manufacturing facilities for Power electronics, Defense, control & Automation etc. facilities like Towed array manufacturing & testing facility, ET/ESS Test facility and Contract manufacturing facilities with SMT lines have been created as common test facilities for Electronic Industry. Keltron has an All India Sales Network in place with full-fledged Marketing Offices in Mumbai, Delhi, Kolkata, Chennai, Bangalore, Nagpur, Ahmedabad and Trivandrum to provide the quickest possible service to customers.



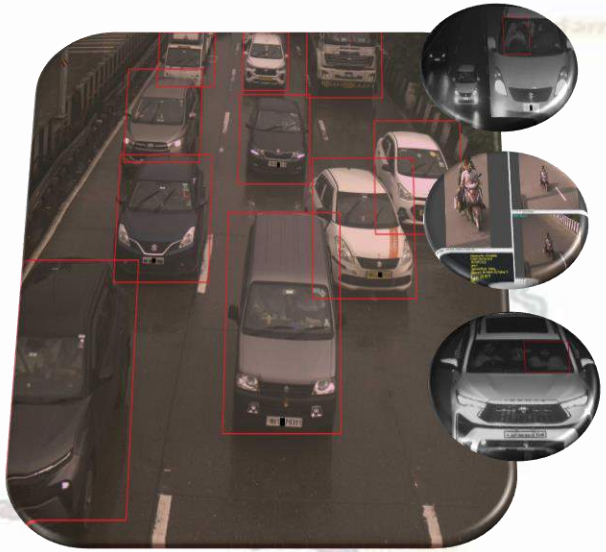


Considering defense sector itself we have a sales turnover of 120 Cr/ year . This is fully manufactured in Keltron only . Our own manufactured products supply, installation and commissioning and its after sale supports also done by us only. Now we are providing our manpower support in ISRO launch pad to under water submarines.





Traffic Incident Management System on the Chardham Mahamarg



KERALA STATE ELECTRONICS DEVELOPMENT CORPORATION Ltd. (KELTRON)

https://keltron.org/

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COMMUNICATIONS DIVISIONS
KULATHOOR
TRIVANDRUM-695 583

KELTRON
A Government of Kerala Undertaking

KERALA STATE PSU

- Established in 1973 – Largest PSU in Kerala
- A Multi-product Organization
- Pan India Presence

KELTRON MARKETING OFFICES

- HO Thiruvananthapuram
- New Delhi
- Mumbai
- Kolkata
- Ahmedbad
- Bengaluru
- Chennai



KELTRON PRODUCTION CENTRES

- Corporate Office: Keltron House, Trivandrum
- Keltron Equipment Complex, Trivandrum
- Keltron Communication Complex, Trivandrum
- IT Business Group, Trivandrum
- Keltron Controls Aroor, Alleppey
- Keltron Lighting Division, Calicut
- Keltron Tool Room cum Training Centre, Malappuram

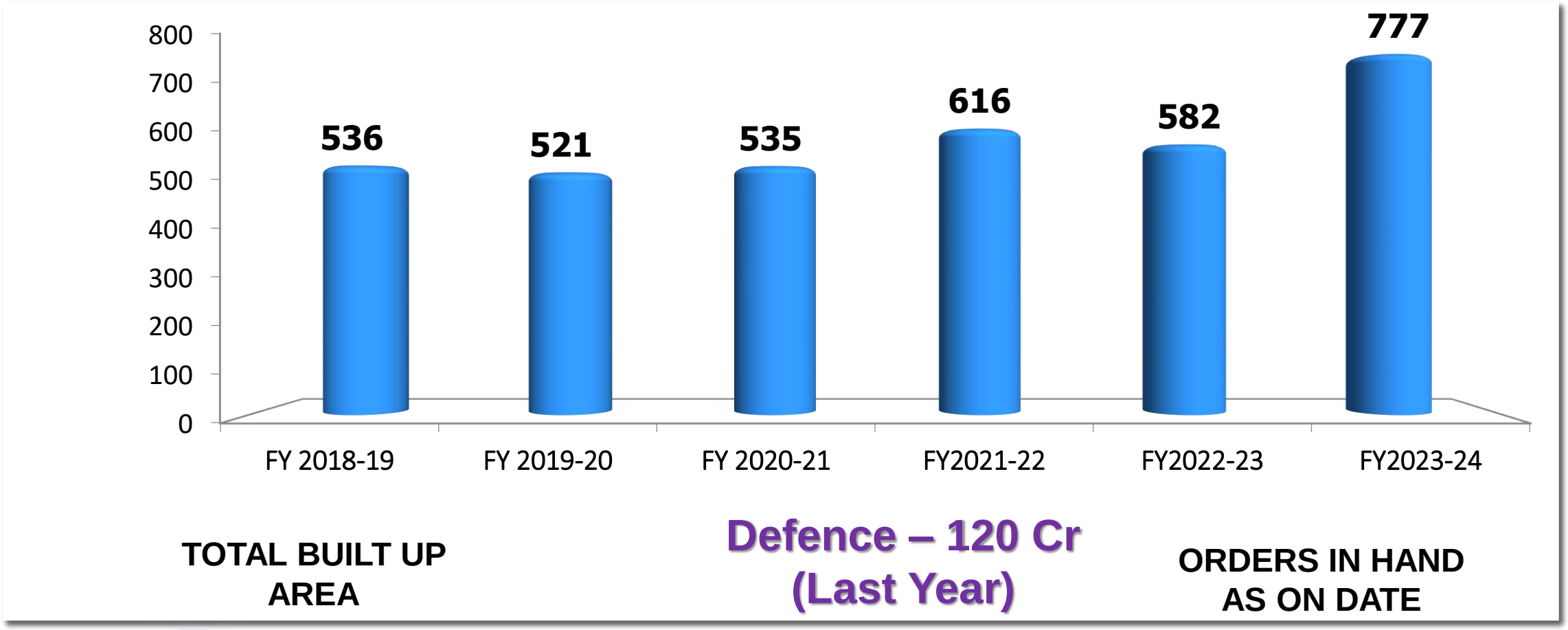


SUBSIDIARY COMPANIES

- Keltron Component Complex Ltd., Kannur
- Keltron Electro Ceramics Ltd., Malappuram

TURNOVER OF KELTRON GROUP OF COMPANIES FOR LAST SIX FINANCIAL YEARS

Rs. in Crs.



TOTAL BUILT UP AREA

5,95,000 Sq. Ft.

Defence – 120 Cr (Last Year)

ORDERS IN HAND AS ON DATE

1400 Crs.

CORE COMPETENCE

SYSTEM INTEGRATION

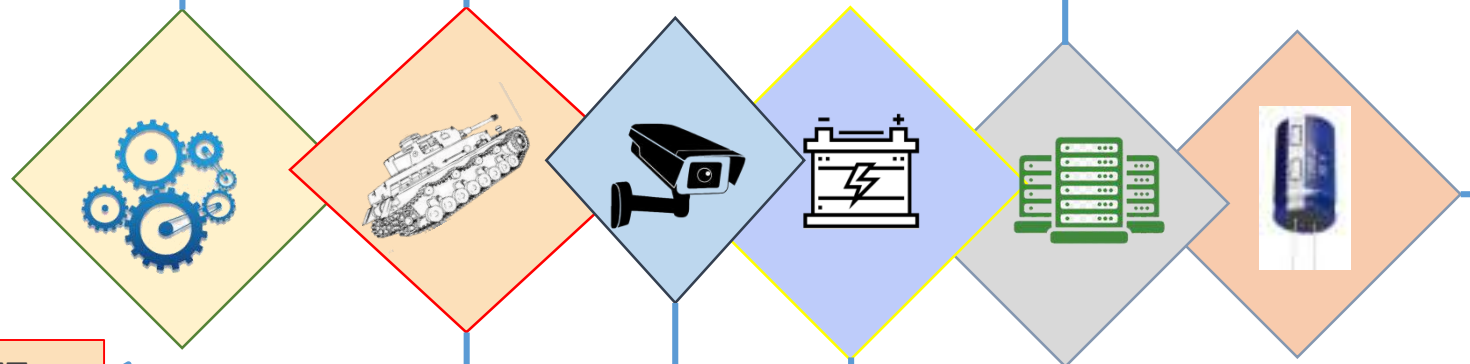
Role of System Integrator
Smart City Projects, Solar Projects, Control & Instrumentation

TRANSDUCERS

Transducers for Sonar including Towed Array Sonars

IT SOLUTIONS PROVIDER

Consultancy services on IT Products, Networking, Server and Data Center Management solutions, Software solutions etc.



DEFENCE & SPACE SEGMENT

Design and develop products for **DRDO Labs (NSTL, NPOL, RCI)** and other research organization like **WESEE, C-DAC, ISRO etc.**

CAPACITORS

Electrolytic Capacitors
Super Capacitors

TRAFFIC MANAGEMENT SOLUTIONS

Provide state of the art traffic management solutions for NHAI, SAFE KERALA,ITES for Kerala Police etc.....

POWER ELECTRONICS

High power converters, Invertors and rectifiers for major nuclear projects and industrial application.

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MAKE IN INDIA

Project Summary – Phase wise split up

Phase 1:

- NH 7 Rishikesh-Rudraprayag 142 Km

Phase 2:

- NH 34 Rishikesh-Uttarkashi 120 Km
- NH 7 Rudraprayag-Mana 138 km

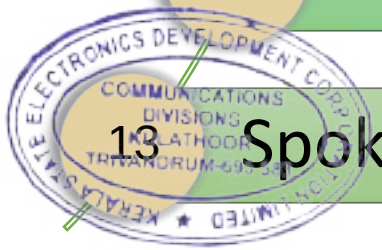
Phase 3:

- SH 15 Uttarkashi-Ghansali-Tilwara 171 Km
- NH 107 Rudraprayag-Kedarnath 76 Km
- NH 134 Dharasu-Yamunotri 76 Km
- NH 34 Uttarkashi-Gangotri 111 Km

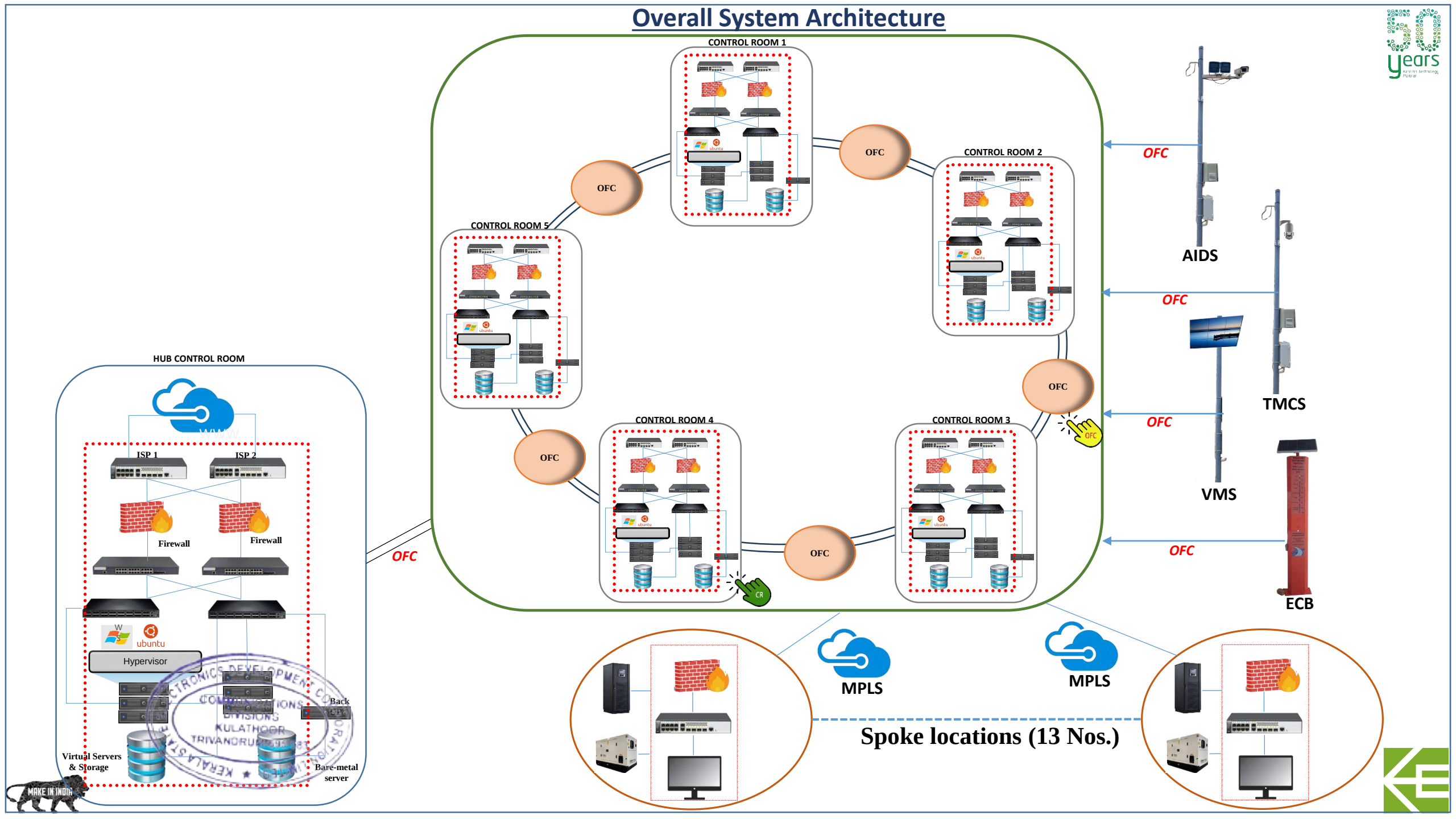
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Project Components

- 410 Accident and Incident Detection System (AIDS)
- 1383 Traffic Monitoring Camera System (TMCS)
- 42 Variable Message Sign Board (VMS)
- 840 Emergency Call Box(ECB)
- 1400 Connectivity
- 1+5 Hub Control room + Control Rooms
- 13 Spoke locations



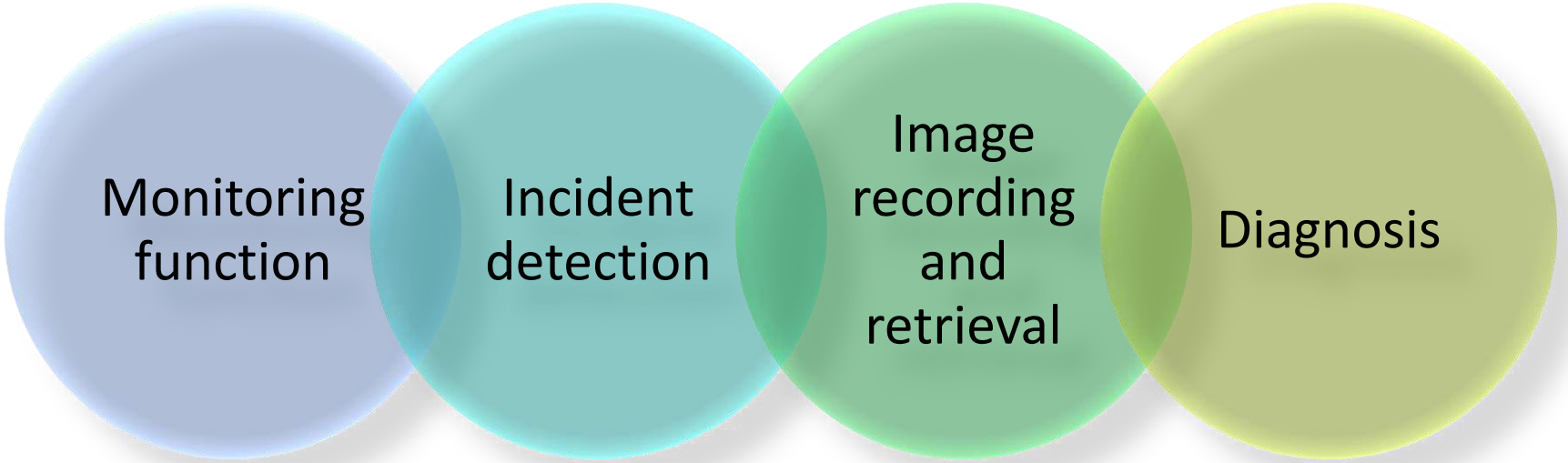
Overall System Architecture



Accident and Incident Detection System (AIDS)

(Clause No. 7.3 of RFP Doc.)

Key Functions



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Accident and Incident Detection System (AIDS) - Function

(Clause No. 7.3.1 of RFP Doc.)

The Accident and Incident Detection System (AIDS) will be strategically installed at accident-prone zones, high-risk areas identified by enforcement agencies, and other vulnerable locations to effectively detect and respond to incidents.

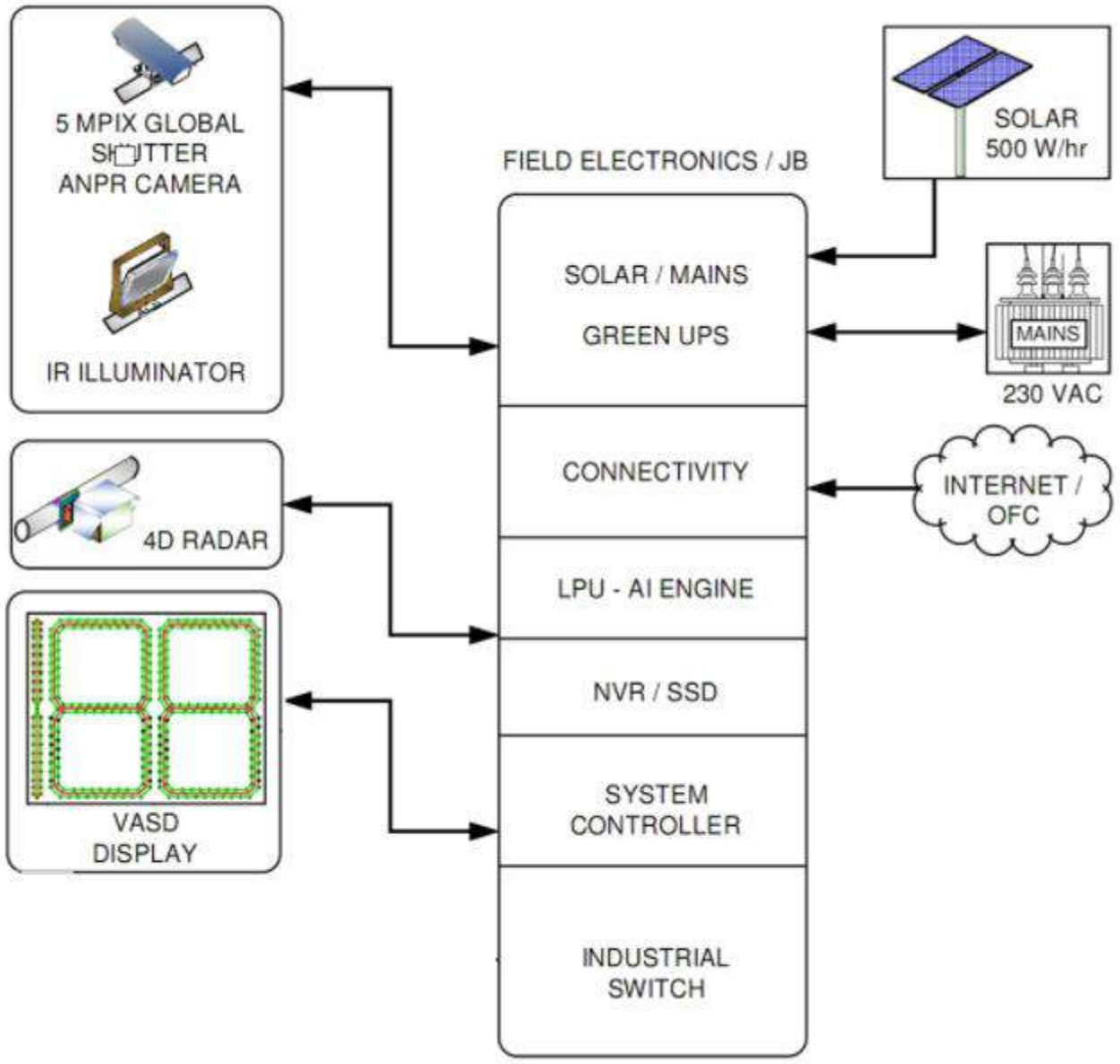
- AIDS consists of 5 M pixel Global shutter camera (Using Sony Pregius sensor) covering 1-2 lanes of the road and acts as ANPR camera.

- Infrared illumination: each lane has a Pulsed IR flash is used with ANPR camera

- 4D Doppler radar used to detect the over speeding vehicles along with suitable ANPR Cameras and IR Illuminators to capture images and license number of vehicles during Day and Night. The system works fully automatically day and night, and captures court evidence images.

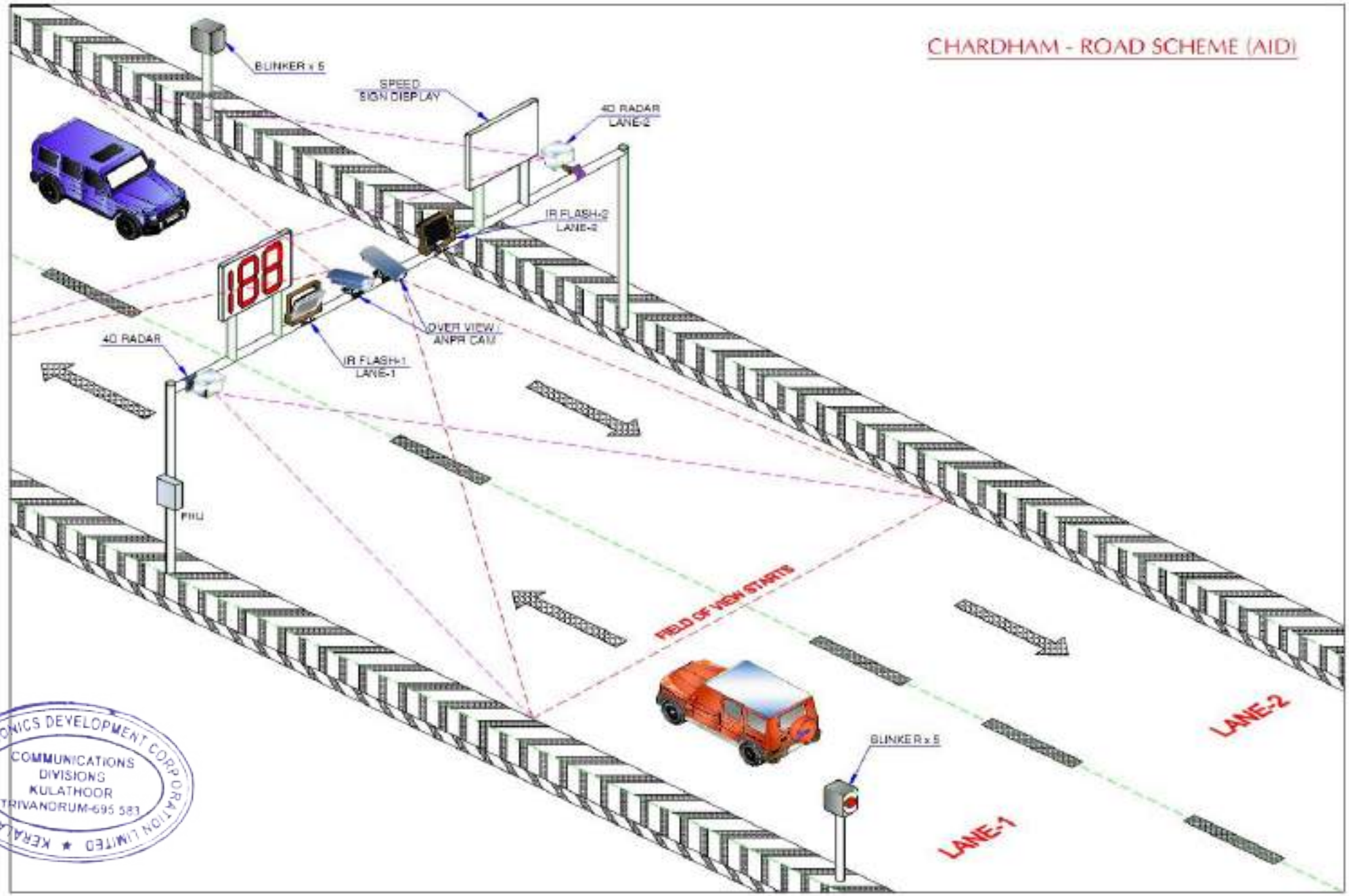
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AIDS Block Diagram – Chardham Mahamarg



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Accident and Incident Detection System (AIDS) - Layout



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Accident and Incident Detection System (AIDS)

Key Features

- Spot speed enforcement using state-of-the-art 4D Radar
- All vehicle ANPR system
- Built in AI functions for Seatbelt, Helmet, Triple Riding etc.
- Speed accuracy 98% using 4D Doppler radar at > 150 KMPH
- use Deep Learning based ANPR
- > 90% ANPR accuracy for standard & near standard plates

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Accident and Incident Detection System (AIDS)

Key Features

- >90% accuracy for vehicle detection along with vehicle classification
- synchronized high power infrared flash
- Capture both retro & non-retro reflective license plates
- Marking on violated vehicle for identification
- High ANPR accuracy in day and night



AID Camera & System Specifications



Global Electronic Shutter sensor

Ability to capture fast-moving objects without the distortion

Eliminates motion artifacts such as skew, wobble, or partial exposure

Integrated light sensor for all round image quality

Day & Night operation with pulsed high power IR flash

Triggered capture and flash synchronization

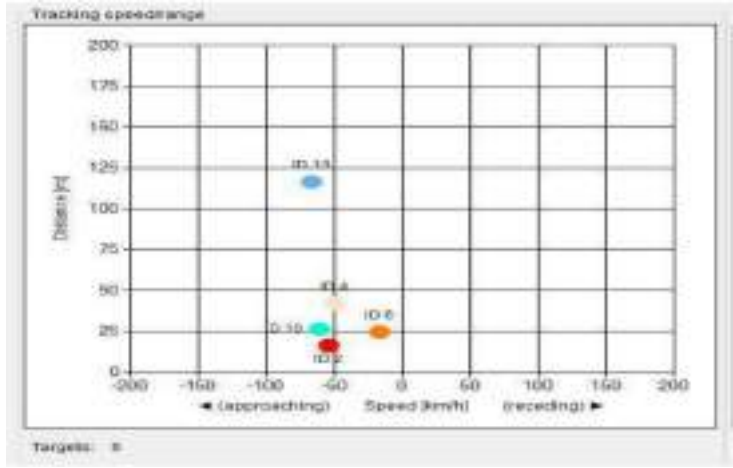




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Radar Specification

- Speed Range: 1 - 150 Kmph
- Distance Range: 150 mtr (maximum 200 mtr)
- Transmitter Frequency: 24.075 - 24.175 GHz
- Output Power (EIRP): 20 dBm
- Modulation: FSK
- Speed Resolution: 1Kmph
- Angular Resolution: 1 deg
- 10/100 BaseT Ethernet Interface
- RS 485 interface option
- Real Time Clock with battery backup
- Power Max: 12 VDC, 4W
- IP 65 Enclosure





RADAR View

Speed Measurement Method & Accuracy

- A. SPOT speed: The instant speed of vehicle is measured using 4D Radar sensor.
- B. AVERAGE speed: Average speed measurement (average speed between adjacent check points A & B) should be possible by measuring the time of arrival of the vehicle at two points A, B (with the NTP/GPS synchronized SVDS system). Distance between points A & B divided by travel time gives.

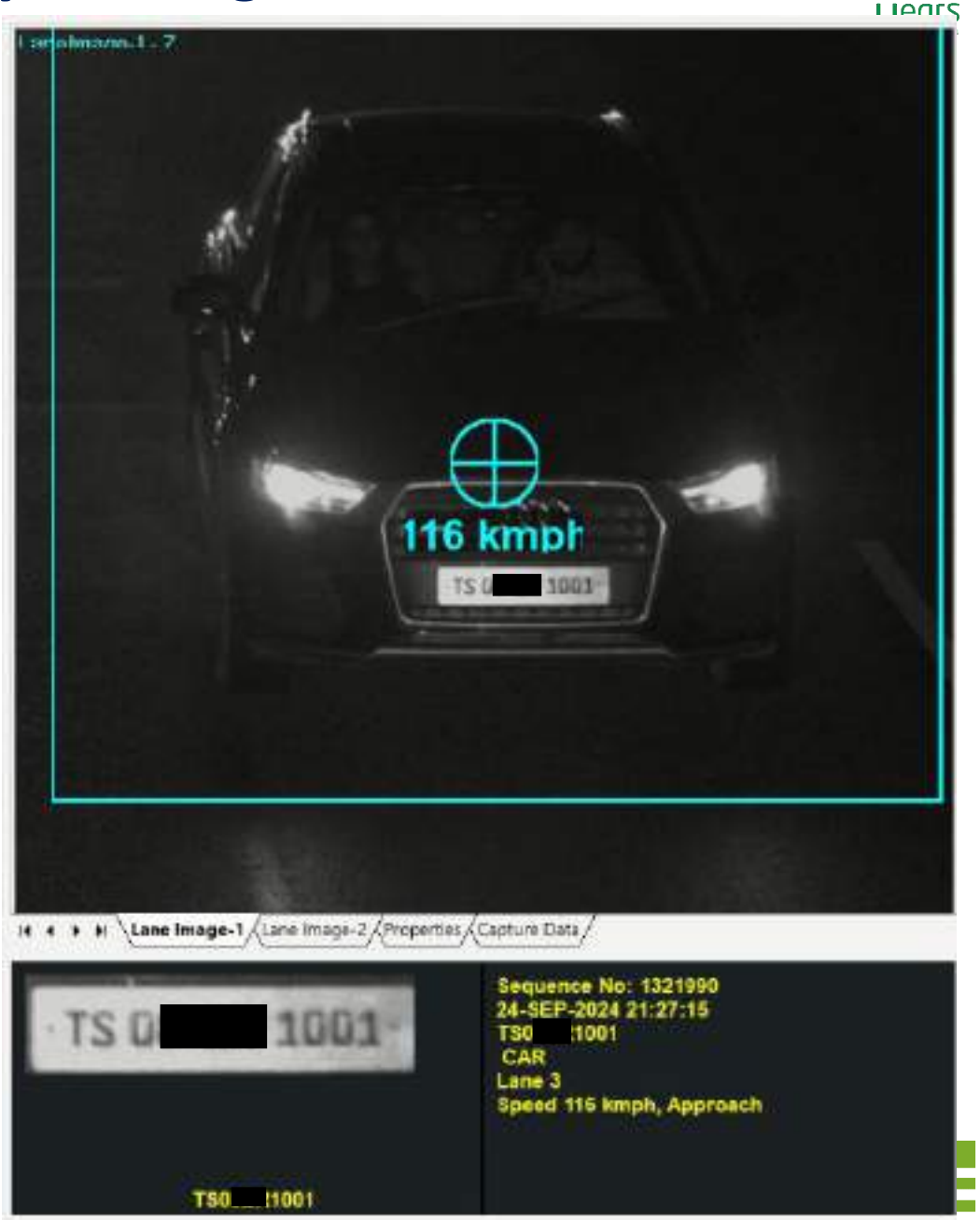
167a Compliance

As per MoRTH rule State govt. appointed tech committee to approve procedure. Followed in Safe Kerala project in Kerala from 2023 June onwards.



High ANPR Accuracy – Day and Night





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MAKE IN INDIA

Retro Reflective License Plate





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Non-Retro Reflective License Plate





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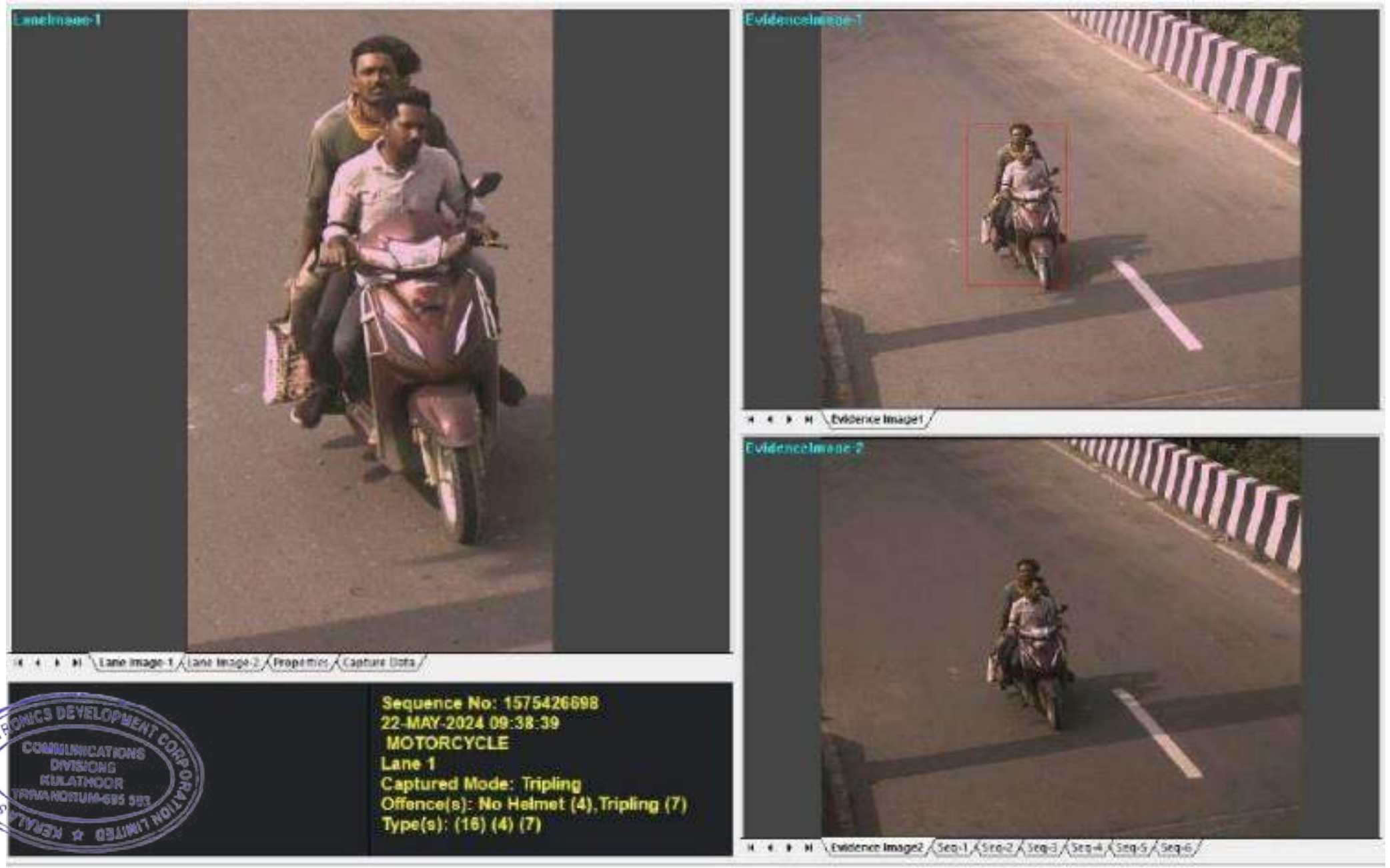
Seatbelt Violation Capture - Day



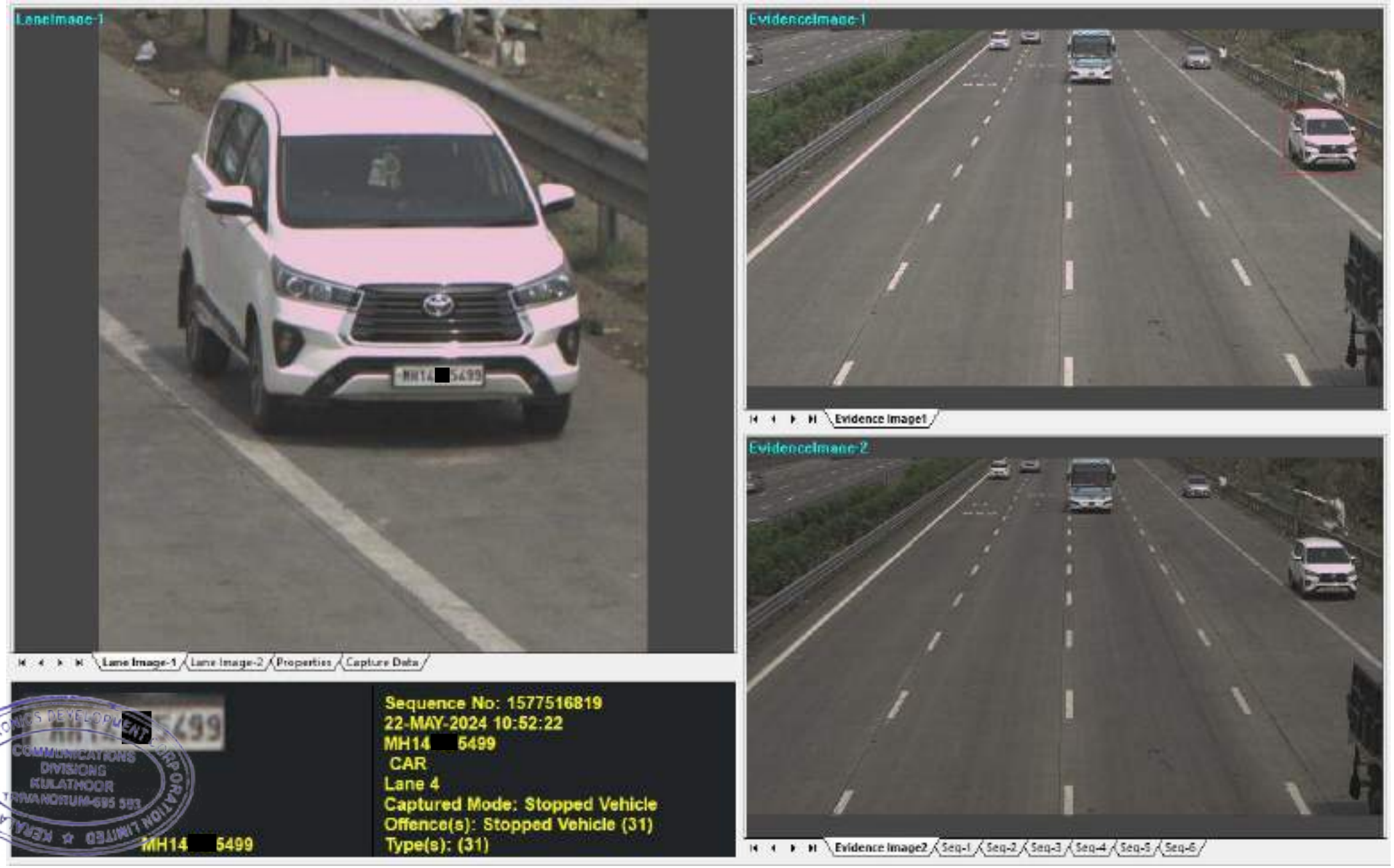
Seatbelt Violation Capture - Night



Triple Riding Violation



Illegal Parking / Stopping on roads - Shoulders

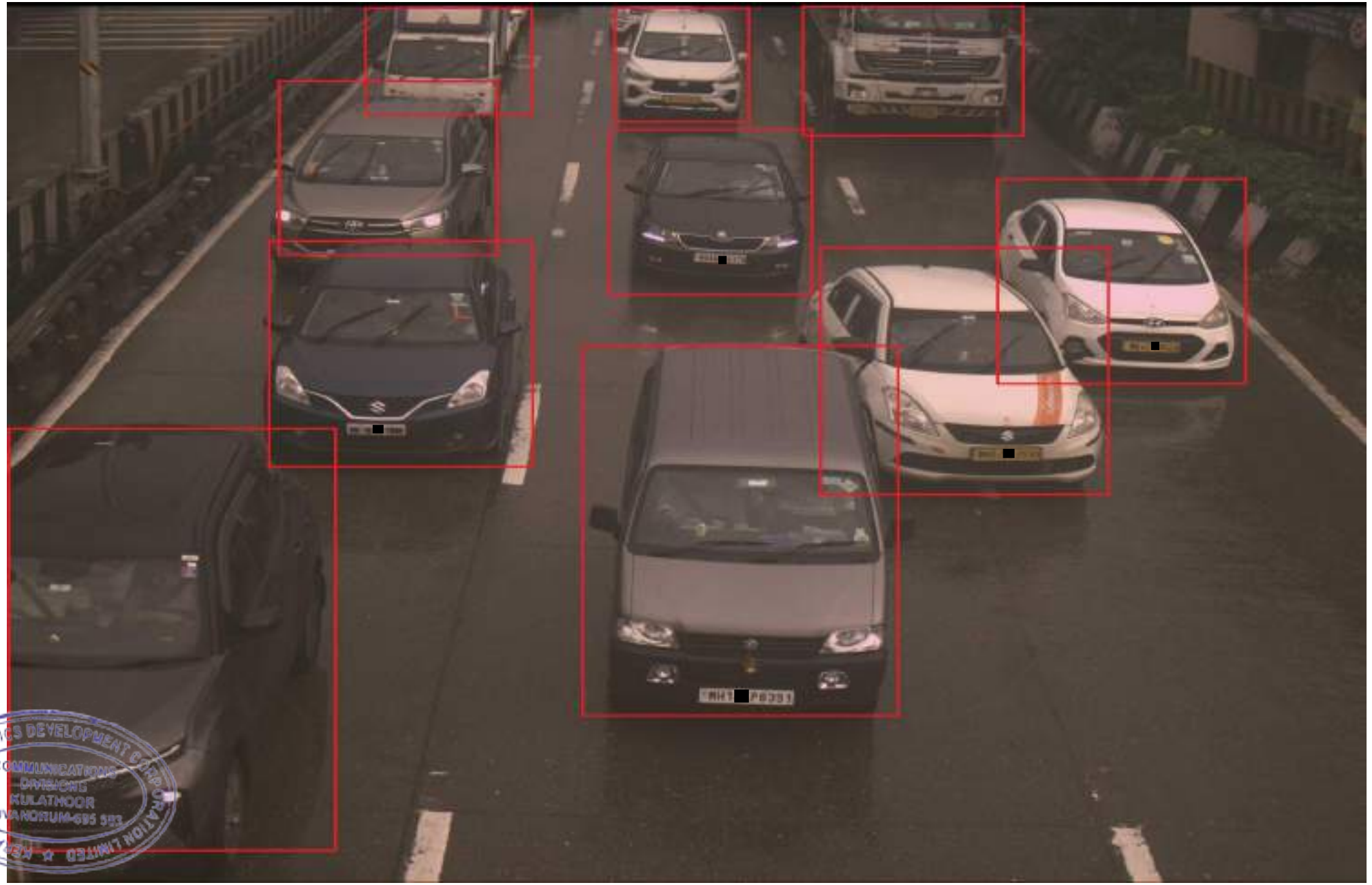


Mobile Phone Detection while Driving



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Congestion Detection



Wrong Vehicles on Wrong Lanes / Wrong time of the Day



Vehicle Actuated Speed Display (VASD) - Function

(Clause No. 7.3.3.10 of RFP Doc.)

Vehicle-Actuated Speed Display (VASD) will display the speed of approaching vehicles to encourage them to adhere to the speed limit.

- Provide drivers with real-time feedback on their current speed.
- Integrate with AIDS system's radar sensor that measures the speed of approaching vehicles.
- Each lane have one display



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VASD – Specifications

(Clause No. 7.3.3.10.2 of RFP Doc.)

TECHNICAL DETAILS	
Light source	High Power LEDs
Protection	Class IP 65
Temperature Classes	-25°C to +60°C
LED Color	RG
Power Supply	220VAC-50HZ
Typical power consumption	90W (Max) 75W (Average)
Viewing Distance	5 to 400mtr
In built sensor	Ambient Light Sensor (Auto Mode/Manual Mode)
Display area	700mm x 700mm (LED MATRIX)
Graphics	Text and Symbols

KELTRON COMMUNICATIONS TRIVANDRUM-695 583

BOQ - AIDS

Item description	Qty	Unit
5 MP ANPR Global Sutter Camera	410	Nos
4D Radar with Radar Interface Sub Module	410	Nos
Pulsed Power IR Flash UNIT: 60 meter coverage	410	Nos
AI and ANPR Licence	410	Nos
VASD Display (one display for each lane on both sides of road)	410	Nos
Solar Panel With Controller and UPS with 24Hrs backup	410	Nos
Industrial grade switch with SFP port	410	Nos
Local Warning Flashing Lights	2050	Nos

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Traffic Monitoring Camera System (TMCS)

(Clause No. 7.2 of RFP Doc.)

Key Functions



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Traffic Monitoring Camera System (TMCS) - Function

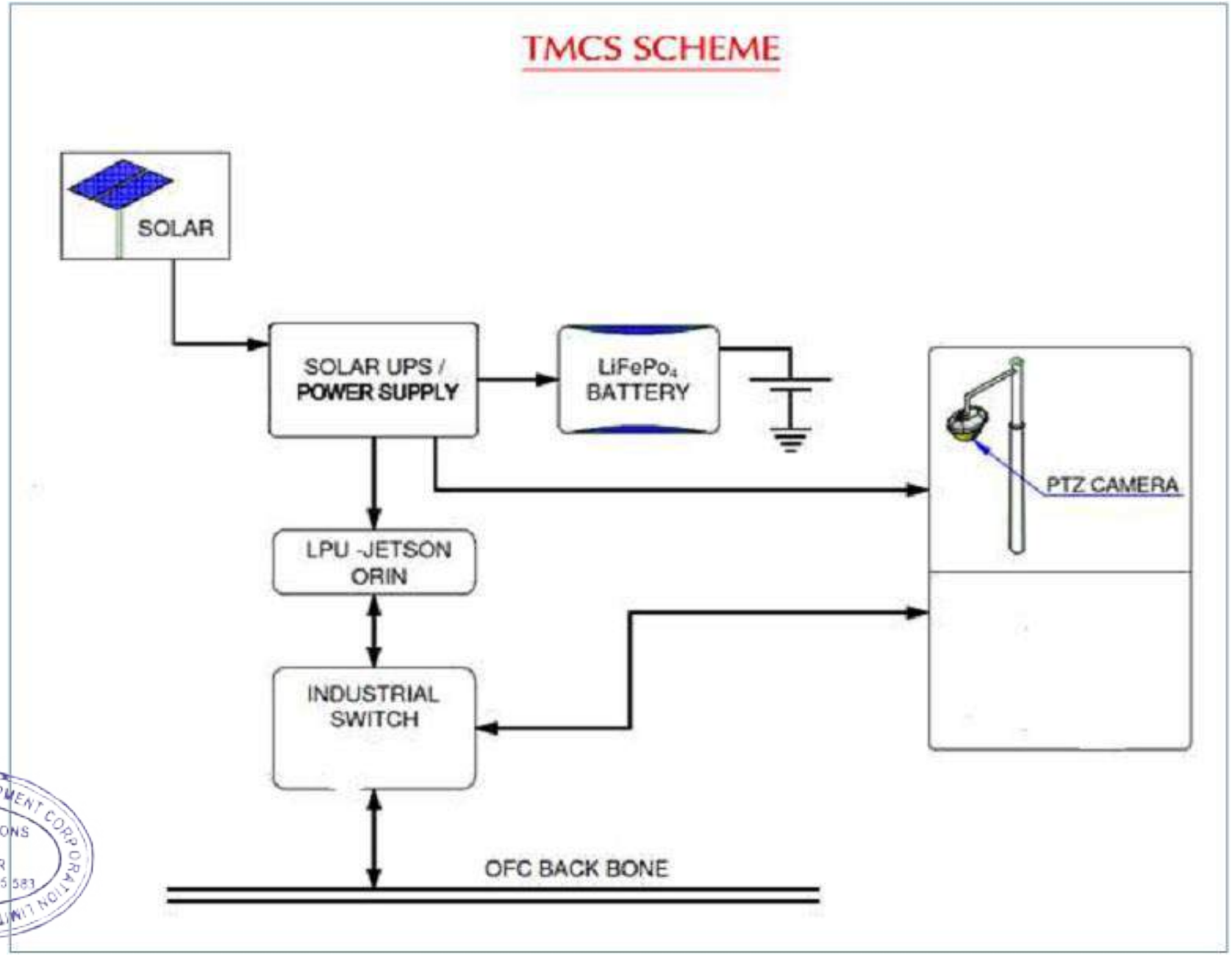
(Clause No. 7.2.2 of RFP Doc.)

The Traffic Monitoring Camera System (TMCS) to monitor the key location, accident-prone areas, junctions, major median openings, major structures, urban areas, major villages junctions etc. .

- TMCS consists of 2 M pixel camera covering 1-2 lanes of the road.
- Infrared illumination can cover up to 360m during night time.
- 256 predefined tours.
- Built in Heater.
- Auto tracking for VMS.
- Scan the preset points and automatic incident detection and identification using deep learning technology.

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TMCS - Scheme



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Traffic Monitor Camera System (TMCS)

High zoom PTZ camera with onsite LPU used. The PTZ camera is programmed to operate in tour mode with defines presets covering the entire 500 meter stretch. At each preset point AI engine analyses the Image for stopped / accident vehicles, etc. In case of incident same position is kept and alert passed to CCR operator.



Incoming road – approx. depth 500 meters

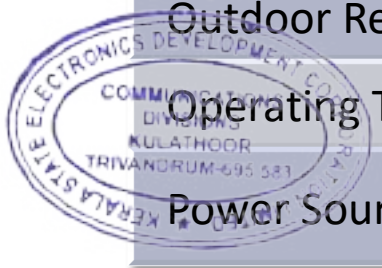
TMCS CAMERA– Chardham Mahamarg(Clause No. 7.2.3.1 of RFP Doc.)

Key Features	Spec
Image Sensor:	1/2" CMOS
Max. Resolution:	1920 x 1080
Scanning Mode:	Progressive Scan
Focal Length:	f=6 - 216mm
Aperture:	F1.36 - 4.6
Dynamic Range:	120dB (True WDR)
Electronic Shutter Speed:	Auto / Manual (1/30 ~ 1/10000), Anti-Flicker, Slow Shutter (1~1/5, 1/7.5, 1/15)
Day and Night:	IR cut filter with auto switch
IR Distance (LEDs):	350 m / 1,148.2ft (2ea)
Intelligent Video:	Video Motion Detection, Active Tampering Alarm
Auto Tracking:	Yes
Pan Range:	360° (Endless)
Pan Speed:	Pan: 0.02~240°/sec (preset 360°/sec)



TMCS CAMERA– Chardham Mahamarg

Key Features	Spec
Tilt Range:	200° (-10~190°)
Tilt Speed Tilt:	0.02~240°/sec (preset 360°/sec)
Preset:	256ea
Video Compression:	H.265, H.264 (MP), M-JPEG
Bitrate Control:	H.264 - CBR / VBR, H.265 - CBR / VBR
Audio Compression:	ADPCM 16K, G.726, G.711 u-Law, G.711 a-Law
Two-way Audio:	Yes
IP Camera Protocol:	Direct IP 2.0, ONVIF
Max. Frame Rate:	60ips : 1920 x 1080, 30ips : 1920 x 1080(WDR)
Vandal Proof Casing:	IK10
Outdoor Ready:	IP66, Heater
Operating Temperature:	-40°C ~ +60°C, *Starting up at above -20°C (-4°F)
Power Source:	24VAC, PoE (75W, 25K ohm signature resistance detectable)



BOQ - TMCS

Item description	Qty	Unit
2 MP Full HD (1080P) PTZ Camera with Built in IR Flash up to 360m	1386	Nos
Local Processing module	1386	Nos
Video Analytics Modules	1386	Nos
Industrial grade switch with SFP Port	1386	Nos
Solar Panel With Controller and UPS with 24Hrs backup	1386	Nos

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Variable Message Sign(VMS) - Function

(Clause No. 7.10 of RFP Doc.)

The Variable Message Sign (VMS) give advance information on road conditions ahead like road incidents, special events, and construction or maintenance activities and shall be controlled from the Command Centers.



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- Dimensions 1800mm x 5000mm
- Viewing Distance >300m

Variable Message Sign (VMS) – Fixed – Scheme

Scheme



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Variable Message Sign(VMS) - Specification

(Clause No. 7.10.3 of RFP Doc.)

TECHNICAL DETAILS	
Light source	High Power LEDs
Protection	Class IP 65
Temperature Classes	-25°C to +65°C
LED Color	RG
Power Supply	110/230VAC 50/60 HZ
Typical power consumption	3585W (Max) 1850W (Average)
Interfaces	TCP/IP / 3G (optional)
Optic	Optical equipment fits into the matrix luminance ratio (contrast) up to 100, even at low sun position <10°
Compliant	EN12966 (Optical, Electronic, Hardware)

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BOQ - VMS

Item description	Qty	Unit
1800mm x 5000mm VMS Display	42	Nos
VMS Controller	42	Nos
Solar Panel With Controller and UPS with 24Hrs backup	42	Nos
Industrial grade switch with SFP port	42	Nos

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Emergency Call Box (ECB) - Function

(Clause No. 7.11 of RFP Doc.)

The Emergency Call Box (ECB) to make emergency calls to the closest Police Control Room or National Highways helpline central control room, or any other control room prescribed by the state authorities to report incidents such as accidents and /or other emergencies on the highway requiring immediate help/intervention.

- Single Pole Installation
- Single Button calling Function
- Built-in speaker and microphone for hands-free operation.
- Working on Optical Fiber Connectivity
- High definition audio quality



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Emergency Call Box (ECB)

Key Features

(Clause No. 7.11.2 of RFP Doc.)

- Hand free calling
- Single button calling function
- Full duplex calling
- Auto ECO cancellation
- Tamper alarm
- Battery power indication
- Calling indication



Emergency Call Box (ECB)

Key Features

- Adjustable volume
- Low power consumption
- Solar power operated
- 12v D C operate
- Illuminated Guide signage
- 72Hrs Battery backup



Emergency Call Box (ECB)- Specification

(Clause No. 7.11.3 of RFP Doc.)

PARTICULAR	DETAILS
ECB type	ECB with First Aid Box
Solar	40W
Battery	12v 18Ah
Pole	Single body 3mtr.
Network	Fiber based
Flashlight	Blue flashlight for night (optional)
Media convert	Fiber lane media converter
Solar charge controller	10 amp
Speaker	30W
Eco	Auto control
Push button	12v LED push button
Sticker	Reflector sticker of SOS
ECB box body	MS body with powered coating
Network media converter	2 fiber port with 4 ethernet port
Operation temperature	-15 to 65 degree
Voice logger	Voice logger with FTP save option
IP rating	IP 65

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BOQ -ECB

Item description	Qty	Unit
Emergency Call Box System IP Based & IP 65 Certified	837	Nos
Guardrail	837	Nos
Solar Panel With Controller and UPS with 72Hrs backup	837	Nos
Illuminated Guide signage	3348	Nos
Industrial grade switch with SFP port	837	Nos

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Network architecture



Project Layout – Chardham Mahamarg

a. **Phase 1 (142 Km)** –
   i. NH 7 Rishikesh - Rudraprayag 142 Km

b. **Phase 2 (258 Km)** –
   i. NH 34 Rishikesh - Uttarkashi 120 Km
   ii. NH 7 Rudraprayag - Mana 138 km

c. **Phase 3 (434 Km)** –
   i. SH 15 Uttarkashi - Ghansali-Tilwara 171 Km
   ii. NH 107 Rudraprayag - Kedarnath 76 Km
   iii. NH 134 Dharasu - Yamunotri 76 Km
   iv. NH 34 Uttarkashi - Gangotri 111 Km



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Optical fiber Cable Plan - Chardham Mahamarg

(Clause No. 7.7.7 of RFP Doc.)

01. Key Aspects

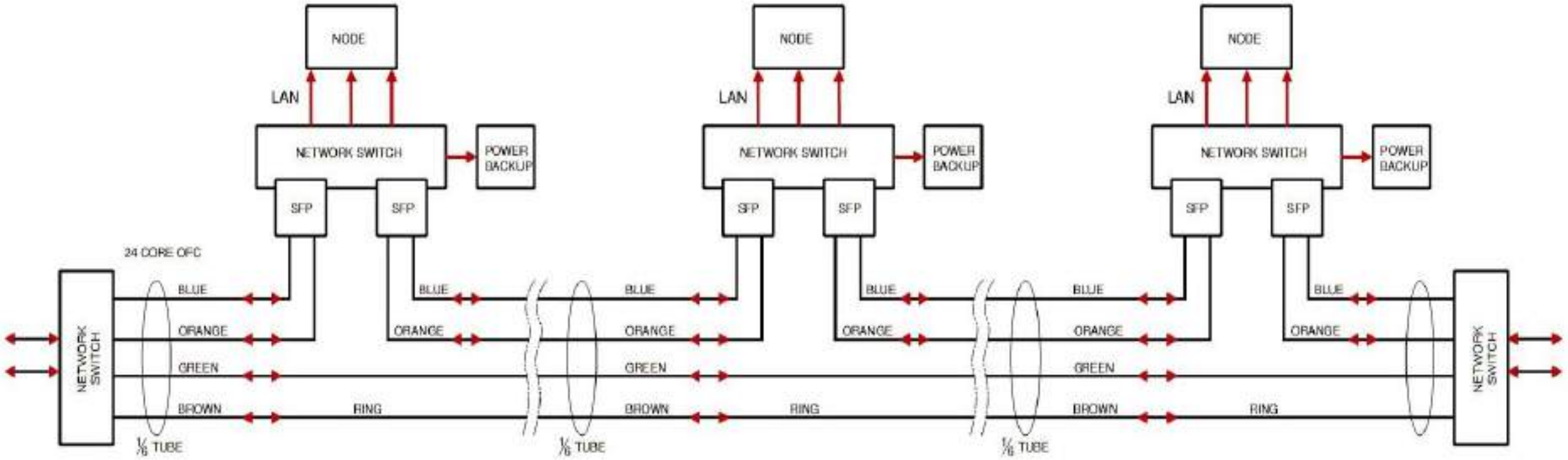
- **Ring Topology for OFC redundancy**
- Solar Power at Key junctions for uninterrupted data transfer
- 100 Meters Loop cable in all Chambers
- IP68 rating enclosures
- -20 to +70 Degree harsh environmental devices selected
- 40/50 PLB Duct
- 24 Core Fiber for backbone withstand harsh environmental conditions, ensuring long-term functionality and safety.
- 6 Core fiber for equipment connections

02. Advantages of Ring Topology

- Ring topology connects each node in a circular manner, Each device is connected to two others, ensuring that data travels in one direction, enhancing reliability.
- Optical Fiber Communication (OFC) leverages this topology to improve speed and performance in data transfer.
- The simplicity of troubleshooting allows for identification of issues, minimizing downtime and operational costs, OFC systems benefit from reduced signal degradation thanks to the efficiency of light transmission within a ring.
- These advantages make ring topology a preferred choice for highways and large enterprises.

Optical fiber Cable Plan - Chardham Mahamarg

(Clause No. 7.7.3 of RFP Doc.)



RING ARCHITECTURE

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Optical fiber Cable Plan - Chardham Mahamarg

01. Network Redundancy

1. As per block diagram. For N nodes (camera, TMCS etc.) one local ring network formed so that , any in between network interruption or one node power loss - does not affect other node connections to control room

2. Power back up: Power loss of switch can affect connections of nodes inside a local ring, in the group, Switches are provided with additional 48 hours battery back up to avoid network disruptions due to power loss at any site.

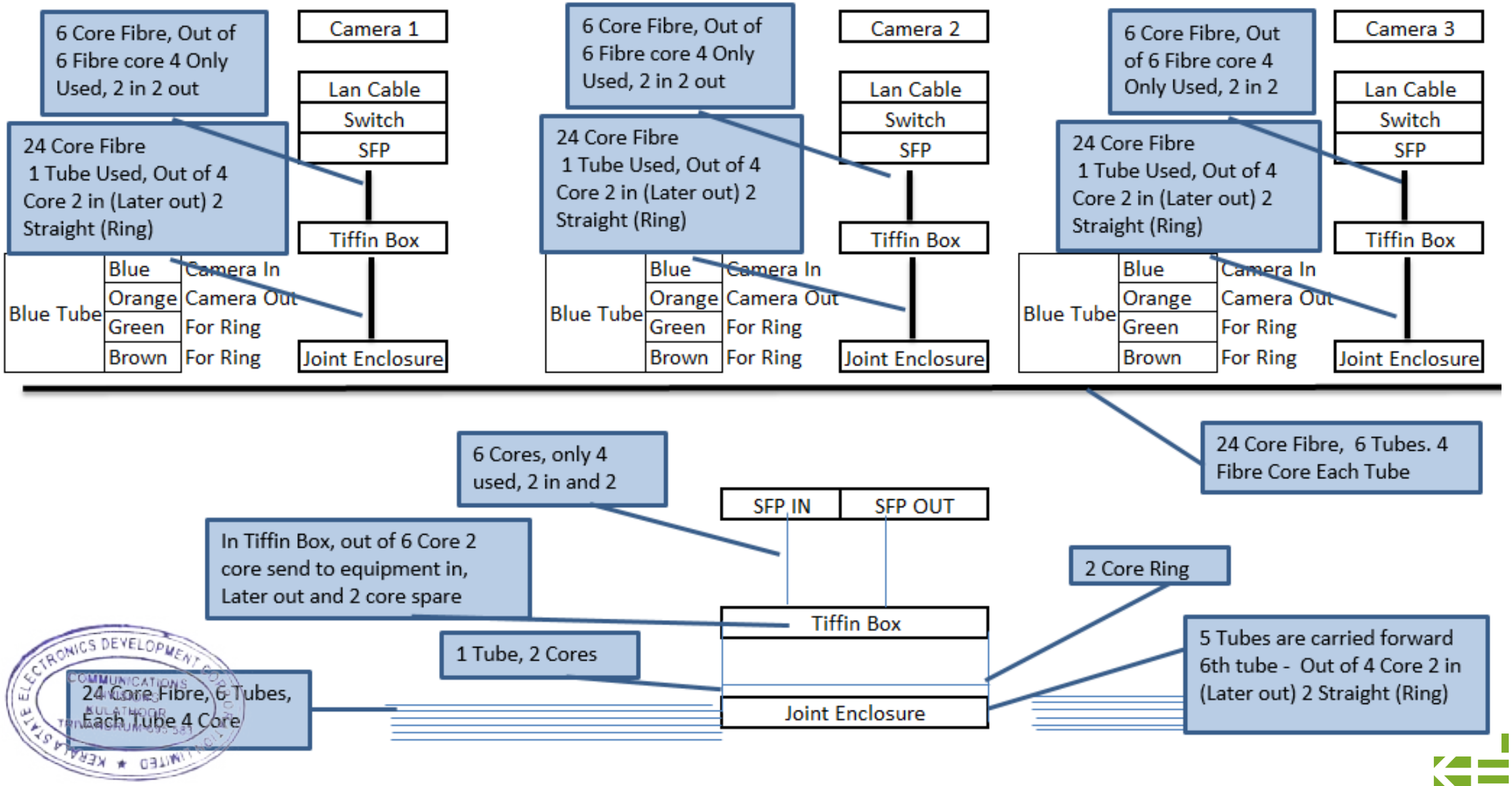
02. Power Redundancy

1. All power sources for all nodes uses Solar + mains power for redundancy as solar power may not be available 24x7.

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Optical Fiber Cable Design – Ring Topology – Chardham Mahamarg

(Clause No. 7.7.3 of RFP Doc.)



Optical Fiber Cable BOQ – Make/Model – Chardham Mahamarg

Sl. No.	Fiber cable-OFC	UOM	Qty	Remarks
1	Supply of 24 core single mode armored OFC Multitube	Mtr	1,400,000	**Indian Make**
2	Supply of 6 core single mode armored OFC Multitube	Mtr	267,500	**Indian Make**
3	1.2m x .60m x .85m (depth) chambers (with concrete cover) with proper reinforcement and minimum M25 grade at every 250m	Nos	1,084	Every 1 KM one Chamber, Each Chamber 100 Mtrs Cable for one side.
4	1.8m x 1.0m x 1.5m (depth) chambers (with concrete cover) with proper reinforcement and minimum M25 grade at every 250m	Nos	1,500	Every One Chamber for Equipment, Each Chamber 250 Mtrs Cable for one side
5	OFC Patch Cord - 1 Mtr Patch Cord Duplex LC-LC	Nos	3,000	**Indian Make**
6	24 CORE Joint Encloser (Bamboo Type)	Nos	2,584	**Indian Make**
7	Loaded LIU 48 PORT (Loaded LIU 48 Port)	Nos	12	**Indian Make**

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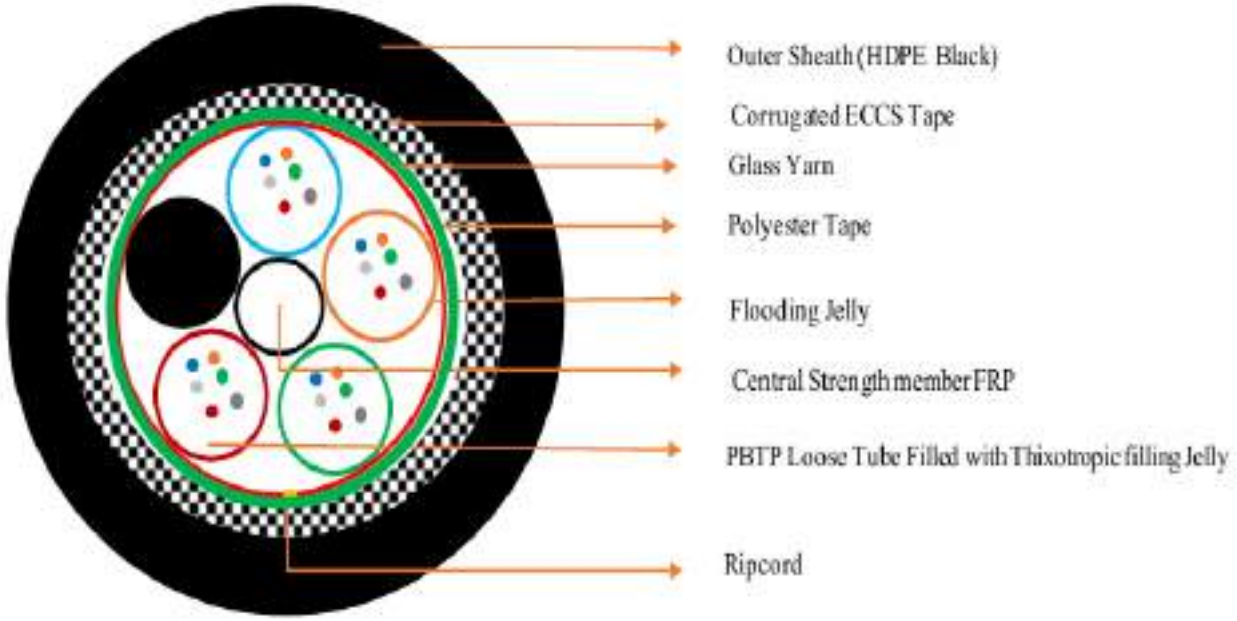
Optical Fiber Cable BOQ – Make/Model – Chardham Mahamarg

Sl. No.	Fiber cable-OFC	UOM	Qty	Remarks
8	Fiber Tiffin Box - Termination Box	Nos	2,675	**Indian Make**
9	SFP - Transmission range 10 G Duplex GOXP-1396-20	Nos	2,675	**Indian Make**
10	40/50 PLB HDPE Duct	KM	566,000	**Indian Make**
11	Industrial Switch (8x1G POE+ 125W 2x1G AND 2xSFP Managed Switch)	Nos	2,675	**Indian Make**
12	Layer 2/3 SFP Switch+2Ethernet Port POE Switch 24 Port	Nos	6	**Indian Make**
13	Layer 2/3 POE Switch - 24 Port	Nos	6	**Indian Make**

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24 Core Fiber Wet Core Cable Specifications – Chardham Mahamarg

(Clause No. 7.7.7.2.1 of RFP Doc.)



01. Physical Characteristics

- Cable Outer Diameter: 9.80 mm ± 0.5 mm
- Cable Length per Drum: 2.0 km ± 10%
- Cable Weight: 95 kg/km ± 15 kg/km

02. Environmental Characteristics

- Operating Temperature: -20 ° C to +70 ° C
- Cable Bend Test: 20 x D (D = Cable Diameter)
- Tensile Strength: 1500 Newton
- Crush Test: 2000 Newton / 100 x 100 mm
- Tests: Conducted per IEC Standards. Change in attenuations shall be ≤ 0.05 dB/km

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24 Core Fiber Wet Core Cable Specifications – Chardham Mahamarg

(Clause No. 7.7.7.2.1 of RFP Doc.)

03. Optical Characteristics

- No. of Fibers per Tube: 6 Fibers
- Fiber Color: Blue, Orange, Green, Brown, Slate & White
- No. of Loose Tubes: 4
- Loose Tubes Color: Blue, Orange, Green & Brown
- No. of Filler/Dummy: 01 No, Black HDPE
- Moisture Barrier: Flooding Jelly
- Core Sequence: Blue, Orange, Green, Brown & Filler-1
- Armoring: Corrugated ECCS Tape (2 Nos. Below)
- Marking Details: Cable No, SLM, Laser & Telephone Symbol, 24F S.M G.657A1, Armored, Year at every 1 Meter of Interval or as per customer requirements
- Mode Field Diameter @ 1310 nm: 8.4 ± 9.4 µm
- Cladding Diameter: 125 µm ± 0.7 µm
- Cladding Non-Circularity: ≤ 0.8%
- Cabled Attenuation at 1310 nm: ≤ 0.36 dB/km

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LIU Unloaded – 24 Ports – Chardham Mahamarg

01. Features

- Cold Rolled Steel as Raw Material
- Consist of Top Cover and Bottom Panel
- Easy to Assemble and Dissemble
- Three Types of Input Holes
- Cable Entry Through Water Proof Cable Clamp
- SC or LC Adapter Interface
- Patch Cord with Bend Radius Guides Minimize Macro Bending
- Comprehensive Accessory Kits for Cable Entry and Fiber Management





02. Specifications

- Adapter Capacity : 6/12/24/48 (SC/LC, Simplex/Duplex)
- Adapter Panels : Fixed on drawer base
- Splice Tray: 1no. for 24 fibers / 2nos. for 48 fibers
- Accessories : Cable management rings (6 no's), Cable glands (PG13.5, 2 no's), Splice rods (24/48 no's), Blanking clips (24 no's), Velcro ties (12 nos.) Cable ties (6 nos.), Cable inlet/outlet hole covers (2 types, 2 no's each)

03. Environmental Characteristics

- Storage Temperature : -20 °C to +70° C
- Installation Temperature : -20 °C to +70° C
- Operating Temperature : -20 °C to +70° C

- **Standards**

  Comply as per ANSI/TIA 568-C.3
  Comply as per ISO/IEC 11801
  RoHS Compliant: Directive2002/95/EC

Central Processing System



Central Processing System

(Clause No. 7.1 of RFP Doc.)

Key Features

Distributed Network

- Five Control Rooms, each equipped with advanced systems, will monitor specific road sections.
- Dedicated fiber or ISP links will ensure reliable and high-speed connectivity between field cameras and their respective Control Rooms.

Local Storage and Centralized Backup

- Offence footage captured by field cameras will be stored locally at each Control Room for immediate access and analysis.
- A round-robin schedule will be implemented to systematically fetch and store this footage at the Central Hub Room, creating a centralized repository.

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Central Processing System

(Clause No. 7.1.2 of RFP Doc.)

Key Features

Centralized Hub Room

- consolidate data from all five Control Rooms, providing a holistic view of traffic enforcement activities
- serves as the nerve center of our operation
- Approved challans will be synchronized with the Central Hub Room's database, acting as a centralized repository
- In the event of a disaster at any Control Room, the Central Hub Room will serve as a reliable backup, ensuring business continuity and data integrity

Redundancy

- All L3 device have redundancy
- All Servers have failover
- All storage are in RAID

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Central Processing System

Key Features

UPS Power

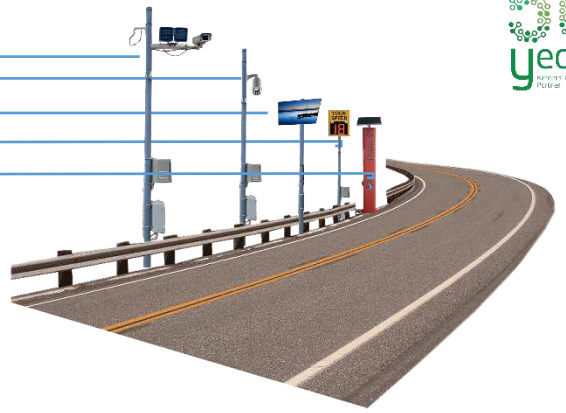
- Deploy multiple UPS systems to provide uninterrupted power supply to critical equipment.
- Ensure sufficient battery backup time to allow for orderly shutdown or generator startup in case of power outages

Generator

- A reliable generator with sufficient capacity to power critical equipment during extended power outages
- Automatic Transfer Switch (ATS) to automatically switch to generator power in case of power failures.



Hub Control Room Logical Architecture



OFC

WWW

42U Rack

ISP 1

ISP 2

Firewall

Firewall

Core Switch

Core Switch

Tor Switch

Tor Switch

WS

ubuntu

Hypervisor

Access Switch

LAN users

Virtual Servers & Storage

Back UP

Bare-metal server

Electric DB

20 KVA UPS

40 KVA Diesel Genset

Control Room Logical Architecture


TMCS



VASD


ECB

OFC


VMS


AIDS


Firewall


Firewall

Core Switch





Tor Switch






Virtual Servers and NVR

Access Switch




LAN users

42U Rack

Electric DB


20 KVA UPS


40 KVA Diesel Genset

Software Architecture



TIMS Software

(Clause No. 7.1.5 of RFP Doc.)

Key Features

Field Layer

- Sensors and cameras: TMCS Cameras, AID System, ANPR Cameras, VASD and VMS
- Traffic Detection System: Automatic Traffic Counters and Classifiers
- Local Processing Unit

Data Acquisition and Processing Layer

- Centralized Data Acquisition module: Collects Video, audio and Data strings.
- Processing Units: Incident Detections, traffic classification and travel time calculation.
- GIS Integration: Real-time location based visualization.

Application Layer

- Traffic Monitoring : Display Live Feeds, events and GIS Visualizations.
- Incident/Accident Management: Automates responses, communication and workflows.
- Integrated Communications : Links emergency services with stake holders.
- Data Analytics and Reporting: Traffic Statistics, operation efficiency, and performance monitoring

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TIMS Software

Key Features

Integration and Communication Layer

- Integration Frame work : Interfaces with VAAHAN, NPCI FasTag Mapper etc..
- Command and Control System : Links regional control rooms to central operations.
- External System : Police Control rooms, Dial112, etc..

User Access Layer

- Web and Mobile Access: Enables authorized stake holders to view and intact with data
- Role – Based Access Control : Ensure secure, tiered access to TIMS functionalities .

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Make In India Components

(Clause No. 3.6.C of RFP Doc.)

PRODUCT	MAKE / MANUFACTURER	COUNTRY OF ORIGIN
Emergency Call box (ECB)		
Emergency call box	SOFTSTAR	INDIA
Connectivity		
OFC	APAR /Radient/ Finolex	INDIA
Switches	DIGISOL	INDIA
Control Room		
Server	Apogean/Hitachi/Cisco	INDIA/Vietnam/Netherlands
Storage	Apogean/Hitachi/HPE	INDIA/Vietnam/US
Tor Switches	Cisco/Juniper/DLINK	Netherlands/US/Taiwan
Firewall	Sonicwall/PaloAlto/Checkpoint	US/Israel
UPS	Vertiv/Numeric/EATON	US/INDIA
Generator	Eicher	INDIA

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Make In India Components

PRODUCT	MAKE / MANUFACTURER	COUNTRY OF ORIGIN
AID - Accident and Incident Detection System and Vehicle Actuated Speed Display		
ANPR Camera	KELTRON	INDIA
IR Flash	KELTRON	INDIA
NVR	KELTRON	INDIA
4D Radar	KELTRON	INDIA
VASD display	PHOTON PLAY	INDIA
Power supply unit with power backup	KELTRON	INDIA
Traffic Monitor Camera System (TMCS)		
PTZ camera	IDIS	South Korea
LPU (Jetson ORIN based architecture)	KELTRON	INDIA
Solar UPS / 24 hours Green UPS	HYKON	INDIA
Variable Message Sign (VMS)		
Variable Message Sign	PHOTON PLAY	INDIA



Make In India Components

PRODUCT	MAKE / MANUFACTURER	COUNTRY OF ORIGIN
SOFTWARE		
Software	KELTRON/TROIS	INDIA
More than 70% components indigenous		



Methodology, Implementation, Time schedule



Approach and Methodology

(Clause No. 3.4.C of RFP Doc.)

Project Inception Phase

- **Execution of agreement**
- **Mobilize Resources**: After the contract is awarded, will mobilize the proposed project team.
- **Project Kickoff Meeting**: Conduct a detailed project kickoff with MoRTH and PMU to confirm the project's scope, timelines, and objectives.
- **Inception Report**: Prepare and submit a Project Inception Report covering:
  - Project concept, understanding, and objectives.
  - Detailed project plan, approach, and methodology for implementation.
  - Governance structure, resource planning, risk assessment, and project deadlines.
  - Status reporting templates, including frequency and formats for progress updates.



Approach and Methodology - Contd..

Requirement Analysis Phase

- **Conduct a Detailed Assessment**:
  - Analyze business needs, technical requirements, and system specifications based on the RFP.
  - Develop a Functional Requirement Specification (FRS) and System Requirement Specification (SRS) with PMU consultation.
- **Field Surveys:**
  - Perform As-Is studies of existing infrastructure, determine key performance indicators (KPIs), and identify gaps
  - Survey field locations, including Command Center sites, for deployment feasibility.
- **Coordination with Utility Services**:
  - Liaise with various road owners for the site permission .
  - Liaise with electricity boards for provisioning power at key locations.



Approach and Methodology - Contd..

System Design Phase

- **Solution Design & Validation**:
  - Design a scalable solution for the TIMS as per the locations and requirements mentioned in the RFP.
  - Ensure compliance with standards and integrate with existing Command Center dashboards .
- **Approval of Designs**
  - Submit detailed design documents, layout plans, and equipment specifications for approval by the TIMS PMU and the Operating Committee.
  - Survey field locations, including Command Center sites, for deployment feasibility.
- **Preparation of Design Deliverables**:
  - Prepare deployment designs, data integration strategies, and interface control documents.



Approach and Methodology - Contd..

Implementation Phase

- **Hardware & Software Deployment**:
  - Complete civil, electrical work required for operational readiness.
  - Procure, install, and configure all required equipment, software, and network components.
  - Deploy AIDS, VASD,TMCS, VMS and ECB as specified.
- **Connectivity Deployment**
  - Deployment of Dedicated or Leased connectivity as per the requirement.
- **Command Center Setup**:
  - Establish the Hub Command Center in Dehradun and control centers in other locations
  - Complete civil, electrical, and interior work required for operational readiness.
- **Documentation & Reporting**:
  - Develop and maintain system documentation, user manuals, and training materials.

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Approach and Methodology - Contd..

Integration & Testing Phase

- **System Integration**:
  - Integrate the TIMS with existing government systems, including police control rooms, emergency response centers, and health department command centers.
- **Testing & Validation**:
  - Perform end-to-end testing of hardware, software, and communication links.
  - Develop a comprehensive testing strategy, covering unit testing, system testing, and user acceptance testing (UAT).
  - Submit UAT reports and ensure resolution of any issues before the Go-Live phase.



Approach and Methodology - Contd..

Go-Live Phase

- **Deployment Planning**:
  - Prepare a detailed Go-Live plan in consultation with MoRTH and the Operating Committee.
  - Define acceptance criteria and obtain approvals for Go-Live from all stakeholders.
- **Commissioning**:
  - Roll out the solution in a phased manner, ensuring all components are fully operational.
  - Conduct training sessions for MoRTH staff and stakeholders.
- **Go –Live:**
  - Declaration of Project to Go- Live Phase.



Approach and Methodology - Contd..

Operations & Maintenance (O&M) Phase

- **Ongoing Support**:
  - Operate and maintain the TIMS, ensuring compliance with Service Level Agreements (SLAs) for system uptime, response times, and incident resolution.
- **Performance Monitoring**:
  - Continuously monitor system performance, generate reports, and provide periodic updates to MoRTH.
- **Incident Management**:
  - Establish a Helpdesk system to handle incidents, problems, and service requests.
- **Periodic Audits**:
  - Conduct periodic audits of system performance, security compliance, and software licenses.
- **Knowledge Transfer & Handover**:
  - Prepare for the project's end-of-life by documenting all processes, training MoRTH personnel, and handing over system management.

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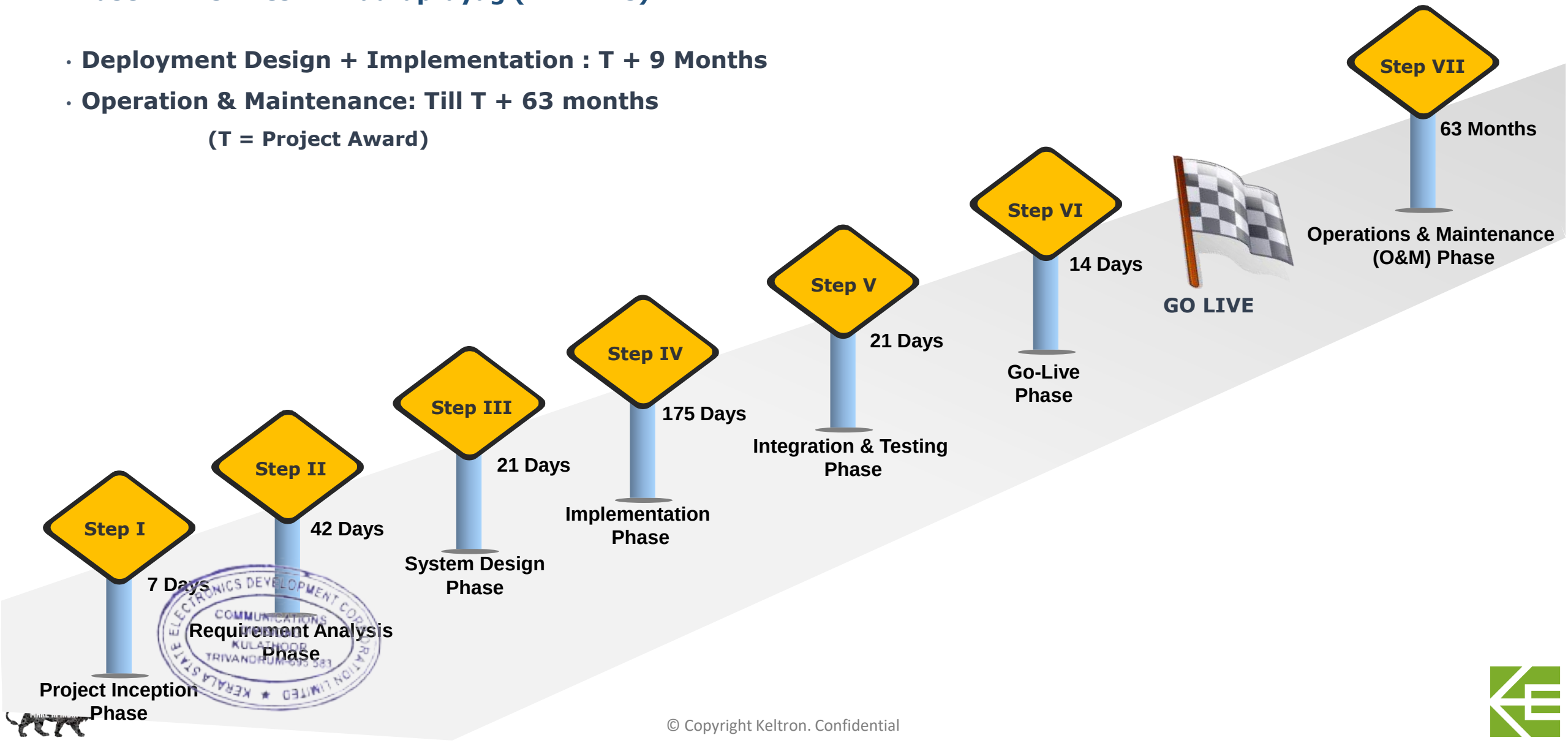
6. Project Plan

(Clause No. 4.1 of RFP Doc.)

Phase I : Rishikesh – Rudraprayag (142 Kms)

- Deployment Design + Implementation : T + 9 Months
- Operation & Maintenance: Till T + 63 months

(T = Project Award)



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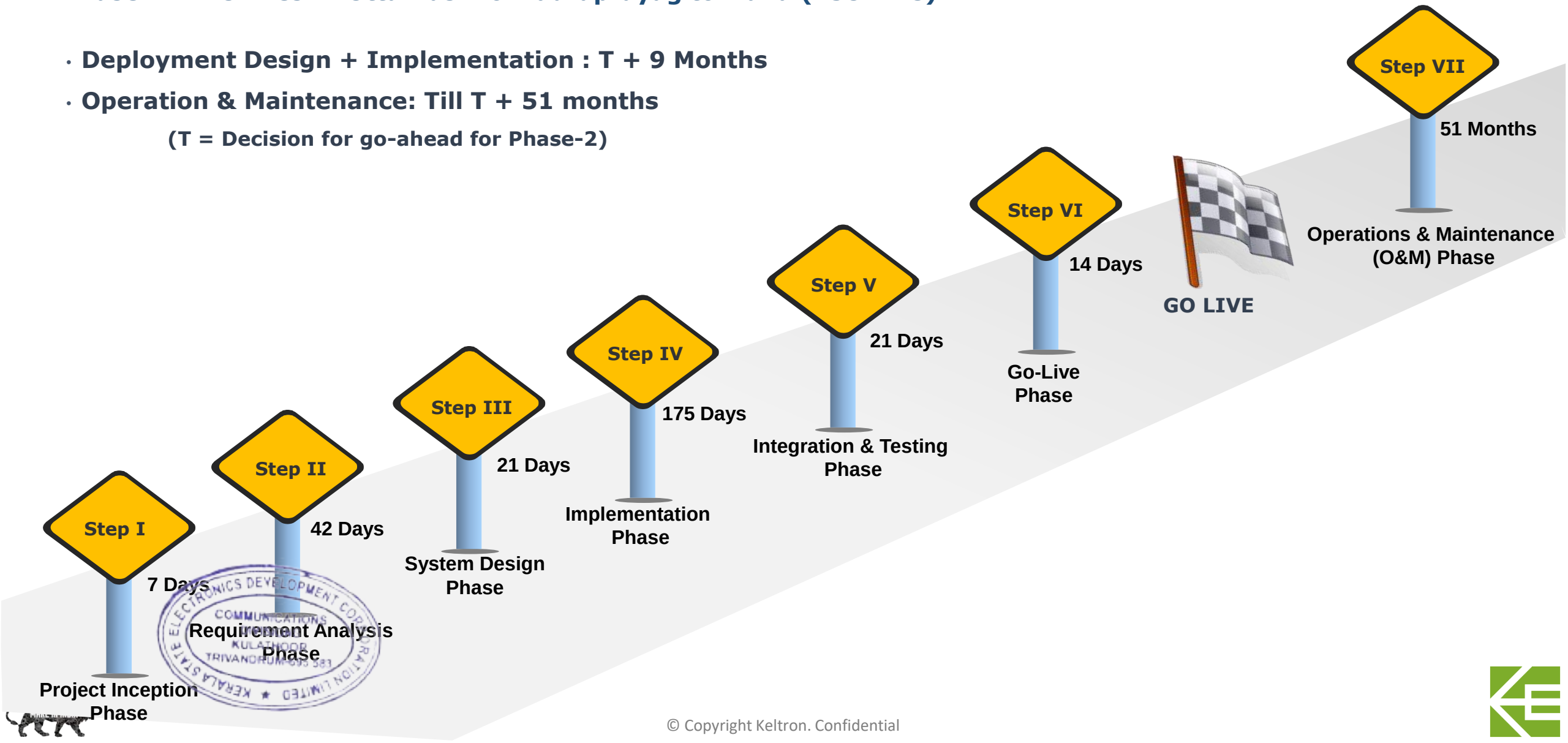
6. Project Plan

(Clause No. 4.1 of RFP Doc.)

Phase II : Rishikesh - Uttarkashi & Rudraprayag to Mana (258 Kms)

- Deployment Design + Implementation : T + 9 Months
- Operation & Maintenance: Till T + 51 months

(T = Decision for go-ahead for Phase-2)



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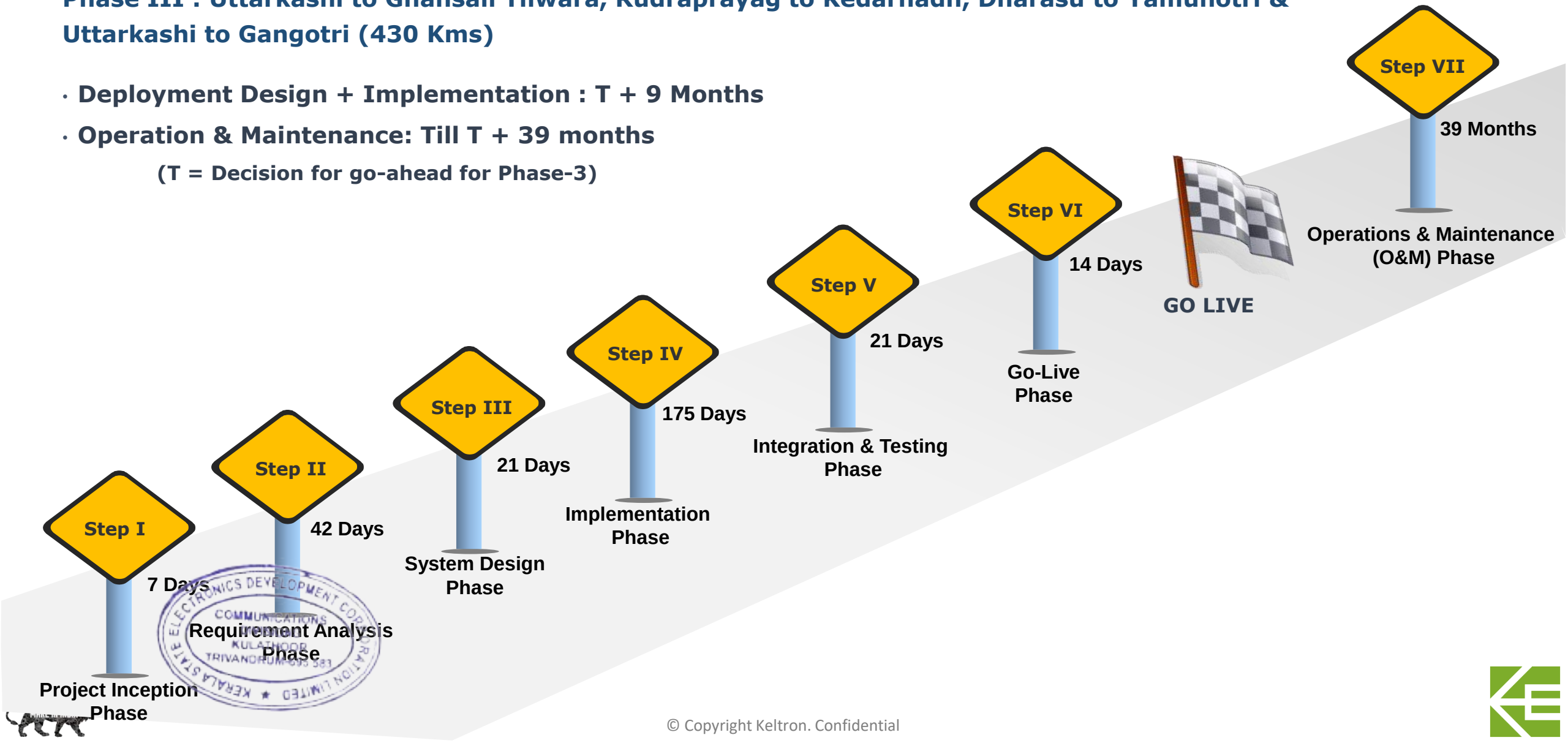
6. Project Plan

(Clause No. 4.1 of RFP Doc.)

Phase III : Uttarkashi to Ghansali Tilwara, Rudraprayag to Kedarnadh, Dharasu to Yamunotri & Uttarkashi to Gangotri (430 Kms)

- Deployment Design + Implementation : T + 9 Months
- Operation & Maintenance: Till T + 39 months

(T = Decision for go-ahead for Phase-3)



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Phase wise Systems Deployment

Systems Phase Wise					
Sl.No	Systems	Phase-I	Phase-II	Phase-III	Total
1	AID	74	142	194	410
2	TMCS	174	505	707	1386
3	ECB	143	259	435	837
4	VMS	7	13	22	42
5	VASD	74	142	194	410





Thank You

KELTRON
A Government of Kerala Undertaking

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Dated: 8th November 2024

Kind Attention,
The Chief Engineer-Regional Office, Dehradun
Ministry of Road Transport and Highways
1st Floor, Institution of Engineers India Building
Near ISBT, Saharanpur Road, Dehradun-248001,
Uttarakhand

Name	**Manish Saini**
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Fax	**+91 22 4294 9333**
Mobile	**+91 9999507035**
E-mail	**manish.saini@efkonindia.com**
Our reference	**MoRTH/EIPL/Response/05**

Subject	Response / Replies to Clarifications for the technical bid
	• **RFP No. RO/UK/TIMS/2023/01 Dated 11.03.2024 – RFP for Selection of System Integrator for Implementing and Maintaining Traffic Incident Management System on the Chardham Marg.** • **Letter Ref no. F. No. RO/UK/TIMS/2023/01 dated 30.10.2024 - requesting clarifications with respect to Technical Bid.**

Dear Sir,

We acknowledge the receipt of your email dated 30.10.2024 and your letter Ref. no.: F. No. RO/UK/TIMS/2023/01 dated 30.10.2024, requesting clarifications with respect to Technical Bid.

Please find our replies/ clarifications along with supporting documents enclosed herewith.

In case you have any specific queries / clarifications, please let us know via email so that we can clarify the same.

Thanking you and always assuring our best attention.

For Consortium of EFKON India Private Limited and STRABAG AG

Authorized Signatory

Name: Manish Saini
Designation: Lawful Attorney
Date: 8th November 2024

Sandeep Murarka
Lawful Attorney

EFKON INDIA PVT. LTD.

Response to Clarifications sought for Selection of System Integrator for Implementing and Maintaining Traffic Incident Management System on the Char Dham Highway in the State of Uttarakhand

Sr. No. 1	Clarifications Sought	Bidder's Reply
1	1.1 As per the technical bid submission, two camera models have been mentioned for deployment i.e. Dome camera, Bullet camera, ANPR camera and PTZ camera. It is requested to clarify that which camera type / mode & make is proposed to be deployed for which system. Also, kindly share if there are any other camera models that are part of the system design	Please find below the details of the Make and models proposed for different types of Cameras System / Camera Type / Make / Model TMCS / PTZ / Sparsh / SS-EN232P-III ANPR & AIDS / BOX / Sparsh / SC-NDC2MP-IAZ(S) Building/Control Room Surveillance / Dome & Bullet / Sparsh / SC-NDC2MP-IAZ(S), SC-NDC2MP-IAZ(S)
2	1.2 With reference to the requirement of submitting the Mean Time Between Failure (MTBF) reports for the camera equipment, we seek clarification regarding the MTBF report submitted for proposed cameras models for deployment for comprehensive traffic surveillance and automatic incident detection systems [redacted] Refer to the criteria in the RFP document, "Clause 3.5 - Eligibility criteria", special instructions for OEMs/ bidder, point no. 6 # page no. 28 which mentions specific details that should be considered as part of the MTBF report such as i. Calculation Background ii. Lifespan Prediction iii. Board MTBF calculation Results iv. Unit and Set Level MTBF Calculation Results v. Unit and Set Level B10 MTBF Calculation Results vi. Detection Precision using MTBF Kindly provide detail information regarding coverage of the above six parameters within the submitted MTBF reports / OEM Undertaking for all the proposed camera equipment.	In response to the request for clarification regarding the six specific parameters outlined in the MTBF report for our proposed cameras, we would like to address each point and provide additional context. Firstly, please note that NABL and STQC labs in India conduct MTBF testing in line with standard reporting practices. Our submitted MTBF reports already includes most of the essential parameters, while some requested items are summary conclusions derived from standard MTBF calculations. **Calculation Background:** As per standard and standard laboratory procedure. **Lifespan Prediction:** The lifespan prediction is effectively represented by combining the failure rate with MTBF results, which gives a reliable estimate of the product's operational life. **Board MTBF Calculation Results:** The individual board MTBF calculation is generally considered insignificant in standard MTBF reports, as the focus is on the cumulative MTBF of the entire product. A camera is expected to perform reliably as a complete unit only, not as isolated components. This is why standard STQC labs do not include separate board-level results in their reports. **Unit and Set Level MTBF Calculation Results:** Similar to board level calculations, unit and set level MTBF results are not typically separated in standard MTBF reports. The performance of the complete product is prioritized, which aligns with industry practices. **Unit and Set Level B10 MTBF Calculation Results:** Likewise, separate B10 MTBF calculations on the unit and set levels do not add value to the overall reliability assessment of the product and hence these are not mentioned in standard reports provided by Indian labs. These specific parameters are provided only by some foreign labs / vendors, which are not relevant with 'Make in India' policy. **Detection Precision Using MTBF:** Detection precision is essentially represented by the failure rate only, which is already included in the MTBF report. We would like to highlight that lab conducts the test as per standards and hence the process remains same for all labs, however the parameters which are mentioned in test report may be specific to labs. The MTBF reports we submitted summarize a comprehensive reliability assessment in line with standard testing practices as per standard format of Indian labs. However, should further clarification be required, we are available to discuss and elaborate these reports. **Please refer page no. 4 to 6 of this document for detailed test reports, covering above parameters for proposed cameras.**

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Response to Clarifications sought for Selection of System Integrator for Implementing and Maintaining Traffic Incident Management System on the Chardham Yatra Marg in the State of Uttarakhand		
Sr. No. #	Clarifications Sought	Bidder's Reply
3	3.3 Refer to the criteria in the RFP document, "Clause 3.5 - Eligibility criteria", point no. 7 of the Note section at page no. 38, where in the OWASP (Security certificate issued by STQC (Ministry of Electronics & Information Technology) or any other Agency) and the Indian CERT-In empanelled Information Security Auditing Organisation, had to be submitted complying to the following: i. All Cameras should be minimum OWASP L2 Appendix "C" Compliant before supply of equipment	We have submitted Essential Requirements (ER) Certificate issued by STQC, in compliance with the latest Quality Notification No. CG-DL-E-08032024-252738, issued by the Ministry of Electronics and Information Technology (MeitY) on March 8th. This notification mandates that all government tenders involving CCTV equipment must strictly follow the updated guidelines, requiring that all CCTV products supplied for government projects hold the ER certification from the Standardization Testing and Quality Certification (STQC) Directorate. The ER Certification encompasses OWASP ASVS Level 2, Appendix "C" and mandates a supply chain audit to ensure that critical components and software source code have not been sourced from any country sharing a landborder with India, as this could pose a national security threat. Initially, we were audited as per OWASP guidelines; however, MeitY subsequently updated the standards and reassessed our certification in line with ER requirements, ultimately issuing us the ER certificate. Since the ER certificate supersedes the OWASP Application Security Verification Standard (ASVS) v4.0 Level 2, we submitted only the ER certificate during the bid submission. As the query has been raised, we are also providing earlier issued OWASP L2 Appendix "C" compliance certificates. Please refer page no. 614 to 617 for OWASP compliance certificates of this document. Both Certificate has same expiry date which also gives the ER certificate a new version of earlier OWASP certificate. Although we hold both certifications. As per the latest guidelines issued by MeitY (Essential Requirements (ERs) modified as per the PPO for CCTV in Gazette of India (EXTRAORDINARY, PART II—Section 3—Sub-section (i) dated 7th March, 2024, at Sr. No. 1082) issued by MeitY, the requirement for security and other critical parameters for Make in India products are ensured. Additionally, STQC has removed other OWASP L2 certificates for brands that have yet to complete the supply chain verification from their website, ensuring that only those meeting the latest ER standards are recognized as compliant. The Essential Requirement certificate encompasses OWASP L2 test cases along with supply chain audits, which can be verified through the documents available on the STQC website at the following link: https://www.stqc.gov.in/sites/default/files/2024-03/IoTSCS-P01-Procedure%20for%20CCTV%20Testing%20Evaluation%20and%20Certification.pdf
	4. All software's should be OWASP Top 10 Compliant before supply of equipment. Kindly provide clarification on the above points for compliance with the OWASP certificate requirement, for further evaluation.	Yes, we have submitted self declaration for compliance against this requirement of the EFP in our Technical Bid (Please refer page 1138 to 1154 of 1984). We hereby undertake that all proposed software and Cameras in this project shall be OWASP Top 10 compliant before supply of the equipment. Please find the copies of the declaration (enclosed at Page no. 648 to 661 of this document.

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MTBF REPORTS



MTBF Report Summary

Model	SS-EN212P-(I)
Calculation Background	Reliability, Defect, Failure Prediction, Temperature: Calculations conducted at 40°C
Lifespan Prediction	Lifespan prediction is effectively represented by combining the failure rate with MTBF results, which gives a reliable estimate of the product's operational life.
Failure Rate	9171.571938 failures per million hours.
MTBF (Mean Time Between Failures)	109,032 hours.
Board-Level MTBF Calcu ation	Cumulative MTBF results are available in the report which is 109,032 hours.
Unit and Set-Level MTBF Calculation	Cumulative MTBF results are available in the report which is 109,032 hours.
810 MTBF Calculation Results	Component-wise failure rate is already available in the report.
Defection Prediction Using MTBF	Failure rate is same Defection Prediction available in the report as 9171.571938 failures per million hours.

Model No.	SC-IND52DP-I(Z)(S)
Calculation Background	Reliability, Defect, Failure Prediction, Temperature: Calculations conducted at 40°C
Lifespan Prediction	The lifespan prediction is effectively represented by combining the failure rate with MTBF results, which gives a reliable estimate of the product's operational life.
Failure Rate	3.886916 failures per million hours
MTBF (Mean Time Between Failures)	257,273.39 hours
Board-Level MTBF Calculation	Cumulative MTBF results are available in the report which is 257,273.39 hours.

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Unit and Set-Level MTBF Calculation	Cumulative MTBF results are available in the report which is 257,273.39 hours.
B10 MTBF Calculation Results	Component-wise failure rate is already available in the report.
Defection Prediction Using MTBF	Failure rate is same Defection Prediction available in the report as 3.886916 failures per million hours.

Model No	SC-IND528P-I(Z)(S)
Calculation Background	Reliability, Defect, Failure Prediction, Temperature: Calculations conducted at 40°C
Lifespan Prediction	Lifespan prediction is effectively represented by combining the failure rate with MTBF results, which gives a reliable estimate of the product's operational life.
Failure Rate	1.684128 failures per million hours.
MTBF (Mean Time Between Failures)	593,779.10 hours
Board-Level MTBF Calculation	Cumulative MTBF results are available in the report which is 593,779.10 hours
Unit and Set-Level MTBF Calculation	Cumulative MTBF results are available in the report which is 593,779.10 hours
B10 MTBF Calculation Results	Component-wise failure rate is already available in the report
Defection Prediction Using MTBF	Failure rate is same Defection Prediction available in the report as 1.684128 failures per million hours

Model No.	SC-IND22XP-I(Z)(S)
Calculation Background	Reliability, Defect, Failure Prediction, Temperature: Calculations conducted at 40°C
Lifespan Prediction	Lifespan prediction is effectively represented by combining the failure rate with MTBF results, which gives a reliable estimate of the product's operational life.
Failure Rate	9.7008247 failures per million hours.
MTBF (Mean Time Between Failures)	103084.02 hours
Board-Level MTBF Calculation	Cumulative MTBF results are available in the report which is 103084.02 hours.

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Unit and Set-Level MTBF Calculation	Cumulative MTBF results are available in the report which is 103084.02 hours.
B10 MTBF Calculation Results	Component-wise failure rate is already available in the report.
Defection Prediction Using MTBF	Failure rate is same Defection Prediction available in the report as 9.7008247 failures per million hours.

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MTBF

(MODEL NO. - SS-EN212P-(I))

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Report No.CFR/2024/1827

Report on

RELIABILITY PREDICTION

OF

PTZ Camera Model No.: SS-EN212P-(I)

as per Telcordia SR-332, Issue 4

ETDC & CFR & MeitY
12 AUG 2024
GOVT. OF INDIA - CHENNAI-41

CENTRE FOR RELIABILITY
STQC DIRECTORATE
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TERMS AND CONDITIONS

1. This report refers only to the sample actually subjected to Reliability Analysis.
2. The analysis report provided is solely based on a theoretical estimation for predicting reliability.
3. The accuracy and validity of the reliability prediction cannot be guaranteed due to its theoretical nature
4. The analysis report should be used for informational purposes only and should not be solely relied upon for making critical decisions
5. The analysis report issued by the Centre is not to be used for any legal purposes and shall not be produced in the court of Law.
6. The analysis report shall not be misused knowingly or unknowingly.
7. The analysis report must be reproduced in full and in no case, this should partially be re-produced.
8. The report shall not be regarded in any way diminishing the contractual requirements between the buyers and sellers.
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10. The report provided by the Centre to the client is for the benefit and guidance of the Client only and not intended for communication to a broader audience.
11. The Centre and the Client have arrived at the extent and depth of testing that can reasonably be achieved in the light of Client's other constraints and the product's design and reliability.
12. The Centre shall have no liability for any damages to the Client or consequential damages (including lost profits) of the Client or any third party, even if the Centre has been advised of the possibility of such damages.
13. The reports shall not in any way be construed as approval of any product by the Centre.
14. The conditions are subject to change/modification without any prior notice.
15. The Centre does not endorse the intellectual property risks, if any, claimed by the client for the product.
16. The responsibility of confirming the correctness of the performance of the product is of the client and NOT that of the Centre. The Centre has only checked the Reliability/Failure of the product assuming that the performance/functionality are correct and appropriate
17. In case of any disputes, the decision of the Director, CFR, Chennai shall be final and binding.

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CENTRE FOR RELIABILITY, CHENNAI STQC DIRECTORATE MINISTRY OF ELECTRONICS & INFORMATION TECHNOLOGY GOVERNMENT OF INDIA	Report No. CFR/2024/1827 Page 1 of 8
Reliability Prediction Report on **PTZ Camera Model No.: SS-EN212P-(I)**	**Date of Issue** 12-08-2024

1.0 SCOPE

1.1 Service request no. : 1827/ 2024

1.2 Name & Address of the Client : Samriddhi Automations Pvt. Ltd.
PLOT NO. 75
Sector – 7, IIE SIDCUL
HARIDWAR – 249403.

1.3 Description : **PTZ Camera**
Model No.: SS-EN212P-(I)

1.4 Project : Received Date : 26-07 -2024
Completed Date 02-08-2024

1.5 (a) Standard/ Analysis / Test Procedure Ref. : Telcordia SR-332, Issue 4

(b) Scope : Reliability Prediction by Parts Count Method

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2.0 INTRODUCTION

This report presents the results of Reliability Prediction Analysis performed on **PTZ Camera Model No.: SS-EN212P-(I)** as per Telcordia SR-332, Issue 4 as depicted in Figure 1.0 and Figure 2.0. This exercise was performed under **Ground Fixed, Uncontrolled (Moderate)** environment as requested by M/s Samriddhi Automations Pvt. Ltd., F-365, Sector 63, Noida-201307.

Reliability Prediction is the process of quantitatively assessing whether a proposed or actual equipment design will meet a specified reliability requirement. Reliability Prediction has various applications in the design and development process including substantiating quantitative design comparisons with competitive products, selecting warranty periods, advertising and marketing. It provides guidance, relative to expected inherent reliability of a given design.

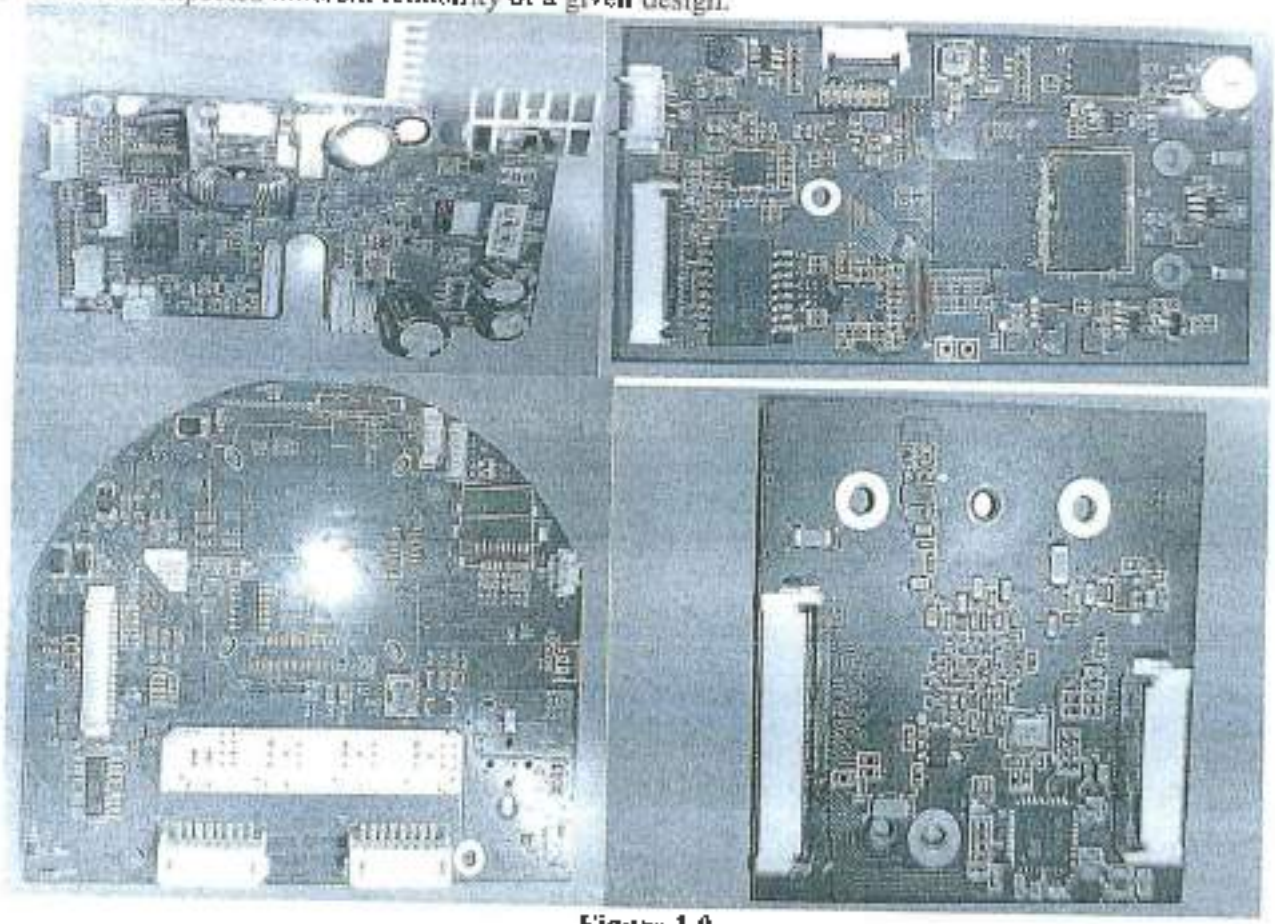


Figure 1.0

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Figure 2.0

3.0 APPLICABLE DOCUMENTS AND TOOLS

Telcordia SR-332, Issue 4 - Reliability Prediction Procedure for Electronic Equipment

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4.0 RELIABILITY PREDICTION OBJECTIVES

Objectives of this analysis are to estimate the Mean Time between Failure (MTBF) of **PTZ Camera Model No.: SS-EN212P-(I)** using Telcordia SR-332, Issue 4 and to obtain quantitative design information as applicable. The main objectives are:

a. Provide an estimate of the steady-state failure rates for devices based on generic reliability parameters and obtain feasibility evaluation.

b. Provide feedback for designers.

c. Identify potential problem areas during design review.

d. Provide MTBF of the system and subassemblies and failure rate of system/subassemblies/ Components.

5.0 SR-332, Method I: Unit Steady-State Failure Rate Parts Count Method - ASSUMPTIONS

Reliability Prediction using SR-332, Method 1, Unit Steady-State Failure Rate Parts Count Method for reliability prediction operates under the following assumptions: assumes a serial relationship between parts of the system, in which, failure of any part constitutes system failure. The model also assumes that

a. At the device level, it is assumed that no detailed reliability data is available. Predictions are based on generic reliability parameters.

b. Predictions are made using generic reliability parameters as specified in the relevant sections of SR-332, which are applied to estimate steady state failure rates.

c. At the unit level, failure rate predictions are based solely on the failure rates of the individual devices that compose the unit, without considering interactions between devices.

d. This method primarily estimates steady-state failure rates and does not specifically account for infant mortality failures (early-life failures) or wear out failures (end-of-life failures). It assumes a constant failure rate.

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6.0 SR-332, Method I: Unit Steady-State Failure Rate Parts Count Method: Factors

Method 1: Unit Steady-State Failure Rate Using the Parts Count Method primarily estimates reliability by calculating the steady-state failure rate of a device using a set of generic parameters. It takes into account the following factors:

6.0.1 Number of component of each Type.

6.0.2 Mean Generic Steady-State Failure Rate.

6.0.3 Temperature factor.

6.0.4 Environmental factor.

6.0.5 Quality factor.

6.0.6 Electrical Stress Factor.

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7.0 ENVIRONMENTAL CONDITIONS

7.1 STORAGE AND OPERATIONAL ENVIRONMENT

The Reliability Prediction has been performed using **Ground Fixed, Uncontrolled (Moderate)** Environment based on the operational conditions of **PTZ Camera Model No.: SS-EN212P-(I).**

GROUND FIXED, UNCONTROLLED (Moderate):

The environment involves moderate to high vibration/shock stress, low to moderate atmospheric variations, and moderate to high temperature cycling stresses, assuming a ruggedized enclosure provides protection.

TEMPERATURE

Reliability Prediction has been performed on **PTZ Camera Model No.: SS-EN212P-(I)** at the **Ambient Temperature of 40 °C for Ground, Fixed, Uncontrolled (Moderate) Environment.**

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8.0 REPORTS

Telcordia SR-332 Parts List Report
It gives the overall parts list that go into the blocks. It consists of component description, category description, part name, circuit reference, quantity and part number information.

Telcordia SR-332 Failure Rate Report
It consists of component level failure rate report. This list of components, its reference, description, type, quantity, and failure rates are indicated. It gives percentage contribution of the block/sub blocks components towards the total system failure rate.

Telcordia SR-332 Pi Factors Report
It consists of lists of component description, type, environment, quality, quantity, component specific parameters & their values and failure rates. The Stress Pi factors for each component are shown in the report.

Telcordia SR-332 Parameters Report
It consists of lists of components Physical and Application Parameters.

The above 4 reports are enclosed as Annexure I, II, III, IV

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9.0 System Analysis Summary

The overall estimated MTBF and Failure Rate as per Telcordia SR-332 of **PTZ Camera Model No.: SS-EN212P-(I), submitted for reliability prediction analysis by** M/s Samriddhi Automations Pvt. Ltd. are summarized as follows:

SYSTEM : **PTZ Camera**
Model No.: SS-EN212P-(I)

Environment	Ambient Temperature	FAILURE RATE (FITS)	MTBF (hours)
Ground Fixed, Uncontrolled (Moderate)	40°C	9171.571938	109032.5835

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Report No. CFR/2024/1827
(40 Pages)

Annexure- I

Telcordia SR-332

PARTS LIST REPORT

(Temperature 40℃)

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TELCORDIA SR-332 PART LIST REPORT

Name: SS-EN212-P(I)
Failure Rate (- F TS): 9171.571935
MTBF: 109032.5635

Name	Part Number	Category Description	Device Type	Description	Quantity
1		Main Board			
1.1	RC0402DR-0754K9L	Resistor	FILM (Carbon, Oxide, Metal)	54.9KΩ 0402	1
1.2	RC0402DR-0733K2L	Resistor	FILM (Carbon, Oxide, Metal)	33.2KΩ 0402	1
1.3	RC0402DR-071KL	Resistor	FILM (Carbon, Oxide, Metal)	1KΩ 0402	1
1.4	RC0402DR-071KL	Resistor	FILM (Carbon, Oxide, Metal)	1KΩ 0402	1
1.5	RC0402DR-071KL	Resistor	FILM (Carbon, Oxide, Metal)	1KΩ 0402	1
1.6	RC0402DR-071KL	Resistor	FILM (Carbon, Oxide, Metal)	1KΩ 0402	1
1.7	RC0402DR-071KL	Resistor	FILM (Carbon, Oxide, Metal)	1KΩ 0402	1
1.8	RC0402DR-071KL	Resistor	FILM (Carbon, Oxide, Metal)	1KΩ 0402	1
1.9	RC0402DR-071KL	Resistor	FILM (Carbon, Oxide, Metal)	1KΩ 0402	1
1.10	RC0402DR-071KL	Resistor	FILM (Carbon, Oxide, Metal)	1KΩ 0402	1
1.11	RC0402DR-0725K5L	Resistor	FILM (Carbon, Oxide, Metal)	25.5KΩ 0402	1
1.12	RC0402DR-0720KL	Resistor	FILM (Carbon, Oxide, Metal)	20KΩ 0402	1
1.13	RC0402DR-0710KL	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0402	1
1.14	RC0402DR-0710KL	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0402	1
1.15	RC0402DR-0710KL	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0402	1
1.16	RC0402DR-0710KL	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0402	1
1.17	RC0402DR-0710KL	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0402	1

Analyst: A Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jamboolingam
Approved By: R Radhika

Name	Part Number	Category Description	Device Type	Description	Quantity
1.18	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.19	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.20	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.21	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.22	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.23	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.24	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.25	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.26	RC0201JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0201	1
1.27	RC0201JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0201	1
1.28	RC0201JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0201	1
1.29	RC0201JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0201	1
1.30	RC0201JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0201	1
1.31	RC0201JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0201	1
1.32	RC0201JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0201	1
1.33	RC0201JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0201	1
1.34	RC0201JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0201	1
1.35	RC0201JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0201	1
1.36	RC0201JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0201	1
1.37	RC0201JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0201	1
1.38	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1

Analyst: N Venkata Naga Aravind & Anuram Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R.Rachika

Name	Part Number	Category Description	Device Type	Description	Quantity
1.39	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
1.40	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
1.41	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
1.42	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
1.43	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
1.44	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
1.45	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
1.46	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
1.47	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
1.48	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
1.49	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
1.50	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
1.51	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
1.52	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
1.53	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
1.54	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
1.55	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
1.56	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
1.57	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
1.58	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
1.59	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1

Analyst : N.Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V.Jambulingam
Approved By: R.Rachika

Name	Part Number	Category Description	Device Type	Description	Quantity
1.60	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
1.61	RC0402DR-C722RL	Resistor	FILM (Carbon, Oxide, Metal)	22Ω 0402	1
1.62	RC0402DR-C722RL	Resistor	FILM (Carbon, Oxide, Metal)	22Ω 0402	1
1.63	RC0402DR-C722RL	Resistor	FILM (Carbon, Oxide, Metal)	22Ω 0402	1
1.64	RC0402DR-C722RL	Resistor	FILM (Carbon, Oxide, Metal)	22Ω 0402	1
1.65	RC0402DR-C722RL	Resistor	FILM (Carbon, Oxide, Metal)	22Ω 0402	1
1.66	RC0402DR-C722RL	Resistor	FILM (Carbon, Oxide, Metal)	22Ω 0402	1
1.67	RC0402DR-C722RL	Resistor	FILM (Carbon, Oxide, Metal)	22Ω 0402	1
1.68	RC0402DR-C722RL	Resistor	FILM (Carbon, Oxide, Metal)	22Ω 0402	1
1.69	RC0402DR-C722RL	Resistor	FILM (Carbon, Oxide, Metal)	22Ω 0402	1
1.70	RC0402DR-C722RL	Resistor	FILM (Carbon, Oxide, Metal)	22Ω 0402	1
1.71	RC0402DR-C733RL	Resistor	FILM (Carbon, Oxide, Metal)	33Ω 0402	1
1.72	RC0201DR-071KL	Resistor	FILM (Carbon, Oxide, Metal)	1KΩ 0201	1
1.73	RC0201DR-071KL	Resistor	FILM (Carbon, Oxide, Metal)	1KΩ 0201	1
1.74	RC0201DR-071KL	Resistor	FILM (Carbon, Oxide, Metal)	1KΩ 0201	1
1.75	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.76	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.77	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.78	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.79	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.80	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1

Analyst : N Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambunagam.
Approved By: R Radhika

Name	Part Number	Category Description	Device Type	Description	Quantity
1.81	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.82	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.83	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.84	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.85	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.86	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.87	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.88	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.89	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.90	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.91	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.92	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.93	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.94	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.95	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.96	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
1.97	RC0402DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	100KΩ 0402	1
1.98	RC0402DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	100KΩ 0402	1
1.99	RC0402DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	100KΩ 0402	1
1.100	RC0402DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	100KΩ 0402	1
1.101	RC0402DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	100KΩ 0402	1

Analyst : N Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R.Radhika.

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Name	Part Number	Category Description	Device Type	Description	Quantity
1.102	RC0402DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	100KΩ 0402	1
1.103	RC0402DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	100KΩ 0402	1
1.104	RC0402DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	100KΩ 0402	1
1.105	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.106	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.107	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.108	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.109	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.110	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.111	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.112	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.113	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.114	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.115	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.116	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.117	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.118	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.119	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.120	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.121	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.122	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1

Analyst: N Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R.Radhika

Name	Part Number	Category Description	Device Type	Description	Quantity
1.123	CC04U2KRX7R9BB1U4	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1 124	CCD4N2K3X7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.125	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1 126	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.127	CC0402<RX7R9BB1C4	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.128	CCD402K3X7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1 129	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1 130	CC0402<RX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.131	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.132	CC0402KRX7R93B104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
133	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
134	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
135	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1 136	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1 137	CC0402<RX7R9BB1C4	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.138	CCD4D2KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1 139	CC04D2KRX7R93B104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.140	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.141	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1 142	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1 143	CCC603KRX5R8BB1C6	Capacitor	Fixed, Ceramic	10uF±10% 25V 0603	1

Analyst: N Venkata Naga Aravind & Anucam Anand
Compiled By: Shubham Kumar & V Jambulingam.
Approved By: R Rashika

Name	Part Number	Category Description	Device Type	Description	Quantity
1.144	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0603	1
1.145	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0603	1
1.146	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0603	1
1.147	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0603	1
1.148	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0603	1
1.149	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0603	1
1.150	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0603	1
1.151	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0603	1
1.152	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0603	1
1.153	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0603	1
1.154	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0603	1
1.155	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0603	1
1.156	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0603	1
1.157	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0603	1
1.158	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0603	1
1.159	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0603	1
1.160	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0603	1
1.161	CC0402KRX5R9BB224	Capacitor	Fixed, Ceramic	0.22uF±10% 50V 0402	1
1.162	CC0402KRX5R9BB224	Capacitor	Fixed, Ceramic	0.22uF±10% 50V 0402	1
1.163	CC0402KRX5R9BB224	Capacitor	Fixed, Ceramic	0.22uF±10% 50V 0402	1
1.164	CC0402KRX5R9BB224	Capacitor	Fixed, Ceramic	0.22uF±10% 50V 0402	1

Analyst : V.Venkata Naga Aravind & Anupam Anand
Compiled by: Shubham Kumar & V Jamuna
Approved By: R.Radhika

Name	Part Number	Category Description	Device Type	Description	Quantity
1 165	CC0402KRX5R9BB224	Capacitor	Fixed, Ceramic	0.22uF±10% 50V 0402	1
1 166	CC0402KRX5R9BB224	Capacitor	Fixed, Ceramic	0.22uF±10% 50V 0402	1
1.167	CC0402KRX5R9BB224	Capacitor	Fixed, Ceramic	0.22uF±10% 50V 0402	1
1.168	CC0402KRX5R9BB224	Capacitor	Fixed, Ceramic	0.22uF±10% 50V 0402	1
1 169	CC0402KRX5R9BB224	Capacitor	Fixed, Ceramic	0.22uF±10% 50V 0402	1
1 170	CC0402KRX5R9BB224	Capacitor	Fixed, Ceramic	0.22uF±10% 50V 0402	1
1 171	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	4.7uF±10% 50V 0402	1
1.172	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	4.7uF±10% 50V 0402	1
1 173	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	4.7uF±10% 50V 0402	1
1 174	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	4.7uF±10% 50V 0402	1
1 175	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	4.7uF±10% 50V 0402	1
1 176	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	4.7uF±10% 50V 0402	1
1 177	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	4.7uF±10% 50V 0402	1
1 178	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	4.7uF±10% 50V 0402	1
1 179	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	4.7uF±10% 50V 0402	1
1 180	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	4.7uF±10% 50V 0402	1
1.181	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	4.7uF±10% 50V 0402	1
1.182	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	4.7uF±10% 50V 0402	1
1.183	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	4.7uF±10% 50V 0402	1
1 .84	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	4.7uF±10% 50V 0402	1
1 185	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	4.7uF±10% 50V 0402	1

Analyst : N Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R Radhika.

Name	Part Number	Category Description	Device Type	Description	Quantity
1.186	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	2.2uF±10% 25V 0402	1
1.187	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	2.2uF±10% 25V 0402	1
1.188	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	2.2uF±10% 25V 0402	1
1.189	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	2.2uF±10% 25V 0402	1
1.190	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	2.2uF±10% 25V 0402	1
1.191	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	2.2uF±10% 25V 0402	1
1.192	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	2.2uF±10% 25V 0402	1
1.193	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	2.2uF±10% 25V 0402	1
1.194	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	2.2uF±10% 25V 0402	1
1.195	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	2.2uF±10% 25V 0402	1
1.196	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	2.2uF±10% 25V 0402	1
1.197	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	2.2uF±10% 25V 0402	1
1.198	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	2.2uF±10% 25V 0402	1
1.199	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	2.2uF±10% 25V 0402	1
1.200	CC0402JRX7R9BB121	Capacitor	Fixed, Ceramic	120pF±5% 50V 0402	1
1.201	CC0402JRX7R9BB121	Capacitor	Fixed, Ceramic	120pF±5% 50V 0402	1
1.202	CC0402JRX7R9BB121	Capacitor	Fixed, Ceramic	120pF±5% 50V 0402	1
1.203	CC0402JRX7R9BB121	Capacitor	Fixed, Ceramic	120pF±5% 50V 0402	1
1.204	CC0402JRX7R5BB101	Capacitor	Fixed, Ceramic	100pF±5% 50V 0402	1
1.205	CC0402JRX7R5BB101	Capacitor	Fixed, Ceramic	100pF±5% 50V 0402	1
1.206	CC0201JRX7R7BB77	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1

Analyst : N.Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam.
Approved By. R.Radhika.

Name	Part Number	Category Description	Device Type	Description	Quantity
L 207	CC0201JRX7R7BB678	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
L 208	CC0201JRX7R7BB679	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
L 209	CC0201JRX7R7BB680	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
L 210	CC0201JRX7R7BB681	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
L 211	CC0201JRX7R7BB682	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
L 212	CC0201JRX7R7BB683	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
L 213	CC0201JRX7R7BB684	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
L 214	CC0201JRX7R7BB685	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
L 215	CC0201JRX7R7BB686	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
L 216	CC0201JRX7R7BB687	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
L 217	CC0201JRX7R7BB688	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
L 218	CC0201JRX7R7BB689	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
L 219	CC0201JRX7R7BB690	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
L 220	CC0201JRX7R7BB691	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
L 221	CC0201JRX7R7BB692	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
L 222	CC0201JRX7R7BB693	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
L 223	CC0201JRX7R7BB694	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
L 224	CC0201JRX7R7BB695	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
L 225	CC0201JRX7R7BB696	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
L 226	CC0201JRX7R7BB697	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
L 227	CC0201JRX7R7BB698	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1

Analyst : N.Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jamoulingam
Approved By. R.Radhika.

Name	Part Number	Category Description	Device Type	Description	Quantity
1 228	CC0201JRX7R7BB99	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
1.229	CC0201JRX7R7BB100	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
1.230	CC0201JRX7R7BB101	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
1 231	CC0201JRX7R7BB102	Capacitor	Fixed, Ceramic	1000pF±5% 16V 0201	1
1.232	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0 1uF±10% 50V 0402	1
1.233	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0402	1
1.234	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	0 1uF±10% 50V 0402	1
1.235	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.235	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
	C0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
	0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.239	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.240	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0 1uF±10% 50V 0201	1
1.241	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1 242	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0 1uF±10% 50V 0201	1
1 243	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0 1uF±10% 50V 0201	1
1 244	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0 1uF±10% 50V 0201	1
1 245	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1 246	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0 1uF±10% 50V 0201	1
1 247	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1 248	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0 1uF±10% 50V 0201	1

Analyst N Venkata Naga Aravind & Anusam Anand
Compiled By: Shubham Kumar & V Jangulingam
Approved By: R Rashika

Index	Art Number	Category Description	Device Type	Description	Quantity
1.249	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.250	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.251	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.252	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.253	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.254	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.255	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.256	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.257	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.258	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.259	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.260	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.261	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.262	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.263	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.264	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.265	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.266	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.267	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.268	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.269	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1

Analyst : N.Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R.Rachna

Name	Part Number	Category Description	Device Type	Description	Quantity
1.270	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.271	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.272	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.273	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.274	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.275	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.276	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.277	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.278	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.279	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.280	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF±10% 50V 0201	1
1.281	CC0805KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0805	1
1.282	CC0805KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0805	1
1.283	CC0805KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0805	1
1.284	CC0805KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0805	1
1.285	CC0805KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0805	1
1.286	CC0805KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF±10% 25V 0805	1
1.287	CC0805KRX5R8BB106	Connector	Fixed, Ceramic	10uF±10% 25V 0805	1
1.288		Connector	Multi-Pin	0.5mm FFC/FPC 12 PIN SMD	1
1.289		Connector	Multi-Pin	0.5mm FFC/FPC 30 PIN SMD	1
1.290		Connector	Multi-Pin	0.5mm FFC/FPC 24 PIN SMD	1

Analyst: N Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam.
Approved By: R.Radhika

Name	Part Number	Category Description	Device Type	Description	Quantity
1.291	532530470	Connector	Multi-Pin	Conn, B2C,T8, Male, 1×4, 1.25mm, SMD	1
1.292	532530470	Connector	Multi-Pin	Conn, B2C,T8, Male, 1×4, 1.25mm, SMD	1
1.293	830108207309	Crystal	CRYSTAL OSCILLATOR, Quartz Controlled	24MHz,SMD 3.2*2.5mm,20pF,±20PPM	1
1.294	FC-135 32.7680KA-A5	Crysta	CRYSTAL OSCILLATOR, Quartz Controlled	32.768KHz,12.5pF,±20PPM,3.2*1.5,SMD	1
1.295	TPS562201DDCR	IC-Analog Device	DC-DC	2A synchronous step-down converter	-
1.296	TPS562701DDCR	C-Analog Device	DC-DC	2A synchronous step-down converter	1
1.297	TLV62569DBVR	IC-Analog Device	DC-DC	2A synchronous step-down converter	1
1.298	TLV62569DBVR	IC-Analog Device	DC-DC	2A synchronous step-down converter	1
1.299	TLV62569DBVR	IC-Analog Device	DC-DC	2A synchronous step-down converter	1
1.300	TLV702SO3VR	IC-Analog Device	DC-DC	300mA Low-Dropout Regulator	1
1.301	RT9078/N-08	IC Analog Device	DC-DC	300mA Low-Dropout Regulator	2
1.302	TLV62568DRLR	C-Analog Device	DC-DC	1A synchronous step-down converter	-
1.303	Cv28s33m	IC-Microprocessor	Comp Metal Oxide Semicon	IC,CV28S33M,vision processor VFBGA-288_0.55_11*11mm	1
1.304	ES8323S	IC-Digital Device	CMOS	Low Power Audio Codec	1
1.305	DP83825IRMQR	IC-Digital Device	CMOS	Single-port Physical Layer transceiver	1
1.306	SN74AVCH2T45DCU	IC-Digital Device	CMOS	Dual-bit voltage level translator	1
1.307	IMP811TEUS	IC-Digital Device	CMOS	Microprocessor Supervisory	1
1.308	MT4CAS12V16LY-062S IT.E	IC-Memory	DRAM	IC,VFM,8Gb,1200MHz, DDR4,BGA96	1
1.309	MX35LF1GE4AB	IC-Memory	ROM	IC,SERIAL NAND, 1Gb,WSON8	1
1.310	0415CDMCCDS-2R2MC	Inductor	Power Filter	Power Inductor, 2.2uH,1.85A,SMD	1
1.311	0415CDMCCDS-2R2MC	Inductor	Power Filter	Power Inductor, 2.2uH,1.85A,SMD	1

Analyst : N Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R Radhika

Name	Part Number	Category Description	Device Type	Description	Quantity
1.312	0415CDMCCDS-2R2MC	Inductor	Power Filter	Power inductor, 2.2uH,1.85A,SMD	-
1.313	SRR5228A-4R7Y	Inductor	Power Filter	Power inductor, 4.7uH,2A,SMD	-
1.314	SRR5228A-4R7Y	Inductor	Power Filter	Power inductor, 4.7uH,2A,SMD	-
1.315	0415CDMCCDS-2R2MC	Inductor	Power Filter	Power inductor,2.2uH,1A,SMD	1
1.316	HR681686	Transformer	Pulse High Level (2.5V)	10/100Base-T transformer	1
1.317	BEP06405C	Diode	Diode,Low Frequency	TVS Surge Supressor	1
1.318	SMBJ15CA	Diode	Diode,Low Frequency	TVS Surge Supressor	1
1.319	B3521(3C1)	Diode	Diode,Low Frequency	Thyristor	1
1.320	PESD0402A505	Diode	Diode,Low Frequency	TVS Surge Supressor	1
	LC03	Diode	Diode,Low Frequency	TVS Surge Supressor	1
	LC03	Diode	Diode,Low Frequency	TVS Surge Supressor	1
		Control Board			
2.1	RC0603DR-071K00L	Resistor	FILM (Carbon, Oxide, Metal)	1KΩ 0603	1
2.2	RC0603DR-071K00L	Resistor	FILM (Carbon, Oxide, Metal)	1KΩ 0603	1
2.3	RC0603DR-071K00L	Resistor	FILM (Carbon, Oxide, Metal)	1KΩ 0603	1
2.4	RC0603DR-071K00L	Resistor	FILM (Carbon, Oxide, Metal)	1KΩ 0603	1
2.5	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
2.6	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
2.7	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
2.8	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
2.9	RC0603DR 070R00L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1

Analyst : N.Venkata Naga Aravind & Anupam Anand
Compiled By Shanmugam Kumar & V Jambulingam
Approved By R Roshika

Name	Part Number	Category Description	Device Type	Description	Quantity
2.10	RC0603DR-070RC0L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
2.11	RC0603DR-070RC0L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
2.12	RC0603DR-070RC0L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
2.13	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
2.14	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
2.15	RC0603DR-070R0CL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
2.16	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
2.17	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
2.18	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
2.19	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
2.20	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
2.21	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
2.22	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
2.23	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
2.24	RC0402JR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
2.25	RC0402JR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
2.26	RC0402JR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
2.27	RC0402JR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
2.28	RC0402JR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
2.29	RC0402JR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
2.30	RC0402JR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1

Analysed By: K.Venkata Naga Aravind & Anupam Anand.
Compiled By: Shubham Kumar & V.Jambulingam.
Approved By: R.Radhika.

Name	Part Number	Category Description	Device Type	Description	Quantity
2.31	RC0402JR-070R0L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
2.32	RC0402DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	51Ω 0402	1
2.33	RC0402DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	51Ω 0402	1
2.34	RC0402DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	51Ω 0402	1
2.35	RC0402DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	51Ω 0402	1
2.36	RC0402DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	51Ω 0402	1
2.37	RC0402DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	51Ω 0402	1
2.38	RC0402DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	51Ω 0402	1
2.39	RC0402DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0402	1
2.40	RC0402DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0402	1
2.41	RC0402DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0402	1
2.42	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
2.43	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
2.44	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
2.45	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
2.46	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
2.47	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
2.48	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
2.49	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
2.50	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
2.51	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1

Analyst : N.Venkata Naga Aravind & Anubam Anand
Compiled By: Shubham Kumar & V Jambulingam.
Approved By: R Radhika

Name	Part Number	Category Description	Device Type	Description	Quantity
2.52	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
2.53	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
2.54	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
2.55	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
2.56	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
2.57	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
2.58	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
2.59	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
2.60	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
2.61	RC0603DR-0733R0L	Resistor	FILM (Carbon, Oxide, Metal)	33Ω 0603	1
2.62	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
2.63	RC0603DR-0736K0L	Resistor	FILM (Carbon, Oxide, Metal)	36KΩ 0603	1
2.64	RC0603DR-0747K0L	Resistor	FILM (Carbon, Oxide, Metal)	47KΩ 0603	1
2.65	RC0603DR-0747K0L	Resistor	FILM (Carbon, Oxide, Metal)	47KΩ 0603	1
2.66	RC0603DR-0747K0L	Resistor	FILM (Carbon, Oxide, Metal)	47KΩ 0603	1
2.67	RC0603DR-075K6L	Resistor	FILM (Carbon, Oxide, Metal)	5.6KΩ 0603	1
2.68	RC0603DR-075K6L	Resistor	FILM (Carbon, Oxide, Metal)	5.6KΩ 0603	1
2.69	RC0603DR-075K6L	Resistor	FILM (Carbon, Oxide, Metal)	5.6KΩ 0603	1
2.70	RC0603DR-075K6L	Resistor	FILM (Carbon, Oxide, Metal)	5.6KΩ 0603	1
2.71	RC0603DR-075K6L	Resistor	FILM (Carbon, Oxide, Metal)	5.6KΩ 0603	1
2.72	RC0603DR-075K6L	Resistor	FILM (Carbon, Oxide, Metal)	5.6KΩ 0603	1

Analyst: N.Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V.Jambulingam
Approved By: R.Radhika

Name	Part Number	Category Description	Device Type	Description	Quantity
2.73	RC0603DR-075K6OL	Resistor	FILM (Carbon, Oxide, Metal)	5.6KΩ 0603	1
2.74	RC0603DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	100KΩ 0603	1
2.75	RC0603DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	100KΩ 0603	1
2.76	RC0603DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	100KΩ 0603	1
2.77	RC0603DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	100KΩ 0603	1
2.78	RC0603DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	100KΩ 0603	1
2.79	RC0603DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	100KΩ 0603	1
2.80	RC0603DR-0718K0L	Resistor	FILM (Carbon, Oxide, Metal)	18KΩ 0603	1
2.81	RC0603DR-072CK0L	Resistor	FILM (Carbon, Oxide, Metal)	2CKΩ 0603	1
2.82	RC0603DR-072K20L	Resistor	FILM (Carbon, Oxide, Metal)	2.2KΩ 0603	1
2.83	RC0603DR-072K2DL	Resistor	FILM (Carbon, Oxide, Metal)	2.2KΩ 0603	1
2.84	RC0603DR-0730K0L	Resistor	FILM (Carbon, Oxide, Metal)	30KΩ 0603	1
2.85	RC0603DR-0730K0L	Resistor	FILM (Carbon, Oxide, Metal)	30KΩ 0603	1
2.86	RC0603DR-0730K0L	Resistor	FILM (Carbon, Oxide, Metal)	30KΩ 0603	1
2.87	RC0603DR-0730K0L	Resistor	FILM (Carbon, Oxide, Metal)	30KΩ 0603	1
2.88	RC0603DR-0730K0L	Resistor	FILM (Carbon, Oxide, Metal)	30KΩ 0603	1
2.89	RC0603DR-0730K0L	Resistor	FILM (Carbon, Oxide, Metal)	30KΩ 0603	1
2.90	RC0603DR-0730K0L	Resistor	FILM (Carbon, Oxide, Metal)	30KΩ 0603	1
2.91	RC0603DR-0733K0L	Resistor	FILM (Carbon, Oxide, Metal)	33KΩ 0603	1
2.92	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0603	1
2.93	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0603	1

Analyst : N Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Janibulingam.
Approved By: A.Radhika

A_no	Part Number	Category Description	Device Type	Description	Quantity
2.94	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0603	1
2.95	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0603	1
2.96	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0603	1
2.97	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0603	1
2.98	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0603	1
2.99	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0603	1
2.100	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0603	1
2.101	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0603	1
2.102	RC0603DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	51kΩ 0603	1
2.103	RC0603DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	51kΩ 0603	1
2.104	RC0603DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	51KΩ 0603	1
2.105	RC0603DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	51KΩ 0603	1
2.106	RC0603DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	51KΩ 0603	1
2.107	RC0603DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	51KΩ 0603	1
2.108	RC0603DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	51KΩ 0603	1
2.109	RC0603DR-076K2L	Resistor	FILM (Carbon, Oxide, Metal)	6.2KΩ 0603	1
2.110	RC0603DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	51KΩ 0603	1
2.111	RC0603DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	51KΩ 0603	1
2.112	RC0603DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	51KΩ 0603	1
2.113	RC1206DR-071R00L	Resistor	FILM (Carbon, Oxide, Metal)	1Ω 1206	1
2.114	RC1206DR-071R00L	Resistor	FILM (Carbon, Oxide, Metal)	1Ω 1206	1

Analyst : N.Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam.
Approved By: R Rashika

Name	Part Number	Category Description	Device Type	Description	Quantity
2.115	RC1206DR-07_R0CL	Resistor	FILM (Carbon, Oxide, Metal)	1Ω 1206	1
2.116	RC1206DR-07_R0CL	Resistor	FILM (Carbon, Oxide, Metal)	1Ω 1206	1
2.117	RC1206DR-070R25L	Resistor	FILM (Carbon, Oxide, Metal)	0.25Ω 1206	1
2.118	RC1206DR-070R25L	Resistor	FILM (Carbon, Oxide, Metal)	0.25Ω 1206	1
2.119	RC1206DR-070R25L	Resistor	FILM (Carbon, Oxide, Metal)	0.25Ω 1206	1
2.120	RC1206DR-070R25L	Resistor	FILM (Carbon, Oxide, Metal)	0.25Ω 1206	1
2.121	CC0603KRX7R8BB106	Capacitor	Fixed, Ceramic	10uF 0603	1
2.122	CC0603KRX7R8BB106	Capacitor	Fixed, Ceramic	10uF 0603	1
2.123	CC1206KRX7R8BB106	Capacitor	Fixed, Ceramic	10uF 1206	1
2.124	CC1206KRX7R8BB106	Capacitor	Fixed, Ceramic	10uF 1206	1
2.125	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.126	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.127	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.128	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.129	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.130	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.131	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.132	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.133	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.134	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.135	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1

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Approved By: R.Radhika.

Name	Part Number	Category Description	Device Type	Description	Quantity
2.136	CC3206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.137	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.138	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.139	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.140	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.141	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.142	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.143	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.144	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.145	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.146	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.147	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.148	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.149	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.150	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.151	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.152	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.153	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.154	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.155	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.156	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1

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Approved By. R Radhika

Name	Part Number	Category Description	Device Type	Description	Quantity
2.157	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.158	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
2.159	CC0603JRX7R9BB101	Capacitor	Fixed, Ceramic	100pF 0603	1
2.160	CC0603JRX7R9BB101	Capacitor	Fixed, Ceramic	100pF 0603	1
2.161	CC0603JRX7R9BB101	Capacitor	Fixed, Ceramic	100pF 0603	1
2.162	CC0603JRX7R9BB101	Capacitor	Fixed, Ceramic	100pF 0603	1
2.163	CC0603JRX7R9BB030	Capacitor	Fixed, Ceramic	30pF 0603	1
2.164	CC0603JRX7R9BB030	Capacitor	Fixed, Ceramic	30pF 0603	1
2.165	CC0603JRX7R9BB102	Capacitor	Fixed, Ceramic	1000pF 0603	1
2.166	CC0603JRX7R9BB102	Capacitor	Fixed, Ceramic	1000pF 0603	1
2.167	CC0603JRX7R9BB102	Capacitor	Fixed, Ceramic	1000pF 0603	1
2.168	CC0603JRX7R9BB102	Capacitor	Fixed, Ceramic	1000pF 0603	1
2.169	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.170	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.171	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.172	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.173	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.174	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.175	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.176	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.177	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1

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Name	Part Number	Category Description	Device Type	Description	Quantity
2.178	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.179	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.180	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.181	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.182	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.183	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.184	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.185	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.186	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.187	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.188	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.189	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.190	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.191	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.192	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.193	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.194	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.195	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.196	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.197	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.198	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1

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Name	Part Number	Category Description	Device Type	Description	Quantity
2.199	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.200	CC0603JRX7R9BBJ04	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.201	CC0603JRX7R9B3104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.202	CC0603JRX7R93B104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.203	CC0603JRX7R93B104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.204	CC0603JRX7R93B104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.205	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.206	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.207	CC0603JRX7R9B3104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.208	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.209	CC0603JRX7R93B104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.210	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.211	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.212	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.213	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.214	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.215	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.216	CC0603JRX7R93B104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.217	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.218	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.219	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1

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Name	Part Number	Category Description	Device Type	Description	Quantity
2.220	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.221	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.222	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
2.223	CC0603JRX7R6BB224	Capacitor	Fixed, Ceramic	0.22uF 0603	1
2.224	CC0603JRX7R6BB224	Capacitor	Fixed, Ceramic	0.22uF 0603	1
2.225	CC1206JRX7R0BB105	Capacitor	Fixed, Ceramic	1uF 1206	1
2.226	CC1206JRX7R0BB105	Capacitor	Fixed, Ceramic	1uF 1206	1
2.227	CC1206JRX7R0BB105	Capacitor	Fixed, Ceramic	1uF 1206	1
2.228	CC1206JRX7R0BB105	Capacitor	Fixed, Ceramic	1uF 1206	1
2.229	CC1206JRX7R6BB103	Capacitor	Fixed, Ceramic	0.01uF 1206	1
2.230	CC1206JRX7R6BB103	Capacitor	Fixed, Ceramic	0.01uF 1206	1
2.231	532530470	Connector	Multi-Pin	Conn, B2C,TB, Male, 1x4, 2.0mm, DIP	1
2.232	532531670	Connector	Multi-Pin	Conn, B2C,TB, Male, 1x6, 1.25mm, DIP	1
2.233	532531670	Connector	Multi-Pin	Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1
2.234	532531670	Connector	Multi-Pin	Conn, B2C,TB, Male, 1x5, 1.25mm, SMD	1
2.235	532531670	Connector	Multi-Pin	Conn, B2C,TB, Male, 1x4, 1.25mm, SMD	1
2.236	532531670	Connector	Multi-Pin	Conn, B2C,TB, Male, 1x15, 1.25mm, SMD	1
2.237	532530270	Connector	Multi-Pin	Conn, B2C,TB, Male, 1x2, 2.0mm, DIP	1
2.238	532530270	Connector	Multi-Pin	Conn, B2C,TB, Male, 1x2, 2.0mm, DIP	1
2.239	532530770	Connector	Multi-Pin	Conn, B2C,TB, Male, 1x7, 2.0mm, DIP	1
2.240	532530870	Connector	Multi-Pin	Conn, B2C,TB, Male, 1x8, 2.0mm, DIP	1

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Name	Part Number	Category Description	Device Type	Description	Quantity
2.241	5325308/5	Connector	Multi-Pin	Conn, B2C,TB, Male, 1×8, 2.0mm, DIP	1
2.242	5325308/5	Connector	Multi-Pin	Conn, B2C,TB, Male, 1×8, 2.0mm, DIP	1
2.243		Connector	Multi-Pin	0.5mm FFC/FPC 30 PIN	1
2.244	B3545	Diode	Diode,Low Frequency	TVS Surge Supressor	6
2.245	1N5819-W-7-F	Diode	Diode,Low Frequency	TVS Surge Supressor	3
2.246	SS14	Diode	Diode,Low Frequency	Silicon ,General Purpose	13
2.247	2SC2412	Transistor	GERMANIUM,NPN, > 0.6 and < 6.0 w	General Purpose Small Signal Amplifier	1
2.248	AO3401	Transistor	GERMANIUM,NPN, > 0.6 and < 6.0 w	General Purpose Small Signal Amplifier	1
2.249	2SC2412	Transistor	GERMANIUM,NPN, > 0.6 and < 6.0 w	General Purpose Small Signal Amplifier	1
2.250	2SC2412	Transistor	GERMANIUM,NPN, > 0.6 and < 6.0 w	General Purpose Small Signal Amplifier	1
2.251	MMBTA55LT1	Transistor	GERMANIUM,NPN, > 0.6 and < 6.0 w	Driver Transistors	1
2.252	FOS 8C-12-3CQ-CES-TR	Crystal	CRYSTAL OSCILLATOR, Quartz Controlled	Crystal Oscillator 8.00 MHz	1
2.253	PT4115E	IC-Analog Device	IC	LED Driver PT4115/2227C	2
2.254	PT4115E	IC-Analog Device	IC	LED Driver PT4115/2227C	2
2.255	MP2359	IC-Analog Device	IC	Step Down Converter	1
2.256	MS3989	IC-Analog Device	IC	Motor Driver MS3989	1
2.257	MAX4292EUA-T	IC-Analog Device	IC	RS 485	1
2.258	BA10393F	C-Analog Device	IC	SOP 8 IC	1
2.259	AT88SC0104C	C-Analog Device	IC	SOP 8 IC	1
2.260	BA10358	IC-Analog Device	IC	Integrated circuit	1

Analyst : N Venkata Naga Aravind & Anupam Anand;
Compiled By: Shutham Kumar & V Jambulingam;
Approved By: R.Radhika.

Name	Part Number	Category Description	Device Type	Description	Quantity
2.261	MP2359	IC-Analog Device	IC	Step-Down Converter	1
2.262	74HC02D	IC Digital Device	CMOS	IC GATE NOR 4CH 2-INP 14SO	1
2.263	ATMLH231	IC-Digital Device	CMOS	IC ATMLH231	1
2.264	ULN2003A	IC-Digital Device	CMOS	IC PWR RELAY 7NPN 1.1 16DIP	1
2.265	STM32F103RCT6	IC-Microprocessor	CMOS	IC	1
2.266	MPL-AY3C20-4R7	Inductor	Power Filter	Power inductor, 4.7uH,20%,2A,SMD	1
2.267	B82477P4473M000	Inductor	Power Filter	Power inductor, 47uH,20%,1.8A,SMD	1
2.268	B82477P4473M000	Inductor	Power Filter	Power inductor, 47uH,20%,1.8A,SMD	1
2.269	B82477P4473M000	Inductor	Power Filter	Power inductor, 47uH,20%,1.8A,SMD	1
2.270	B82477P4473M000	Inductor	Power Filter	Power inductor, 47uH,20% 1.8A,SMD	1
3		Power Board			
3.1	RC0603DR-070RL0L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
3.2	RC0603DR-070R0L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
3.3	RC0603DR-070R0L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
3.4	RC0603DR-070R0L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
3.5	RC0603DR-070R0L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
3.6	RC0603DR-070R0L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
3.7	RC0603DR-070R0L	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0603	1
3.8	RC0603DR-071K0L	Resistor	FILM (Carbon, Oxide, Metal)	1KΩ 0603	1
3.9	RC0603DR-071K0L	Resistor	FILM (Carbon, Oxide, Metal)	1KΩ 0603	1
3.10	RC0603DR-071K0L	Resistor	FILM (Carbon, Oxide, Metal)	1KΩ 0603	1

Analyst: N Venkata Naga Aravind & Anusam Anand
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Approved By: S Radhika.

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Name	Part Number	Category Description	Device Type	Description	Quantity
3.11	RC0603DR-071KOL	Resistor	FILM (Carbon, Oxide, Metal)	1KΩ 0603	1
3.12	RC0603DR-072K2OL	Resistor	FILM (Carbon, Oxide, Metal)	2.2KΩ 0603	1
3.13	RC0603DR-072K2OL	Resistor	FILM (Carbon, Oxide, Metal)	2.2KΩ 0603	1
3.14	RC0603DR-072K00L	Resistor	FILM (Carbon, Oxide, Metal)	2KΩ 0603	1
3.15	RC0603DR-073K00L	Resistor	FILM (Carbon, Oxide, Metal)	3KΩ 0603	1
3.16	RC0603DR-074K7OL	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0603	1
3.17	RC0603DR-073K3OL	Resistor	FILM (Carbon, Oxide, Metal)	3.3KΩ 0603	1
3.18	RC0603DR-0710KOL	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
3.19	RC0603DR-074K7OL	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0603	1
3.20	RC0603DR-074K7OL	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0603	1
3.21	RC0603DR-074K7OL	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0603	1
3.22	RC0603DR-0710KOL	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
3.23	RC0603DR-0712KOL	Resistor	FILM (Carbon, Oxide, Metal)	12KΩ 0603	1
3.24	RC0603DR-0710KOL	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
3.25	RC0603DR-0710KOL	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0603	1
3.26	RC1206DR-0710KOL	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 1206	1
3.27	RC0603DR-0727KOL	Resistor	FILM (Carbon, Oxide, Metal)	27KΩ 0603	1
3.28	RC0603DR-0763K4L	Resistor	FILM (Carbon, Oxide, Metal)	63.4KΩ 0603	1
3.29	RC0603DR-0775R0L	Resistor	FILM (Carbon, Oxide, Metal)	75Ω 0603	1
3.30	RC0603DR-0775R0L	Resistor	FILM (Carbon, Oxide, Metal)	75Ω 0603	1
3.31	RC0603DR-0775R0L	Resistor	FILM (Carbon, Oxide, Metal)	75Ω 0603	1

Analyst : N.Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam.
Approved By: R Radhika.

Name	Part Number	Category description	Device Type	Description	Quantity
3.32	RC1206DR-0775R0L	Resistor	FILM (Carbon, Oxide, Metal)	75Ω 1206	1
3.33	RC1206DR-0775R0L	Resistor	FILM (Carbon, Oxide, Metal)	75Ω 1206	1
3.34	RC1206DR-0775R0L	Resistor	FILM (Carbon, Oxide, Metal)	75Ω 1206	1
3.35	RC1206DR-0775R0L	Resistor	FILM (Carbon, Oxide, Metal)	75Ω 1206	1
3.36	RC1206DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	100KΩ 1206	1
3.37	RC1206DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	100KΩ 1206	1
3.38	RC0603DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	100KΩ 0603	1
3.39	RC0603DR-07120KL	Resistor	FILM (Carbon, Oxide, Metal)	120KΩ 0603	1
3.40	RC0603DR-07150RL	Resistor	FILM (Carbon, Oxide, Metal)	150Ω 0603	1
3.41	RC1206DR-071K20L	Resistor	FILM (Carbon, Oxide, Metal)	1.2KΩ 1206	1
3.42	RC0603DR-0715K2L	Resistor	FILM (Carbon, Oxide, Metal)	15.2KΩ 0603	1
3.43	RC0603DR-0795K3L	Resistor	FILM (Carbon, Oxide, Metal)	9.53KΩ 0603	1
3.44	RC0603DR-0749K9L	Resistor	FILM (Carbon, Oxide, Metal)	49.9KΩ 0603	1
3.45	RC0603DR-07470RL	Resistor	FILM (Carbon, Oxide, Metal)	470Ω 0603	1
3.46	RC0603DR-07470RL	Resistor	FILM (Carbon, Oxide, Metal)	470Ω 0603	1
3.47	RC0603DR-07470RL	Resistor	FILM (Carbon, Oxide, Metal)	470Ω 0603	1
3.48	REF1220681M05C	Capacitor	Fixed, Aluminium, Electrolytic	680uF DIP	1
3.49	REF1225222MG1S	Capacitor	Fixed, Aluminium, Electrolytic	2200uF DIP	1
3.50	REF061222DM100	Capacitor	Fixed, Aluminium, Electrolytic	22uF DIP	1
3.51	REF1022012MG1S	Capacitor	Fixed, Aluminium, Electrolytic	1000uF DIP	1
3.52	REF1022012M016	Capacitor	Fixed, Aluminium, Electrolytic	1000uF DIP	1

Analyst : N Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Senbaulingam
Approved By: R.Radhika

Name	Part Number	Category Description	Device Type	Description	Quantity
3.53	CC0603JRX7R6BB106	Capacitor	Fixed, Ceramic	10uF 0603	1
3.54	CC0603JRX7R6BB106	Capacitor	Fixed, Ceramic	10uF 0603	1
3.55	CC06C3JRX7R9BB150	Capacitor	Fixed, Ceramic	15pF 0603	1
3.56	CC12C6JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
3.57	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
3.58	CC1206JRX7R8BB22E	Capacitor	Fixed, Ceramic	22uF 1206	1
3.59	CC1206JRX74BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
3.60	CC1206JRX76BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
3.61	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
3.62	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
3.63	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
3.64	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
3.65	CC1206JRX76BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
3.66	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
3.67	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
3.68	CC1206JRX7R5BB225	Capacitor	Fixed, Ceramic	22uF 1206	1
3.69	CC1206JRX7R8BB225	Capacitor	Fixed, Ceramic	22uF 1206	1
3.70	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	22uF 1206	1
3.71	CC0603JRX7R0BB102	Capacitor	Fixed, Ceramic	1000pF 0603	1
3.72	CC1206JRX7R7BB103	Capacitor	Fixed, Ceramic	0.01uF 1206	1
3.73	CC1206JRX7R7BB103	Capacitor	Fixed, Ceramic	0.01uF 1206	1

Analyst : N.Venkata Naga Aravind & Anupam Anand.
Compiled By: Shubham Kumar & V Jambulingam.
Approved By: R.Radhika.

Name	Part Number	Category Description	Device Type	Description	Quantity
3.74	CC1206JRX7R7BB103	Capacitor	Fixed, Ceramic	0.01uF 1206	1
3.75	CC1206JRX7R7BB103	Capacitor	Fixed, Ceramic	0.01uF 1206	1
3.76	CC1206JRX7R7BB103	Capacitor	Fixed, Ceramic	0.01uF 1206	1
3.77	CC1206JRX7R7BB103	Capacitor	Fixed, Ceramic	0.01uF 1206	1
3.78	CC1206JRX7R7BB103	Capacitor	Fixed, Ceramic	0.01uF 1206	1
3.79	CC1206JRX7R7BB103	Capacitor	Fixed, Ceramic	0.01uF 1206	1
3.80	CC0603JRX7R9BB103	Capacitor	Fixed, Ceramic	0.01uF 0603	1
3.81	CC0603JRX7R5BB103	Capacitor	Fixed, Ceramic	0.01uF 0603	1
3.82	CC0603JRX7R9BB103	Capacitor	Fixed, Ceramic	0.01uF 0603	1
3.83	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
3.84	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
3.85	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
3.86	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
3.87	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
3.88	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
3.89	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
3.90	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
3.91	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
3.92	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
3.93	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
3.94	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1

Analyst: N Venkata Naga Anvinn & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam:
Approved By: R Radhika:

Name	Part Number	Category Description	Device Type	Description	Quantity
3.95	CC0603JRX7R9BB105	Capacitor	Fixed, Ceramic	1uF 0603	1
3.96	CC0603JRX7R9BB105	Capacitor	Fixed, Ceramic	1uF 0603	1
3.97	CC0603JRX7R9BB105	Capacitor	Fixed, Ceramic	1uF 0603	1
3.98	CC1206JRX7R9BB105	Capacitor	Fixed, Ceramic	1uF 1206	1
3.99	CC0603JRX7R9BB221	Capacitor	Fixed, Ceramic	220pF 0603	1
3.100	CC0603JRX7R9BB224	Capacitor	Fixed, Ceramic	0.22uF 0603	1
3.101	CC0603JRX7R9BB225	Capacitor	Fixed, Ceramic	2.2uF 0603	1
3.102	CC1206JRX7R9BB225	Capacitor	Fixed, Ceramic	2.2uF 1206	1
3.103	CC1206JRX7R9BB225	Capacitor	Fixed, Ceramic	2.2uF 1206	1
3.104	CC1206JRX7R9BB225	Capacitor	Fixed, Ceramic	2.2uF 1206	1
3.105	CC1206JRX7R9BB225	Capacitor	Fixed, Ceramic	2.2uF 1206	1
3.106	CC1206JRX7R9BB225	Capacitor	Fixed, Ceramic	2.2uF 1206	1
3.107	CC0603JRX7R7BB475	Capacitor	Fixed, Ceramic	4.7uF 0603	1
3.108	CC0603JRX7R9BB821	Capacitor	Fixed, Ceramic	820pF 0603	1
3.109	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
3.110	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
3.111	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
3.112	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	0.1uF 0603	1
3.113	532530670	Connector	Multi Pin	Conn, B2C,TB, Male, 1x6, 2.0mm, DIP	2
3.114	532530470	Connector	Multi-Pin	Conn, B2C,TB, Male, 1x4, 2.0mm, DIP	1
3.115	532530870	Connector	Multi-Pin	Conn, B2C,TB, Male, 1x8, 2.0mm, DIP	1

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Compiled By: Shubham Kumar & V Jambulingam
Approved By: R.Radhika

Design	Part Number	Component Description	Product Type	Description	Quantity
3.116	[illegible]	Connector	Multi Pin	Conn, B2C Tab Vert, 1x2, 3.96mm	1
3.117	5429902X0	Connector	Multi Pin	Conn, B2C Tab [illegible] 1x2, 2.0mm, [illegible]	1
3.118	5x2 80x70	Connector	Multi Pin	Conn, B2C,10, Vert, 1x8, 2.0mm Pitch	1
3.119	5x2x2670	Connector	Multi Pin	Conn, B2C,10, Vert, 1x16, 1.25mm Pitch	1
3.120	SB540	Diode	Diode,Low Frequency	TVS Surge Supressor	4
3.121	SMBJ58(C)A	Diode	Diode,Low Frequency	TVS Surge Supressor	3
3.122	SS310 HF	Diode	Diode,Low Frequency	Silicon ,General Purpose	1
3.123	1N5819HW	Diode	Diode,Low Frequency	Voltage Regulator	1
3.124	BZT52C5V6	Diode	Diode,Low Frequency	Voltage Regulator	1
[illegible]	BZT52C5V6	Diode	Diode,Low Frequency	Voltage Regulator	1
3.127	V10P10	Diode	Diode,Low Frequency	Voltage Regulator	1
[illegible]	V10P10	Diode	Diode,Low Frequency	Voltage Regulator	1
3.128	5.0SMDJ58CA	Diode	Diode,Low Frequency	TVS Surge Supressor	3
3.129	TL431	Diode	Diode,Low Frequency	Voltage Regulator	1
3.130	KEL210	Diode	Diode,Low Frequency	Silicon ,General Purpose	1
3.131	MBR10	Diode	Diode,Low Frequency	Silicon ,General Purpose	1
3.132	EL3H7	Diode	Diode,Low Frequency	Voltage Regulator	4
3.133	1N4007W	Diode	Diode,Low Frequency	Silicon ,General Purpose	5
3.134	TSD2011D05V200	Diode	Diode,Low Frequency	TVS Surge Supressor	4
3.135	KTA1137A	IC-Analog Device	Dc-DC	KTA1137A PoE PD with Integrated DC-DC Controller	1
3.136	MPS2359	IC-Analog Device	Dc-DC	MPS -2359	1

Analyst: N.Venkata Naga Aravind & Anupma Anand
Compiled By: Shubham Kumar & V.Jambulingam
Approved By: R.Radhika.

Name	Part Number	Category Description	Device Type	Description	Quantity
3.137	AMS1117	IC-Analog Device	Dc-DC	AMS1117 VOLTAGE RAGULOR	1
3.138	IC MS1681 J0GS	IC-Analog Device	Dc-DC	IC MS1681 J0GS	1
3.139	SG75	Miscellaneous Devices	SURGE ARRESTOR SMD / GAS DISCHARGE TUBE	GDT	1
3.140	JK30 600	Miscellaneous Devices	FUSE, < 80A	JK30 600 Resettable Fuse PTC 30V Series	1
3.141	10D820K	Miscellaneous Devices	CIRCUIT BREAKER, Protection Only Application (per pole)	10D 820K MOV	4
3.142	SG75	Miscellaneous Devices	SURGE ARRESTOR SMD / GAS DISCHARGE TUBE	GDT 75V 2KA 2 POLE SURFACE MOUNT	1
3.143	SH145	Miscellaneous Devices	SURGE ARRESTOR SMD / GAS DISCHARGE TUBE	GDT	9
3.144		Miscellaneous Devices	Power Supply	Power Supply 24V ,3A	1
3.145		Miscellaneous Devices	Fan	Heater fan Sink 40 mm Dia	1
3.146		Miscellaneous Devices	Motor	Step Motor(4PIN Motor)	2
3.147	MPL-AY3020-4R7	Inductor	Power Filter	Power inductor, 4.7uH 20%,2A,SMD	1
3.148	MPL-AY3020-4R7	Inductor	Power Filter	Power inductor, 4.7uH,20K,2A,SMD	1
3.149	SC-15 10J	Inductor	Power Filter	Common mode Choke,1mH,0 P	1
3.150	8113 RC	Inductor	Power Filter	Common mode Choke,5mH,0 P	1
3.151	TRC1102NL	Transformer	Pulse High Level(2.5V)	RF -TF TRC1102NL	1
3.152	EFD2087SR	Transformer	Pulse High Level(2.5V)	Power Inductor, 4.7uH 20%,2A,SMD	1
3.153	FDP075N15A	Transistor	GERMAN UM,NFN, > 0.5 and < 0.9 w	MOSFET	2
3.154		Switch	Push Switch	Push Switch With Rated Current normal amps and Contact current 1 milliamps	1
3.155	HRB1 5 DC12V	Relay	Latching	DP 12 VOLT RELAY (HRB1 5 DC12V)	1

Analyst: N Venkata Naga Aravind & Anubam Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R Radhakr

Name	Part Number	Category Description	Device Type	Description	Quantity
4		Sensor Board			
4.1	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
4.2	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
4.3	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0402	1
4.4	RC0805JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0805	1
4.5	RC0805JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	0Ω 0805	1
4.6	RC0402DR-07330RL	Resistor	FILM (Carbon, Oxide, Metal)	330Ω 0402	1
4.7	RC0402DR-07330RL	Resistor	FILM (Carbon, Oxide, Metal)	330Ω 0402	1
4.8	RC0402DR-071OKL	Resistor	FILM (Carbon, Oxide, Metal)	10KΩ 0402	1
4.9	RC0402DR-0751KL	Resistor	FILM (Carbon, Oxide, Metal)	51KΩ 0402	1
4.10	RC0402DR-0751K.	Resistor	FILM (Carbon, Oxide, Metal)	51KΩ 0402	1
4.11	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7KΩ 0402	1
4.12	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7kΩ 0402	1
4.13	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7kΩ 0402	1
4.14	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7kΩ 0402	1
4.15	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7kΩ 0402	1
4.16	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7kΩ 0402	1
4.17	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	4.7kΩ 0402	1
4.18	CC0603KRX5R6BB106	Capacitor	Fixed, Ceramic	10uF 10V 0603	1
4.19	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	10uF 25V 0603	1
4.20	CC0603KRX5R6BB106	Capacitor	Fixed, Ceramic	10uF 25V 0603	1

Analyst N.Venkata Naga Aravind & Anupam Anand
Compiled By. Shubham Kumar & V Jamburngam
Approved By R Radhika.

Name	Part Number	Category Description	Device Type	Description	Quantity
4.21	CC0603KRX5R6BB106	Capacitor	Fixed, Ceramic	10uF 10V 0603	1
4.22	CC0603KRX5R6BB106	Capacitor	Fixed, Ceramic	10uF 25V 0603	1
4.23	CC0603KRX5R6BB106	Capacitor	Fixed, Ceramic	10uF 25V 0603	1
4.24	CC0603KRX5R6BB105	Capacitor	Fixed, Ceramic	10uF 25V 0603	1
4.25	CC0603KRX5R6BB105	Capacitor	Fixed, Ceramic	10uF 25V 0603	1
4.26	CC0603KRX5R6BB106	Capacitor	Fixed, Ceramic	10uF 25V 0603	1
4.27	CC0603KRX5R6BB106	Capacitor	Fixed, Ceramic	10uF 25V 0603	1
4.28	CC0603KRX5R6BB106	Capacitor	Fixed, Ceramic	10uF 25V 0603	1
4.29	CC0603KRX5R6BB106	Capacitor	Fixed, Ceramic	10uF 25V 0603	1
4.30	CC0603KRX5R6BB106	Capacitor	Fixed, Ceramic	10uF 25V 0603	1
4.31	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	0.1uF 25V 0402	1
4.32	CC0402JRX7R8BB105	Capacitor	Fixed, Ceramic	0.1uF 25V 0402	1
4.33	CC0402JRX7R8BB106	Capacitor	Fixed, Ceramic	0.1uF 25V 0402	1
4.34	CC0402JRX7R8BB107	Capacitor	Fixed, Ceramic	0.1uF 25V 0402	1
4.35	CC0402JRX7R6BB104	Capacitor	Fixed, Ceramic	0.1uF 10V 0402	1
4.36	CC0402JRX7R6BB104	Capacitor	Fixed, Ceramic	0.1uF 10V 0402	1
4.37	CC0402JRX7R6BB104	Capacitor	Fixed, Ceramic	0.1uF 10V 0402	1
4.38	CC0402JRX7R6BB104	Capacitor	Fixed, Ceramic	0.1uF 10V 0402	1
4.39	CC0402JRX7R6BB104	Capacitor	Fixed, Ceramic	0.1uF 10V 0402	1
4.40	CC0402JRX7R6BB104	Capacitor	Fixed, Ceramic	0.1uF 10V 0402	1
4.41	CC0402JRX7R6BB104	Capacitor	Fixed, Ceramic	0.1uF 10V 0402	1

Analyst : N.Venkata Naga Aravind & Anupam Anand.
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Approved By. R.Radhika.

Name	Part Number	Category Description	Device Type	Description	Quantity
4.42	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	0.1uF 25V 0402	1
4.43	CC0402JRX7R6BB104	Capacitor	Fixed, Ceramic	0.1uF 10V 0402	1
4.44	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	0.1uF 25V 0402	1
4.45	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	0.1uF 25V 0402	1
4.46	CC0402JRX7R6BB104	Capacitor	Fixed, Ceramic	0.1uF 10V 0402	1
4.47	CC0402JRX7R6BB104	Capacitor	Fixed, Ceramic	0.1uF 10V 0402	1
4.48	CC0402JRX7R6BB104	Capacitor	Fixed, Ceramic	0.1uF 10V 0402	1
4.49	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	0.1uF 25V 0402	1
4.50	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	0.1uF 25V 0402	1
4.51	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	0.1uF 25V 0402	1
4.52	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	0.1uF 25V 0402	1
4.53	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	0.1uF 25V 0402	1
4.54	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	0.1uF 25V 0402	1
4.55	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	0.1uF 25V 0402	1
4.56	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	0.1uF 25V 0402	1
4.57	CC0402JRX7R9BB103	Capacitor	Fixed, Ceramic	0.01uF 50V 0402	1
4.58	CC0402JRX7R9BB103	Capacitor	Fixed, Ceramic	0.01uF 50V 0402	1
4.59	CC0402JRX7R9BB102	Capacitor	Fixed, Ceramic	1000pF 50V 0402	1
4.60	CC0402JRX7R9BB102	Capacitor	Fixed, Ceramic	1000pF 50V 0402	1
4.61	CC0402JRX7R9BB102	Capacitor	Fixed, Ceramic	1000pF 50V 0402	1
4.62	CC0402JRX7R9BB102	Capacitor	Fixed, Ceramic	1000pF 50V 0402	1

Analyst : N.Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R.Radhika

Name	Part Number	Category Description	Device Type	Description	Quantity
4.62	CC0402KRX5R7BB475	Capacitor	Fixed, Ceramic	4.7uF 16V 0402	1
4.64	CC0402JRX7R9BB121	Capacitor	Fixed, Ceramic	120pF 50V 0402	1
4.65	CC0402JRX7R9BB121	Capacitor	Fixed, Ceramic	120pF 50V 0402	1
4.66	CC1206JRX7R9BB102	Capacitor	Fixed, Ceramic	1000pF 2kV 1206	1
4.67	CC1206JRX7R9BB102	Capacitor	Fixed, Ceramic	1000pF 2kV 1206	1
4.68	CC1206JRX7R9BB102	Capacitor	Fixed, Ceramic	1000pF 2kV 1206	1
4.69		Connector	Multi-Pin	0.5mm 36 Pin SMD Mount FPC	1
4.70		Connector	Multi Pin	0.5mm 24 Pin SMD Mount FPC	1
4.71	9HG10532073D9	Crysta	QUARTZ CRYSTAL	24MHz,SMD 3.2*2.5mm,20pF,±20PPM	1
4.73	TLV70218DBVR	IC-Analog Device	DC-DC	300-mA, Low-Dropout Regulator	1
	TLV70212DBVR	IC-Analog Device	DC-DC	300-mA, Low-Dropout Regulator	1
	TLV70225DDVR	IC-Analog Device	DC-DC	300-mA, Low-Dropout Regulator	1
4.75	MS41929	IC-Digital Device	CMOS	Two Channel Low voltage Motor Driver	1
4.76	IVX335	IC-Digital Device	CMOS	CMOS Solid-state Image Sensor	1

EFKON INDIA PVT. LTD.

Analyst : N Venkata Naga Aravind & Arupam Anand:
Carried By Shubham Kumar & V Jambulingam:
Approved By R Radhika:

Report No. CFR/2024/1827
(40 Pages)

Annexure- II

Telcordia SR-332

FAILURE RATE REPORT

(Temperature 40℃)

EFKON INDIA PVT. LTD.

TELCORDIA SR-332 FAILURE RATE REPORT

Name: SS-EN212-PII)
Failure Rate (in FITS): 9171.671938
MTBF: 109032.5635

Name	Part Number	Category Description	Description	Quantity	Failure Rate	N × Failure Rate	Percent Contribution
1		Main Board				1682.874212	18.34850894
1.1	RC0402DR-0754K9L	Resistor	54.9KΩ 0402	1	0.378383114	0.378383114	0.004125608
1.2	RC0402DR-0733K2L	Resistor	33.2KΩ 0402	1	0.3779898	0.3779898	0.004121132
1.3	RC0402DR-071KL	Resistor	1kΩ 0402	1	0.376655589	0.376655589	0.004106772
1.4	RC0402DR-071KL	Resistor	1KΩ 0402	1	0.376655589	0.376655589	0.004106772
1.5	RC0402DR-071KL	Resistor	1KΩ 0402	1	0.379802436	0.379802436	0.004140683
1.6	RC0402DR-071KL	Resistor	1KΩ 0402	1	0.3802965	0.3802965	0.00414647
1.7	RC0402DR-071KL	Resistor	1KΩ 0402	1	0.3802965	0.3802965	0.00414647
1.8	RC0402DR-071KL	Resistor	1KΩ 0402	1	0.3802965	0.3802965	0.00414647
1.9	RC0402DR-071KL	Resistor	1KΩ 0402	1	0.3802965	0.3802965	0.00414647
1.10	RC0402DR-071KL	Resistor	1KΩ 0402	1	0.3802965	0.3802965	0.00414647
1.11	RC0402DR-0725K5L	Resistor	25.5KΩ 0402	1	0.37593551	0.37593551	0.004098921
1.12	RC0402DR-0720KL	Resistor	20KΩ 0402	1	0.376436288	0.376436288	0.004104381
1.13	RC0402DR-0710KL	Resistor	10KΩ 0402	1	0.376333731	0.376333731	0.004103263
1.14	RC0402DR-0710KL	Resistor	10KΩ 0402	1	0.376333731	0.376333731	0.004103263
1.15	RC0402DR-0710KL	Resistor	10KΩ 0402	1	0.376254518	0.376254518	0.004101399
1.16	RC0402DR-0710KL	Resistor	10KΩ 0402	1	0.376154518	0.376154518	0.004101309
1.17	RC0402DR-0710KL	Resistor	10KΩ 0402	1	0.376154518	0.376154518	0.004101309

Analyst : N Venkata Vega Aravind & Anupam Anand.
Compiled By: Shubham Kumar & V Ambulingam:
Approved By: R Radhika:

Name	Part Number	Category Description	Description	Quantity	Failure Rate	N × Failure Rate	Percent Contribution
1.18	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.376725322	0.376725322	0.004107533
1.19	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.376725322	0.376725322	0.004107533
1.20	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.376725322	0.376725322	0.004107533
1.21	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.378414597	0.378414597	0.004125951
1.22	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.376725322	0.376725322	0.004107533
1.23	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.379628678	0.379628678	0.004139189
1.24	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.379194631	0.379194631	0.004134456
1.25	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.379194631	0.379194631	0.004134456
1.26	RC0201JR-070RL	Resistor	0Ω 0201	1	0.375872959	0.375872959	0.004098239
1.27	RC0201JR-070RL	Resistor	0Ω 0201	1	0.375872959	0.375872959	0.004098239
1.28	RC0201JR-070RL	Resistor	0Ω 0201	1	0.375872959	0.375872959	0.004098239
1.29	RC0201JR-070RL	Resistor	0Ω 0201	1	0.375872959	0.375872959	0.004098239
1.30	RC0201JR-070RL	Resistor	0Ω 0201	1	0.375872959	0.375872959	0.004098239
1.31	RC0201JR-070RL	Resistor	0Ω 0201	1	0.375872959	0.375872959	0.004098239
1.32	RC0201JR-070RL	Resistor	0Ω 0201	1	0.375872959	0.375872959	0.004098239
1.33	RC0201JR-070RL	Resistor	0Ω 0201	1	0.375872959	0.375872959	0.004098239
1.34	RC0201JR-070RL	Resistor	0Ω 0201	1	0.375872959	0.375872959	0.004098239
1.35	RC0201JR-070RL	Resistor	0Ω 0201	1	0.375872959	0.375872959	0.004098239
1.36	RC0201JR-070RL	Resistor	0Ω 0201	1	0.375872959	0.375872959	0.004098239
1.37	RC0201JR-070RL	Resistor	0Ω 0201	1	0.375872959	0.375872959	0.004098239
1.38	RC0402JR-070RL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239

Analyst: N.Venkata Naga Aravind & Anugam Anand
Compiled By: Shubham Kumar & V Jambulingam.
Approved By: R Radhika.

Name	Part Number	Category Description	Description	Quantity	Failure Rate	N X Failure Rate	Percent Contribution
1.39	RC0402JR-07ORL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
1.40	RC0402JR-07ORL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
1.41	RC0402JR-07ORL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
1.42	RC0402JR-07ORL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
1.43	RC0402JR-07ORL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
1.44	RC0402JR-07ORL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
1.45	RC0402JR-07ORL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
1.46	RC0402JR-07ORL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
1.47	RC0402JR-07ORL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
1.48	RC0402JR-07ORL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
1.49	RC0402JR-07ORL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
1.50	RC0402JR-07ORL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
1.51	RC0402JR-07ORL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
1.52	RC0402JR-07ORL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
1.53	RC0402JR-07ORL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
1.54	RC0402JR-07ORL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
1.55	RC0402JR-07ORL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
1.56	RC0402JR-07ORL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
1.57	RC0402JR-07ORL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
1.58	RC0402JR-07ORL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
1.59	RC0402JR-07ORL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239

Analyst : N Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R Radhika

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Name	Part Number	Category Description	Description	Quantity	Failure Rate	N x Failure Rate	Percent Contribution
1 60	RC0402JR 070RL	Resistor	0Ω 0402	1	0.375872959	0 375872959	0.004098239
1 61	RC0402DR-0722RL	Resistor	22Ω 0402	1	0.393472513	0.393472513	0 004290132
1 62	RC0402DR-0722RL	Resistor	22Ω 0402	1	0.393472513	0.393472513	0.004290132
1.63	RC0402DR-0722RL	Resistor	22Ω 0402	1	0.393472513	0.393472513	0.004290132
1.64	RC0402DR-0722RL	Resistor	22Ω 0402	1	0.393472513	0.393472513	0.004290132
1.65	RC0402DR-0722RL	Resistor	22Ω 0402	1	0.393472513	0 393472513	0 004290132
1.66	RC0402DR-0722RL	Resistor	22Ω 0402	1	0.393472513	0 393472513	0.004290132
1 67	RC0402DR-0722RL	Resistor	22Ω 0402	1	0 393472513	0 393472513	0 004290132
1.68	RC0402DR-0722RL	Resistor	22Ω 0402	1	0.393472513	0.393472513	0 004290132
	RC0402DR-0722RL	Resistor	22Ω 0402	1	0.393472513	0.393472513	0.004290132
	RC0402DR-0722RL	Resistor	22Ω 0402	1	0.393472513	0.393472513	0.004290132
1.71	RC0402DR-0733RL	Resistor	330 0402	1	0.375872959	0 375872959	0 004098239
1 72	RC02C1DR-071KL	Resistor	1KΩ 0201	1	0 376851501	0 376851501	0 004108909
1.73	RC0201DR-071KL	Resistor	1KΩ 0201	1	0 377282865	0.377282865	0 004113612
1.74	RC0201DR 071KL	Resistor	1KΩ 0201	1	0 377282865	0.377282865	0 004113612
1 75	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.379194631	0 379194631	0 004134456
1 76	RC0402DR 074K7L	Resistor	4 7KΩ 0402	1	0.379194631	0 379194631	0.004134456
1.77	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.379194631	0 379194631	0.004134456
1 78	RC0402DR-074K7L	Resistor	4 7KΩ 0402	1	0.379194631	0.379194631	0.004134456
1.79	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.379194631	0.379194631	0.004134456
1.80	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.379194631	0.379194631	0.004134456

Analyst: N Venkata Naga Arsvind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R.Radhika

Nam...	Part Numbe.	Category Description	Description	Quantity	Failure Rate	N × Failure Rate	Percent Contributio...
1.81	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.379194631	0.379194631	0.004134456
1.82	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.379194631	0.379194631	0.004134456
1.83	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.379565513	0.379565513	0.0041385
1.84	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.379565513	0.379565513	0.0041385
1.85	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.377675444	0.377675444	0.004117892
1.86	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.377675444	0.377675444	0.004117892
1.87	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.377675444	0.377675444	0.004117892
1.88	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.377675444	0.377675444	0.004117892
1.89	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.377204399	0.377204399	0.004112756
[illegible]	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.377204399	0.377204399	0.004112756
[illegible]	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.377204399	0.377204399	0.004112756
1.92	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.377204399	0.377204399	0.004112756
1.93	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.377204399	0.377204399	0.004112756
1.94	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.377204399	0.377204399	0.004112756
1.95	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.377204399	0.377204399	0.004112756
1.96	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.377204399	0.377204399	0.004112756
1.97	RC0402DR-07100KL	Resistor	100KΩ 0402	1	0.376577252	0.376577252	0.004105918
1.98	RC0402DR-07100KL	Resistor	100KΩ 0402	1	0.376577252	0.376577252	0.004105918
1.99	RC0402DR-07100KL	Resistor	100KΩ 0402	1	0.376577252	0.376577252	0.004105918
1.100	RC0402DR-07100KL	Resistor	100KΩ 0402	1	0.376577252	0.376577252	0.004105918
1.101	RC0402DR-07100KL	Resistor	100KΩ 0402	1	0.376577252	0.376577252	0.004105918

Analyst : N.Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R.Radhika

Name	Part Number	Category Description	Description	Quantity	Failure Rate	N * Failure Rate	Percent Contribution
1.102	RC0402DR-0710OKL	Resistor	100KΩ 0402	1	0.376577252	0.376577252	0.004105918
1.103	RC0402DR-0710OKL	Resistor	100KΩ 0402	1	0.376577252	0.376577252	0.004105918
1.104	RC0402DR-0710OKL	Resistor	100KΩ 0402	1	0.37869806	0.37869806	0.004129042
1.105	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V 0402	1	0.174582038	0.174582038	0.001903513
1.106	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V 0402	1	0.151865424	0.151865424	0.001655828
1.107	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V 0402	1	0.151865424	0.151865424	0.001655828
1.108	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V 0402	1	0.124735409	0.124735409	0.001360022
1.109	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V 0402	1	0.151865424	0.151865424	0.001655828
1.110	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V 0402	1	0.131025867	0.131025867	0.001428609
1.111	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V 0402	1	0.151865424	0.151865424	0.001655828
1.112	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V 0402	1	0.151865424	0.151865424	0.001655828
1.113	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V 0402	1	0.174582038	0.174582038	0.001903513
1.114	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V 0402	1	0.131025867	0.131025867	0.001428609
1.115	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V 0402	1	0.131025867	0.131025867	0.001428609
1.116	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V 0402	1	0.131025867	0.131025867	0.001428609
1.117	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V 0402	1	0.151865424	0.151865424	0.001655828
1.118	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V 0402	1	0.151865424	0.151865424	0.001655828
1.119	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V 0402	1	0.151865424	0.151865424	0.001655828
1.120	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V 0402	1	0.134289076	0.134289076	0.001464186
1.121	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V 0402	1	0.134289076	0.134289076	0.001464186
1.122	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V 0402	1	0.138766791	0.138766791	0.00151301

Analyst : N.Venkata Naga Aravind & Anupam Anand:
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R Radhika:

Name	Part Number	Category Description	Description	Quantity	Failure Rate	% Failure Rate	Percent Contribution
1.123	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V C402	1	0.134289076	0.134289076	0.001464185
1.124	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V C402	1	0.131025867	0.131025867	0.001428609
1.125	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V C402	1	0.131025867	0.131025867	0.001428609
1.126	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V C402	1	0.131025867	0.131025867	0.001428609
1.127	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V C402	1	0.131025867	0.131025867	0.001428609
1.128	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V C402	1	0.131025867	0.131025867	0.001428609
1.129	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V C402	1	0.131025867	0.131025867	0.001428609
1.130	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V C402	1	0.131025867	0.131025867	0.001428609
1.131	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V C402	1	0.151865424	0.151865424	0.001655828
1.132	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V C402	1	0.174582038	0.174582038	0.001903513
1.133	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V C402	1	0.151865424	0.151865424	0.001655828
1.134	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V C402	1	0.151865424	0.151865424	0.001655828
1.135	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V C402	1	0.151865424	0.151865424	0.001655828
1.136	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V C402	1	0.151865424	0.151865424	0.001655828
1.137	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V C402	1	0.151865424	0.151865424	0.001655828
1.138	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V C402	1	0.151865424	0.151865424	0.001655828
1.139	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V C402	1	0.174582038	0.174582038	0.001903513
1.140	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V C402	1	0.151865424	0.151865424	0.001655828
1.141	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V C402	1	0.174582038	0.174582038	0.001903513
1.142	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V C402	1	0.174582038	0.174582038	0.001903513
1.143	CC0603KRX5R8BB106	Capacitor	10uF±10% 25V C603	1	0.136509576	0.136509576	0.001488399

Analyst: N Venkata Naga Aravind & Anupam Anand
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Name	Part Number	Category Description	Desanation	Quantity	Failure Rate	N * Failure Rate	Percent Contribution
1.144	CC0603KRX5R8BB105	Capacitor	10uF±10% 25V 0603	1	0.199057706	0.199057706	0.002170377
1.145	CC0603KRX5R8BB106	Capacitor	10uF±10% 25V 0603	1	0.199057706	0.199057706	0.002170377
1.146	CC0603KRX5R8BB106	Capacitor	10uF±10% 25V 0603	1	0.134289076	0.134289076	0.001464188
1.147	CC0603KRX5R8BB106	Capacitor	10uF±10% 25V 0603	1	0.134289076	0.134289076	0.001464188
1.148	CC0603KRX5R8BB106	Capacitor	10uF±10% 25V 0603	1	0.199057706	0.199057706	0.002170377
1.149	CC0603KRX5R8BB106	Capacitor	10uF±10% 25V 0603	1	0.26306332	0.26306332	0.002868247
1.150	CC0603KRX5R8BB106	Capacitor	10uF±10% 25V 0603	1	0.199057706	0.199057706	0.002170377
1.151	CC0603KRX5R8BB106	Capacitor	10uF±10% 25V 0603	1	0.26306332	0.26306332	0.002868247
1.152	CC0603KRX5R8BB106	Capacitor	10uF±10% 25V 0603	1	0.26306332	0.26306332	0.002868247
1.153	CC0603KRX5R8BB106	Capacitor	10uF±10% 25V 0603	1	0.148175112	0.148175112	0.001615591
1.154	CC0603KRX5R8BB106	Capacitor	10uF±10% 25V 0603	1	0.148175112	0.148175112	0.001615591
	CC0603KRX5R8BB106	Capacitor	10uF±10% 25V 0603	1	0.199057706	0.199057706	0.002170377
1.156	CC0603KRX5R8BB106	Capacitor	10uF±10% 25V 0603	1	0.148175112	0.148175112	0.001615591
1.157	CC0603KRX5R8BB106	Capacitor	10uF±10% 25V 0603	1	0.26306332	0.26306332	0.002868247
1.158	CC0603KRX5R8BB106	Capacitor	10uF±10% 25V 0603	1	0.26306332	0.26306332	0.002868247
1.159	CC0603KRX5R8BB106	Capacitor	10uF±10% 25V 0603	1	0.199057706	0.199057706	0.002170377
1.160	CC0603KRX5R8BB106	Capacitor	10uF±10% 25V 0603	1	0.199057706	0.199057706	0.002170377
1.161	CC0402KRX5R9BB224	Capacitor	0.22uF±10% 50V 0402	1	0.151865424	0.151865424	0.001655825
1.162	CC0402KRX5R9BB224	Capacitor	0.22uF±10% 50V 0402	1	0.12321056	0.12321056	0.001343396
1.163	CC0402KRX5R9BB224	Capacitor	0.22uF±10% 50V 0402	1	0.12321056	0.12321056	0.001343396
1.164	CC0402KRX5R9BB224	Capacitor	0.22uF±10% 50V 0402	1	0.131025867	0.131025867	0.001428609

Analyst : N.Venkata Naga Aravind & Anupam Anand.
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Index	Part Number	Category Description	Description	Quantity	Failure Rate	N x Failure Rate	Percent Contribution
1.165	CC0402KRX5R9BB224	Capacitor	0.22uF±10% 50V 0402	1	0.131025867	0.131025867	0.001428609
1.166	CC0402KRX5R9BB224	Capacitor	0.22uF±10% 50V 0402	1	0.131025867	0.131025867	0.001428609
1.167	CC0402KRX5R9BB224	Capacitor	0.22uF±10% 50V 0402	1	0.12321056	0.12321056	0.001343396
1.168	CC0402KRX5R9BB224	Capacitor	0.22uF±10% 50V 0402	1	0.12321056	0.12321056	0.001343396
1.169	CC0402KRX5R9BB224	Capacitor	0.22uF±10% 50V 0402	1	0.151865424	0.151865424	0.001655828
1.170	CC0402KRX5R9BB224	Capacitor	0.22uF±10% 50V 0402	1	0.124735409	0.124735409	0.001360022
1.171	CC0402KRX5R9BB475	Capacitor	4.7uF±10% 50V 0402	1	0.145764858	0.145764858	0.001589312
1.172	CC0402KRX5R9BB475	Capacitor	4.7uF±10% 50V 0402	1	0.131025867	0.131025867	0.001428609
1.173	CC0402KRX5R9BB475	Capacitor	4.7uF±10% 50V 0402	1	0.131025867	0.131025867	0.001428609
	CC0402KRX5R9BB475	Capacitor	4.7uF±10% 50V 0402	1	0.131025867	0.131025867	0.001428609
	CC0402KRX5R9BB475	Capacitor	4.7uF±10% 50V 0402	1	0.131025867	0.131025867	0.001428609
	CC0402KRX5R9BB475	Capacitor	4.7uF±10% 50V 0402	1	0.131025867	0.131025867	0.001428609
1.177	CC0402KRX5R9BB475	Capacitor	4.7uF±10% 50V 0402	1	0.131025867	0.131025867	0.001428609
1.178	CC0402KRX5R9BB475	Capacitor	4.7uF±10% 50V 0402	1	0.131025867	0.131025867	0.001428609
1.179	CC0402KRX5R9BB475	Capacitor	4.7uF±10% 50V 0402	1	0.131025867	0.131025867	0.001428609
1.180	CC0402KRX5R9BB475	Capacitor	4.7uF±10% 50V 0402	1	0.145764858	0.145764858	0.001589312
1.181	CC0402KRX5R9BB475	Capacitor	4.7uF±10% 50V 0402	1	0.131025867	0.131025867	0.001428609
1.182	CC0402KRX5R9BB475	Capacitor	4.7uF±10% 50V 0402	1	0.131025867	0.131025867	0.001428609
1.183	CC0402KRX5R9BB475	Capacitor	4.7uF±10% 50V 0402	1	0.131025867	0.131025867	0.001428609
1.184	CC0402KRX5R9BB475	Capacitor	4.7uF±10% 50V 0402	1	0.145764858	0.145764858	0.001589312
1.185	CC0402KRX5R9BB475	Capacitor	4.7uF±10% 50V 0402	1	0.145764858	0.145764858	0.001589312

Analyst : N Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jamdagnan
Approved By: R.Radhika

Name	Part Number	Category Description	Description	Quantity	Failure Rate	N * Failure Rate	Percent Contribution
1.186	CC0402KRX5R8BB225	Capacitor	2.2uF±10% 25V 0402	1	0.134289076	0.134289076	0.001464188
1.187	CC0402KRX5R8BB225	Capacitor	2.2uF±10% 25V 0402	1	0.155647644	0.155647644	0.001697066
1.188	CC0402KRX5R8BB225	Capacitor	2.2uF±10% 25V 0402	1	0.199057706	0.199057706	0.002170377
1.189	CC0402KRX5R8BB225	Capacitor	2.2uF±10% 25V 0402	1	0.155647644	0.155647644	0.001697066
1.190	CC0402KRX5R8BB225	Capacitor	2.2uF±10% 25V 0402	1	0.155647644	0.155647644	0.001697066
1.191	CC0402KRX5R8BB225	Capacitor	2.2uF±10% 25V 0402	1	0.155647644	0.155647644	0.001697066
1.192	CC0402KRX5R8BB225	Capacitor	2.2uF±10% 25V 0402	1	0.199057706	0.199057706	0.002170377
1.193	CC0402KRX5R8BB225	Capacitor	2.2uF±10% 25V 0402	1	0.155647644	0.155647644	0.001697066
1.194	CC0402KRX5R8BB225	Capacitor	2.2uF±10% 25V 0402	1	0.199057706	0.199057706	0.002170377
1.195	CC0402KRX5R8BB225	Capacitor	2.2uF±10% 25V 0402	1	0.199057706	0.199057706	0.002170377
1.196	CC0402KRX5R8BB225	Capacitor	2.2uF±10% 25V 0402	1	0.134289076	0.134289076	0.001464188
1.197	CC0402KRX5R8BB225	Capacitor	2.2uF±10% 25V 0402	1	0.199057706	0.199057706	0.002170377
1.198	CC0402KRX5R8BB225	Capacitor	2.2uF±10% 25V 0402	1	0.199057706	0.199057706	0.002170377
1.199	CC0402KRX5R8BB225	Capacitor	2.2uF±10% 25V 0402	1	0.134289076	0.134289076	0.001464188
1.200	CC0402JRX7R9BB121	Capacitor	120pF±5% 50V 0402	1	0.134289076	0.134289076	0.001464188
1.201	CC0402JRX7R9BB121	Capacitor	120pF±5% 50V 0402	1	0.134289076	0.134289076	0.001464188
1.202	CC0402JRX7R9BB121	Capacitor	120pF±5% 50V 0402	1	0.151865424	0.151865424	0.001655828
1.203	CC0402JRX7R9BB121	Capacitor	120pF±5% 50V 0402	1	0.151865424	0.151865424	0.001655828
1.204	CC0402JRX7R9BB101	Capacitor	100pF±5% 50V 0402	1	0.151865424	0.151865424	0.001655828
1.205	CC0402JRX7R9BB101	Capacitor	100pF±5% 50V 0402	1	0.151865424	0.151865424	0.001655828
1.206	CC0201JRX7R7BB77	Capacitor	1000pF±5% 16V 0201	1	0.269891429	0.269891429	0.002942095

Analyst N.Venkata Naga Aravind & Anubam Anand
Compiled By Shubham Kumar & V Jambulingam.
Approved By R Radhika.

Nar...	...art Numbe...	Category Description	Description	Quantity	...ailure Rate	M... ...ailure Rate	Percen... Contribution
1.207	CC0201JRX7R73878	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.208	CC0201JRX7R73879	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.209	CC0201JRX7R73880	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.210	CC0201JRX7R76381	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.211	CC0201JRX7R7BBR7	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.212	CC0201JRX7R78583	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.213	CC0201JRX7R78584	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.214	CC0201JRX7R78585	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.215	CC0201JRX7R78586	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.216	CC0201JRX7R78587	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.217	CC0201JRX7R78588	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.218	CC0201JRX7R78589	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.219	CC0201JRX7R78590	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.220	CC0201JRX7R78591	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.221	CC0201JRX7R78592	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.222	CC0201JRX7R78593	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.223	CC0201JRX7R78594	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.224	CC0201JRX7R78595	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.225	CC0201JRX7R78596	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.226	CC0201JRX7R78597	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.227	CC0201JRX7R78598	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069

Analyst N.Venkata Naga Aravind & Anupam Anand
Compiled By Shubham Kumar & V Jambulingam
Approved By R.Radhika

Name	Part Number	Category Description	Cosmption	Quantity	Failure Rate	N × Failure Rate	Percent Contribution
1.228	CC0201JRX7R7BB399	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.229	CC0201JRX7R7BB100	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.230	CC0201JRX7R7BB101	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.231	CC0201JRX7R7BB102	Capacitor	1000pF±5% 16V 0201	1	0.157573933	0.157573933	0.001718069
1.232	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V 0402	1	0.151865424	0.151865424	0.001655828
1.233	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V 0402	1	0.125762444	0.125762444	0.00137122
1.234	CC0402KRX7R9BB104	Capacitor	0.1uF±10% 50V 0402	1	0.174582038	0.174582038	0.001903513
1.235	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396
1.236	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.134289076	0.134289076	0.001464188
1.237	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.127841954	0.127841954	0.001393894
1.238	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.127841954	0.127841954	0.001393894
1.239	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.142222789	0.142222789	0.001550692
1.240	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.127841954	0.127841954	0.001393894
1.241	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.127841954	0.127841954	0.001393894
1.242	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396
1.243	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396
1.244	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396
1.245	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396
1.246	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396
1.247	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396
1.248	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396

Analyst: N Venkata Naga Aravind & Anubam Arano:
Compiled By: Shubham Kumar & V Jambulingam.
Approved By: R.Radhika.

Name	Part Number	Category Description	Description	Quantity	Failure Rate	N x Failure Rate	Percent Contribution
1.249	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396
1.250	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396
1.251	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396
1.252	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396
1.253	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396
1.254	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396
1.255	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396
1.256	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396
1.257	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396
1.258	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396
1.259	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396
1.260	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396
1.261	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396
1.262	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396
1.263	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.12321056	0.12321056	0.001343396
1.264	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.127841954	0.127841954	0.001393894
1.265	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.127841954	0.127841954	0.001393894
1.266	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.127841954	0.127841954	0.001393894
1.267	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.127841954	0.127841954	0.001393894
1.268	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.127841954	0.127841954	0.001393894
1.269	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.127841954	0.127841954	0.001393894

Analyst: N Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R.Rachika

Name	Part Number	Category Description	Description	Quantity	Failure Rate	N x Failure Rate	Percent Contribution
1.270	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.127841954	0.127841954	0.001393894
1.271	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.127841954	0.127841954	0.001393894
1.272	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.127841954	0.127841954	0.001393894
1.273	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.127841954	0.127841954	0.001393894
1.274	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.127841954	0.127841954	0.001393894
1.275	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.127841954	0.127841954	0.001393894
1.276	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.127841954	0.127841954	0.001393894
1.277	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.127841954	0.127841954	0.001393894
1.278	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.127841954	0.127841954	0.001393894
1.279	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.127841954	0.127841954	0.001393894
1.280	CC0201KRX7R9BB104	Capacitor	0.1uF±10% 50V 0201	1	0.127841954	0.127841954	0.001393894
1.281	CC0805KRX5R8BB106	Capacitor	10uF±10% 25V 0805	1	0.131025867	0.131025867	0.001428609
1.282	CC0805KRX5R8BB106	Capacitor	10uF±10% 25V 0805	1	0.14106133	0.14106133	0.001538028
1.283	CC0805KRX5R8BB106	Capacitor	10uF±10% 25V 0805	1	0.829144763	0.829144763	0.009040378
1.284	CC0805KRX5R8BB106	Capacitor	10uF±10% 25V 0805	1	0.829144763	0.829144763	0.009040378
1.285	CC0805KRX5R8BB106	Capacitor	10uF±10% 25V 0805	1	0.829144763	0.829144763	0.009040378
1.286	CC0805KRX5R8BB106	Capacitor	10uF±10% 25V 0805	1	0.131025867	0.131025867	0.001428609
1.287	CC0805KRX5R8BB106	Capacitor	10uF±10% 25V 0805	1	0.26306332	0.26306332	0.002868247
1.288		Connector	0.5mm FFC/FPC 12 PIN SMD	1	4.32	4.32	0.047102067
1.289		Connector	0.5mm FFC/FPC 30 PIN SMD	1	10.8	10.8	0.117755169
1.290		Connector	0.5mm FFC/FPC 24 PIN SMD	1	8.64	8.64	0.094204135

Analyst : N Venkata Naga Aravind & Anupam Anand
Compiled By: Subham Kumar & V Jamuxdingam
Approved By: R.Radhika:

Name	Part Number	Category Description	Description	Quantity	Failure Rate	FIT Contribution	Percent Contribution
1.291	532530470	Connector	Conn, B2C,TB, Male, 1x4, 1.25mm, SMD	1	1.44	1.44	0.015700689
1.292	532530470	Connector	Conn, B2C,TB, Male, 1x4, 1.25mm, SMD	1	1.44	1.44	0.015700689
1.293	8901082075I9	Crystal	24MHz,SMD 3.2*2.5mm,20pF,±20PPM	1	28.8	28.8	0.314013783
1.294	FC-135 32.7680KA-A5	Crystal	32.768KHz,12.5pF,±20PPM,3.2*1.5,SMD	1	28.8	28.8	0.314013783
1.295	TPS562201DDCR	IC-Analog Device	2A synchronous step-down converter	1	18.9	18.9	0.206071545
1.296	TPS562201DDCR	IC-Analog Device	2A synchronous step-down converter	1	18.9	18.9	0.206071545
1.297	TLV62569DBVR	IC-Analog Device	2A synchronous step-down converter	1	18.9	18.9	0.206071545
1.298	TLV62569DBVR	IC-Analog Device	2A synchronous step-down converter	1	18.9	18.9	0.206071545
1.299	TLV62569DBVR	IC-Analog Device	2A synchronous step-down converter	1	18.9	18.9	0.206071545
1.300	TLV70225DBVR	IC-Analog Device	300mA Low Dropout Regulator	1	10.8	10.8	0.117755169
1.301	RT9078/N 08	IC-Analog Device	300mA Low-Dropout Regulator	1	10.8	10.8	0.117755169
1.302	TPS62568DRLR	IC-Analog Device	3A synchronous step down converter	1	18.9	18.9	0.206071545
1.303	CV28s33m	IC-Microprocessor	IC,CV28S33M,vision processor,VFBGA-288_0.65_11*12mm	1	515.7	515.7	5.627509301
1.304	ES8323S	IC-Digital Device	Low Power Audio Codec	1	36	36	0.392617229
1.305	DP83825IRMQR	IC-Digital Device	Single-port Physical Layer transceiver	1	34.29	34.29	0.373877766
1.306	SN74AVCH2T45DCU	IC-Digital Device	Dual-Bit voltage level translator	1	24.93	24.93	0.271816181
1.307	MP8611TEU5	IC-Digital Device	Microprocessor Supervisory	1	20.7	20.7	0.225697406
1.308	MT40A512M16LY-062E IT:E	IC-Memory	IC MEM,8Gb,1200MHz, DDR4,BGA96	1	209.79	209.79	2.28739415
1.309	MX35LF1GE4AB	IC-Memory	IC,SERIAL NAND, 1Gb,WSON8	1	386.91	386.91	4.218576915
1.310	0415CDMCCDS-2R2MC	Inductor	Power Inductor, 2.2uH,1.85A,SMD	1	2.16	2.16	0.023551034

Analyst : N.Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V.Jambulingam
Approved By: R Radhika

Name	Part Number	Category Description	Description	Quantity	Failure Rate	N × Failure Rate	Percent Contribution
1.311	0415CDMCCDS-2R2MC	Inductor	Power inductor, 2.2uH,1.85A,SMD	1	2.16	2.16	0.023551034
1.312	0415CDMCCDS-2R2MC	Inductor	Power inductor, 2.2uH,1.85A,SMD	1	2.16	2.16	0.023551034
1.313	SRR5228A-4R7Y	Inductor	Power inductor, 4.7uH,2A,SMD	1	2.16	2.16	0.023551034
1.314	SRR5228A-4R7Y	Inductor	Power inductor, 4.7uH,2A,SMD	1	2.16	2.16	0.023551034
1.315	0415CDMCCDS-2R2MC	Inductor	Power inductor,2.2uH,2A,SMD	1	2.16	2.16	0.023551034
1.316	4R681686	Transformer	10/100Base-T transformer	1	88.2	88.2	0.961667
1.317	RCP0640SC	Diode	TVS Surge Supressor	1	7.007312875	7.007312875	0.076402529
1.318	SVBU5CA	Diode	TVS Surge Supressor	1	5.511821627	5.511821627	0.060096804
1.319	RB521S30T1	Diode	Thyristor	1	36.67788316	36.67788316	0.399908363
1.320	PESD0402ASC5	Diode	TVS Surge Supressor	1	5.387292483	5.387292483	0.058739033
1.321	LC03I	Diode	TVS Surge Supressor	1	5.4225595	5.4225595	0.059123556
1.322	LC03I	Diode	TVS Surge Supressor	1	5.4225595	5.4225595	0.059123556
2		Control Board				1706.350897	18.61001452
2.1	RC0603DR-071K0GL	Resistor	1KΩ 0603	1	0.456802537	0.456802537	0.004980635
2.2	RC0603DR-071K0GL	Resistor	1KΩ 0603	1	0.456802537	0.456802537	0.004980635
2.3	RC0603DR-071K0GL	Resistor	1KΩ 0603	1	0.456802537	0.456802537	0.004980635
2.4	RC0603DR-071K0GL	Resistor	1KΩ 0603	1	0.456802537	0.456802537	0.004980635
2.5	RC0603DR-070R0GL	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
2.6	RC0603DR-070R0GL	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
2.7	RC0603DR-070R0GL	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239

Analyst : N.Venkata Naga Aravind & Anudeep Anand
Compiled By: Shubham Kumar & V Jambulingam.
Approved By: R.Radhika

Name	Part Number	Category Description	Description	Quantity	Failure Rate	Normalized Rate	Percent Contribution
2.8	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
2.9	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
2.10	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
2.11	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
2.12	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
2.13	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
2.14	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
2.15	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
2.16	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
2.17	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
2.18	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
2.19	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
2.20	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
2.21	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
2.22	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
2.23	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
2.24	RC0402JR-070R00L	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
2.25	RC0402JR-070R00L	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
2.26	RC0402JR-070R00L	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
2.27	RC0402JR-070R00L	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
2.28	RC0402JR-070R00L	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239

Analyst : N Venkata Naga Aravind & Anucam Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R.Radhika

Name	Part Number	Category Description	Description	Quantity	Failure Rate	N * Failure Rate	Percent Contribution
2.29	RC0402JR-070R00L	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098230
2.30	RC0402JR-070R00L	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
2.31	RC0402JR-070R00L	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
2.32	RC0402DR-0751K0L	Resistor	510Ω 0402	1	0.378438211	0.378438211	0.004126209
2.33	RC0402DR-0751K0L	Resistor	510Ω 0402	1	0.379723445	0.379723445	0.004140222
2.34	RC0402DR-0751K0L	Resistor	510Ω 0402	1	0.378944441	0.378944441	0.004131619
2.35	RC0402DR-0751K0L	Resistor	510Ω 0402	1	0.377282865	0.377282865	0.004113612
2.36	RC0402DR-0751K0L	Resistor	510Ω 0402	1	0.379723445	0.379723445	0.004140222
2.37	RC0402DR-0751K0L	Resistor	510Ω 0402	1	0.378438211	0.378438211	0.004126209
2.38	RC0402DR-0751K0L	Resistor	510Ω 0402	1	0.378438211	0.378438211	0.004126209
2.39	RC0402DR-0710K0L	Resistor	10KΩ 0402	1	0.384484091	0.384484091	0.004192129
2.40	RC0402DR-0710K0L	Resistor	10KΩ 0402	1	0.384484091	0.384484091	0.004192129
2.41	RC0402DR-0710K0L	Resistor	10KΩ 0402	1	0.384484091	0.384484091	0.004192129
2.42	RC0603DR-0710K0L	Resistor	10KΩ 0603	1	0.391228275	0.391228275	0.004265662
2.43	RC0603DR-0710K0L	Resistor	10KΩ 0603	1	0.391228275	0.391228275	0.004265662
2.44	RC0603DR-0710K0L	Resistor	10KΩ 0603	1	0.381232037	0.381232037	0.004156671
2.45	RC0603DR-0710K0L	Resistor	10KΩ 0603	1	0.381232037	0.381232037	0.004156671
2.46	RC0603DR-0710K0L	Resistor	10KΩ 0603	1	0.386024644	0.386024644	0.004208926
2.47	RC0603DR-0710K0L	Resistor	10KΩ 0603	1	0.381232037	0.381232037	0.004156671
2.48	RC0603DR-0710K0L	Resistor	10KΩ 0603	1	0.382279192	0.382279192	0.004168082
2.49	RC0603DR-0710K0L	Resistor	10KΩ 0603	1	0.391228275	0.391228275	0.004265662

Analyst : N.Venkata Naga Aravind & Anupam Anand;
Compiled By: Shubham Kumar & V Jambulingam;
Approved By: R.Radhika

Mar...	...st Number	Category Description	Description	Quantity	...ature Rate	N... ...ature Rate	Percen... Contribution
2.50	RC0603DR-0710KOL	Resistor	10KΩ 0603	1	0.391228275	0.391228275	0.004265662
2.51	RC0603DR-0710KOL	Resistor	10KΩ 0603	1	0.3760489C9	0.376048909	0.004100158
2.52	RC0603DR-0710K0L	Resistor	10KΩ 0603	1	0.381232037	0.381232037	0.004156671
2.53	RC0603DR-0710K0L	Resistor	10KΩ 0603	1	0.381232037	0.381232037	0.004156671
2.54	RC0603DR-0710K0L	Resistor	10KΩ 0603	1	0.381232037	0.381232037	0.004156671
2.55	RC0603DR-0710K0L	Resistor	10KΩ 0603	1	0.381232037	0.381232037	0.004156671
2.56	RC0603DR-0710KOL	Resistor	10KΩ 0603	1	0.381232037	0.381232037	0.004156671
2.57	RC0603DR-0710KOL	Resistor	10KΩ 0603	1	0.381232037	0.381232037	0.004156671
2.58	RC0603DR-0710KOL	Resistor	10KΩ 0603	1	0.381232037	0.381232037	0.004156671
2.59	RC0603DR-0710KOL	Resistor	10KΩ 0603	1	0.378324091	0.378324091	0.004124063
2.60	RC0603DR-0710KOL	Resistor	10KΩ 0603	1	0.376998501	0.376998501	0.004110511
2.61	RC0603DR-0733ROL	Resistor	33Ω 0603	1	0.381232037	0.381232037	0.004156671
2.62	RC0603DR-0710KOL	Resistor	10KΩ 0603	1	0.376361912	0.376361912	0.004103577
2.63	RC0603DR-0736KOL	Resistor	36KΩ 0603	1	0.37735399	0.37735399	0.004114387
2.64	RC0603DR-0747KOL	Resistor	47KΩ 0603	1	0.391126568	0.391126568	0.004264553
2.65	RC0603DR-0747KOL	Resistor	47KΩ 0603	1	0.391126568	0.391126568	0.004264553
2.66	RC0603DR-0747KOL	Resistor	47KΩ 0603	1	0.376998501	0.376998501	0.004110511
2.67	RC0603DR-075K6OL	Resistor	5.6KΩ 0603	1	0.388643011	0.388643011	0.004237474
2.68	RC0603DR-075K6OL	Resistor	5.6KΩ 0603	1	0.388643011	0.388643011	0.004237474
2.69	RC0603DR-075K60L	Resistor	5.6KΩ 0603	1	0.388643011	0.388643011	0.004237474
2.70	RC0603DR-075K60L	Resistor	5.6KΩ 0603	1	0.388643011	0.388643011	0.004237474

Analyst: N Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R.Radhika

Name	Part Number	Category Description	Description	Quantity	Failure Rate	N × Failure Rate	Percent Contribution
2.71	RC0603DR-075K6OL	Resistor	5.6KΩ 0603	1	0.388643011	0.388643011	0.004237474
2.72	RC0603DR-075K6OL	Resistor	5.6KΩ 0603	1	0.385473023	0.385473023	0.004202911
2.73	RC0603DR-075K6OL	Resistor	5.6KΩ 0603	1	0.385473023	0.385473023	0.004202911
2.74	RC0603DR-07100KL	Resistor	100KΩ 0603	1	0.376405459	0.376405459	0.004104045
2.75	RC0603DR-07100KL	Resistor	100KΩ 0603	1	0.382975574	0.382975574	0.004175681
2.76	RC0603DR-07100KL	Resistor	100KΩ 0603	1	0.382975574	0.382975574	0.004175681
2.77	RC0603DR-07100KL	Resistor	100KΩ 0603	1	0.382975574	0.382975574	0.004175681
2.78	RC0603DR-07100KL	Resistor	100KΩ 0603	1	0.376405459	0.376405459	0.004104045
2.79	RC0603DR-07100KL	Resistor	100KΩ 0603	1	0.376655589	0.376655589	0.004106772
2.80	RC0603DR-0718KOL	Resistor	18KΩ 0603	1	0.391584454	0.391584454	0.004269546
2.81	RC0603DR-0720KOL	Resistor	20KΩ 0603	1	0.426943298	0.426943298	0.004655072
2.82	RC0603DR-072K2OL	Resistor	2.2KΩ 0603	1	0.379062543	0.379062543	0.004133016
2.83	RC0603DR-072K2OL	Resistor	2.2KΩ 0603	1	0.379062543	0.379062543	0.004133016
2.84	RC0603DR-0730KOL	Resistor	30KΩ 0603	1	0.37822574	0.37822574	0.004123892
2.85	RC0603DR-0730KOL	Resistor	30KΩ 0603	1	0.37822574	0.37822574	0.004123892
2.86	RC0603DR-073OKOL	Resistor	30KΩ 0603	1	0.377047514	0.377047514	0.004111046
2.87	RC0603DR-0730KOL	Resistor	30KΩ 0603	1	0.377047514	0.377047514	0.004111046
2.88	RC0603DR-0730KOL	Resistor	30KΩ 0603	1	0.377650896	0.377650896	0.004117625
2.89	RC0603DR-0730KOL	Resistor	30KΩ 0603	1	0.377650896	0.377650896	0.004117625
2.90	RC0603DR-0730KOL	Resistor	30KΩ 0603	1	0.377145559	0.377145559	0.004112113
2.91	RC0603DR-0733KOL	Resistor	33KΩ 0603	1	0.376949495	0.376949495	0.004109977

Analyst: N Venkata Naga Aravind & Anubam Anand
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Name	Part Number	Category / Description	Description	Quantity	Failure Rate	% Failure Rate	Percent Contribution
2.93	RC0603DR-074K70L	Resistor	4.7KΩ 0603	1	0.376445097	0.376445097	0.004104477
2.94	RC0603DR-074K70L	Resistor	4.7KΩ 0603	1	0.376445097	0.376445097	0.004104477
2.95	RC0603DR-074K70L	Resistor	4.7KΩ 0603	1	0.387331615	0.387331615	0.004223176
2.96	RC0603DR-074K70L	Resistor	4.7KΩ 0603	1	0.387331615	0.387331615	0.004223176
2.97	RC0603DR-074K70L	Resistor	4.7KΩ 0603	1	0.387331615	0.387331615	0.004223176
2.98	RC0603DR-074K70L	Resistor	4.7KΩ 0603	1	0.387331615	0.387331615	0.004223176
2.99	RC0603DR-074K70L	Resistor	4.7KΩ 0603	1	0.387331615	0.387331615	0.004223176
2.100	RC0603DR-074K70L	Resistor	4.7KΩ 0603	1	0.387331615	0.387331615	0.004223176
2.101	RC0603DR-074K70L	Resistor	4.7KΩ 0603	1	0.387331615	0.387331615	0.004223176
2.102	RC0603DR-0751K0L	Resistor	51KΩ 0603	1	0.376915194	0.376915194	0.004109603
2.103	RC0603DR-0751K0L	Resistor	51KΩ 0603	1	0.376915194	0.376915194	0.004109603
2.104	RC0603DR-0751K0L	Resistor	51KΩ 0603	1	0.376915194	0.376915194	0.004109603
2.105	RC0603DR-0751K0L	Resistor	51KΩ 0603	1	0.376915194	0.376915194	0.004109603
2.106	RC0603DR-0751K0L	Resistor	51KΩ 0603	1	0.376915194	0.376915194	0.004109603
2.107	RC0603DR-0751K0L	Resistor	51KΩ 0603	1	0.376915194	0.376915194	0.004109603
2.108	RC0603DR-0751K0L	Resistor	51KΩ 0603	1	0.376915194	0.376915194	0.004109603
2.109	RC0603DR-076K20L	Resistor	6.2KΩ 0603	1	0.377279056	0.377279056	0.004113565
2.110	RC0603DR-0751K0L	Resistor	51KΩ 0603	1	0.376915194	0.376915194	0.004109603
2.111	RC0603DR-0751K0L	Resistor	51KΩ 0603	1	0.376915194	0.376915194	0.004109603
2.112	RC0603DR-0751K0L	Resistor	51KΩ 0603	1	0.376915194	0.376915194	0.004109603

Analyst : N Venkata Naga Aravind & Anupam Anand
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Name	Part Number	Category Description	Description	Quantity	Failure Rate	N * Failure Rate	Percent Contribution
2.113	RC1206DR-071R00L	Resistor	1Ω 1206	1	0.376361912	0.376361912	0.00410357
2.114	RC1206DR-071R00L	Resistor	1Ω 1206	1	0.376361912	0.376361912	0.00410357
2.115	RC1206DR-071R00L	Resistor	1Ω 1206	1	0.376361912	0.376361912	0.00410357
2.116	RC1206DR-071R00L	Resistor	1Ω 1206	1	0.376361912	0.376361912	0.00410357
2.117	RC1206DR-070R25L	Resistor	0.25Ω 1206	1	0.376224941	0.376224941	0.004102077
2.118	RC1206DR-070R25L	Resistor	0.25Ω 1206	1	0.376224941	0.376224941	0.004102077
2.119	RC1206DR-070R25L	Resistor	0.25Ω 1206	1	0.376224941	0.376224941	0.004102077
2.120	RC1206DR-070R25L	Resistor	0.25Ω 1206	1	0.376224941	0.376224941	0.004102077
2.121	CC0603KRX7R6BB106	Capacitor	10uF 0603	1	0.448269567	0.448269567	0.004887598
2.122	CC0603KRX7R6BB106	Capacitor	10uF 0603	1	0.448269567	0.448269567	0.004887598
2.123	CC1206KRX7RBBB106	Capacitor	10uF 1206	1	0.199057706	0.199057706	0.002170377
2.124	CC1206KRX7RBBB106	Capacitor	10uF 1206	1	0.199057706	0.199057706	0.002170377
2.125	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.126	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.127	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.128	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.129	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.130	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.131	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.132	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.133	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378

EFKON INDIA PVT. LTD.

Ne...	Part Number	Category Description	Description	Quantity	Failure Rate	N... Failure Rate	Percen Contribution
2.134	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.135	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.136	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.137	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.138	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.199057706	0.199057706	0.002170377
2.139	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.199057706	0.199057706	0.002170377
2.140	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.141	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.142	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.143	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.144	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.145	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.146	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.147	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.148	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.149	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.150	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.151	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.152	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.153	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
2.154	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378

Analyst : V Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R.Radhika.

Name	Part Number	Category Description	Description	Quantity	Failure Rate	N x Failure Rate	Percent Contribution
2.155	CC1206JRX7R8BB225	Capacitor	2.2uF 1206	1	0.829144763	0.829144763	0.009840175
2.156	CC1206JRX7R8BB225	Capacitor	2.2uF 1206	1	0.829144763	0.829144763	0.009840373
2.157	CC1206JRX7R8BB225	Capacitor	2.2uF 1206	1	0.829144763	0.829144763	0.009840378
2.158	CC1206JRX7R8BB225	Capacitor	2.2uF 1206	1	0.829144763	0.829144763	0.009840378
2.159	CC0603JRX7R9BB101	Capacitor	100pF 0603	1	0.151865424	0.151865424	0.001655828
2.160	CC0603JRX7R9BB101	Capacitor	100pF 0603	1	0.151865424	0.151865424	0.001655828
2.161	CC0603JRX7R9BB101	Capacitor	100pF 0603	1	0.151865424	0.151865424	0.001655828
2.162	CC0603JRX7R9BB101	Capacitor	100pF 0603	1	0.151865424	0.151865424	0.001655828
2.163	CC0603JRX7R9BB300	Capacitor	30pF 0603	1	0.151865424	0.151865424	0.001655828
2.164	CC0603JRX7R9BB300	Capacitor	30pF 0603	1	0.151865424	0.151865424	0.001655828
2.165	CC0603JRX7R9BB102	Capacitor	1000pF 0603	1	0.151865424	0.151865424	0.001655828
2.166	CC0603JRX7R9BB102	Capacitor	1000pF 0603	1	0.151865424	0.151865424	0.001655828
2.167	CC0603JRX7R9BB102	Capacitor	1000pF 0603	1	0.151865424	0.151865424	0.001655828
2.168	CC0603JRX7R9BB102	Capacitor	1000pF 0603	1	0.151865424	0.151865424	0.001655828
2.169	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.170	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.171	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.172	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.173	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.174	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.175	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655825

Analyst N.Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jamrudingam
Approved By R.Radhika.

No.	Part Number	Category Description	Description	Quantity	Failure Rate	New Failure Rate	Percent Contribution
2.176	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
2.177	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
2.178	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
2.179	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
2.180	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
2.181	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
2.182	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
2.183	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
2.184	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
2.185	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
2.186	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
2.187	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
2.188	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
2.189	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.190	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
2.191	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.192	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.193	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.194	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.195	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.196	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828

Analyst: A Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V.Jambulingam
Approved By: R.Radhika.

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Name	Part Number	Category Description	Description	Quantity	Failure Rate	N * Failure Rate	Percent Contribution
2.197	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.198	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.199	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.200	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.201	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.202	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.203	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.204	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.205	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.206	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.207	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
2.208	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
2.209	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
2.210	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
2.211	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.212	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.213	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.214	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
2.215	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.216	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
2.217	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828

Analyst : N Venkata Naga Aravind & Anupam Arora:
Compiled By: Shubham Kumar & V Jambulingam:
Approved By: R.Radhika:

Name	Part Number	Category Description	Description	Quantity	Failure Rate	Fit Failure Rate	Percent Composition
2.218	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.219	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.220	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.221	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.222	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
2.223	CC0603JRX7R6BB224	Capacitor	0.22uF 0603	1	0.151865424	0.151865424	0.001655828
2.224	CC0603JRX7R6BB224	Capacitor	0.22uF 0603	1	0.151865424	0.151865424	0.001655828
2.225	CC1206JRX7RCBB105	Capacitor	1uF 1206	1	0.189501088	0.189501088	0.002066179
2.226	CC1206JRX7RCBB105	Capacitor	1uF 1206	1	0.189501088	0.189501088	0.002066179
2.227	CC1206JRX7RCBB105	Capacitor	1uF 1206	1	0.189501088	0.189501088	0.002066179
2.228	CC1206JRX7RCBB105	Capacitor	1uF 1206	1	0.189501088	0.189501088	0.002066179
2.229	CC1206JRX7R6BB103	Capacitor	0.01uF 1206	1	0.115861413	0.115861413	0.001263267
2.230	CC1206JRX7R6BB103	Capacitor	0.01uF 1206	1	0.115861413	0.115861413	0.001263267
2.231	S32530470	Connector	Conn, B2C,TB, Male, 1×4, 2.0mm, DIP	1	1.44	1.44	0.015700689
2.232	S32531670	Connector	Conn, B2C,TB, Male, 1×6, 1.25mm, DIP	1	2.16	2.16	0.023551034
2.233	S32531670	Connector	Conn, B2C,TB, Male, 1×2, 1.25mm, SMD	1	0.72	0.72	0.007850345
2.234	S32531670	Connector	Conn, B2C,TB, Male, 1×3, 1.25mm, SMD	1	1.08	1.08	0.011775517
2.235	S32531670	Connector	Conn, B2C,TB, Male, 1×4, 1.25mm, SMD	1	1.44	1.44	0.015700689
2.236	S32531670	Connector	Conn, B2C,TB, Male, 1×16, 1.25mm, SMD	1	5.76	5.76	0.062802757
2.237	S32530270	Connector	Conn, B2C,TB, Male, 1×2, 2.0mm, DIP	1	0.72	0.72	0.007850345
2.238	S32530270	Connector	Conn, B2C,TB, Male, 1×2, 2.0mm, DIP	1	0.72	0.72	0.007850345

Analyst : N Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R Radhika.

Name	Part Number	Category Description	Description	Quantity	Failure Rate	N × Failure Rate	Percent Contribution
2.239	532530770	Connector	Conn, B2C,TB, Male, 1×7, 2.0mm., DIP	1	2.52	2.52	0.027476206
2.240	532530870	Connector	Conn, B2C,TB, Male, 1×8, 2.0mm, DIP	1	2.88	2.88	0.031401378
2.241	532530870	Connector	Conn, B2C,TB, Male, 1×8, 2.0mm, DIP	1	2.88	2.88	0.031401378
2.242	532530870	Connector	Conn, B2C,TB, Male, 1×8, 2.0mm, DIP	1	2.88	2.88	0.031401378
2.243		Connector	0.5mm FFC/FPC 30 PIN	1	10.8	10.8	0.117755169
2.244	BB545	Diode	TVS Surge Supressor	6	6.223409579	37.34045808	0.407132587
2.245	1N5819HW-7-F	Diode	TVS Surge Supressor	3	7.194507851	21.58352355	0.23533069
2.246	SSI4	Diode	Silicon ,General Purpose	13	1.474858352	19.17316858	0.209049863
2.247	2SC2412	Transistor	General Purpose Small Signal Amplifier	1	117.7418534	117.7418534	1.283769611
2.248	AO3401	Transistor	General Purpose Small Signal Amplifier	1	117.7418534	117.7418534	1.283769611
2.249	2SC2412	Transistor	General Purpose Small Signal Amplifier	1	117.7418534	117.7418534	1.283769611
2.250	2SC2412	Transistor	General Purpose Small Signal Amplifier	1	117.7418534	117.7418534	1.283769611
2.251	MMBTA55LT1	Transistor	Driver Transistors	1	472.4188442	472.4188442	5.150903764
2.252	SCS-80-18-30Q-CES-TR	Crystal	Crystal Oscillator 8.00 MHz	1	28.8	28.8	0.314013783
2.253	PT4115E	IC-Analog Device	LED Driver PT4115/2227C	2	10.8	21.6	0.235510337
2.254	PT4115E	IC-Analog Device	LED Driver PT4115/2227C	2	10.8	21.6	0.235510337
2.255	MP2359	IC-Analog Device	Step-Down Converter	1	10.8	10.8	0.117755169
2.256	MS3989	IC-Analog Device	Motor Driver MS3989	1	27	27	0.294387922
2.257	MAX4232EUA T	IC-Analog Device	RS 485	1	10.8	10.8	0.117755169
2.258	BA10393F	IC-Analog Device	SOP 8 IC	1	10.8	10.8	0.117755169
2.259	AT88SC0104C	IC-Analog Device	SOP 8 IC	1	62.01	62.01	0.676110926

Analyst : N.Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V.Jambulingam.
Approved By: R.Radhika

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Name	Part Number	Category Description	Description	Quantity	Failure Rate	N = Failure Rate	Percent Contribution
2.260	BA10358	IC-Analog Device	Integrated circuit	1	10.8	10.8	0.117755169
2.261	MP2359	IC-Analog Device	Step-Down Converter	1	10.8	10.8	0.117755169
2.262	74HC02D	IC-Digital Device	IC GATE NOR 4CH 2-INP 14SO	1	18.36	18.36	0.200183787
2.263	ATMEL4231	IC-Digital Device	IC ATMEL4231	1	18.36	18.36	0.200183787
2.264	ULN2003A	IC Digital Device	IC PWR RELAY 7NPN TR 16DIP	1	18.36	18.36	0.200183787
2.265	STM32F103RCT6	IC-Microprocessor	IC	1	278.37	278.37	3.035139471
2.266	MPL-AY3020-4R7	Inductor	Power Inductor, 4.7uH,20%,2A,SMD	1	2.16	2.16	0.023551034
2.267	B82477P4473M000	Inductor	Power Inductor, 47uH,20%,1.8A,SMD	1	2.16	2.16	0.023551034
2.268	B82477P4473M000	Inductor	Power Inductor, 47uH,20%,1.8A,SMD	1	2.16	2.16	0.023551034
2.269	B82477P4473M000	Inductor	Power Inductor, 47uH,20%,1.8A,SMD	1	2.16	2.16	0.023551034
2.270	B82477P4473M000	Inductor	Power Inductor, 47uH,20%,1.8A,SMD	1	2.16	2.16	0.023551034
3		Power Board				5613.112	61.2011996
3.1	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
3.2	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
3.3	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
3.4	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
3.5	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
3.6	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
3.7	RC0603DR-070R00L	Resistor	0Ω 0603	1	0.375872959	0.375872959	0.004098239
3.8	RC0603DR-071K0L	Resistor	1KΩ 0603	1	0.387237057	0.387237057	0.004166671
3.9	RC0603DR-071K0L	Resistor	1KΩ 0603	1	0.376361912	0.376361912	0.00410357

Analyst : N.Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R.Radhika

Name	Part Number	Category Description	Description	Quantity	Failure Rate	N x Failure Rate	Percent Contribution
3.10	RC0603DR-071K0L	Resistor	1KΩ 0603	1	0.377096534	0.377096534	0.00451158
3.11	RC0603DR-071K0L	Resistor	1KΩ 0603	1	0.376606627	0.376606627	0.004506239
3.12	RC0603DR-072K20L	Resistor	2.2KΩ 0603	1	0.379210406	0.379210406	0.004534623
3.13	RC0603DR-072K20L	Resistor	2.2KΩ 0603	1	0.377488918	0.377488918	0.004515858
3.14	RC0603DR-072K00L	Resistor	2KΩ 0603	1	0.391584454	0.391584454	0.004269646
3.15	RC0603DR-073K00L	Resistor	3KΩ 0603	1	0.392348789	0.392348789	0.004277979
3.16	RC0603DR-074K7QL	Resistor	4.7KΩ 0603	1	0.402216048	0.402216048	0.004384659
3.17	RC0603DR-073K3QL	Resistor	3.3KΩ 0603	1	0.400074673	0.400074673	0.004362317
3.18	RC0603DR-0710K0L	Resistor	10KΩ 0603	1	0.378570082	0.378570082	0.004127647
3.19	RC0603DR-074K70L	Resistor	4.7KΩ 0603	1	0.376949495	0.376949495	0.004109977
3.20	RC0603DR-074K70L	Resistor	4.7KΩ 0603	1	0.381187436	0.381187436	0.004156184
3.21	RC0603DR-074K70L	Resistor	4.7KΩ 0603	1	0.381187436	0.381187436	0.004156184
3.22	RC0603DR-0710K0L	Resistor	10KΩ 0603	1	0.379407647	0.379407647	0.004136779
3.23	RC0603DR-0712K0L	Resistor	12KΩ 0603	1	0.377488918	0.377488918	0.004115858
3.24	RC0603DR-0710K0L	Resistor	10KΩ 0603	1	0.376973697	0.376973697	0.004110244
3.25	RC0603DR-0710K0L	Resistor	10KΩ 0603	1	0.381286558	0.381286558	0.004157265
3.26	RC1206DR-0710K0L	Resistor	10KΩ 1206	1	0.382975574	0.382975574	0.004175687
3.27	RC0603DR-0727K0L	Resistor	27KΩ 0603	1	0.3847721	0.3847721	0.004193269
3.28	RC0603DR-0763K4L	Resistor	63.4KΩ 0603	1	0.386778126	0.386778126	0.00421/141
3.29	RC0603DR-0775R0L	Resistor	75Ω 0603	1	0.382279192	0.382279192	0.004168088
3.30	RC0603DR-0775R0L	Resistor	75Ω 0603	1	0.380939745	0.380939745	0.004153484

Analyst : N Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jamuna Rajan
Approved By: R.Radhika

Na...	Part Number	Category Description	Description	Quantity	Failure Rate	N x Failure Rate	Percent Contribution
3.31	RC0603DR-0775R0L	Resistor	75Ω 0603	1	0.380939745	0.380939745	0.004153484
3.32	RC1206DR-0775R0L	Resistor	75Ω 1206	1	0.378422468	0.378422468	0.004126037
3.33	RC1206DR-0775R0L	Resistor	75Ω 1206	1	0.378422468	0.378422468	0.004126037
3.34	RC1206DR-0775R0L	Resistor	75Ω 1206	1	0.378422468	0.378422468	0.004126037
3.35	RC1206DR-0775R0L	Resistor	75Ω 1206	1	0.378422468	0.378422468	0.004126037
3.36	RC1206DR-07100KL	Resistor	100KΩ 1206	1	0.393677172	0.393677172	0.004292363
3.37	RC1206DR-07100KL	Resistor	100KΩ 1206	1	0.393677172	0.393677172	0.004292363
3.38	RC0603DR-07100KL	Resistor	100KΩ 0603	1	0.392348789	0.392348789	0.004277879
3.39	RC0603DR-07120KL	Resistor	120KΩ 0603	1	0.379901107	0.379901107	0.00414215
3.40	RC0603DR-07150RL	Resistor	150Ω 0603	1	0.376459779	0.376459779	0.004104637
3.41	RC1206DR-071K20L	Resistor	1.2KΩ 1206	1	0.391635364	0.391635364	0.004270101
3.42	RC0603DR-0716K2L	Resistor	16.2KΩ 0603	1	0.392859174	0.392859174	0.004283444
3.43	RC0603DR-079K53L	Resistor	9.53KΩ 0603	1	0.382776479	0.382776479	0.00417351
3.44	RC0603DR-0749K9L	Resistor	49.9KΩ 0603	1	0.410079569	0.410079569	0.004471203
3.45	RC0603DR-07470RL	Resistor	470Ω 0603	1	0.378520871	0.378520871	0.0041271
3.46	RC0603DR-07470RL	Resistor	470Ω 0603	1	0.3797037	0.3797037	0.004140007
3.47	RC0603DR-07470RL	Resistor	470Ω 0603	1	0.376807513	0.376807513	0.004108374
3.48	REF1220681M050	Capacitor	680uF DIP	1	12.86730613	12.86730613	0.140295537
3.49	REF1225222MM16	Capacitor	2200uF DIP	1	24.59860381	24.59860381	0.268204883
3.50	REF0612220M100	Capacitor	22uF DIP	1	5.262088981	5.262088981	0.057377161
3.51	REF1020102M016	Capacitor	1000uF DIP	1	24.59860381	24.59860381	0.268204883

Analyst: N Venkata Naga Aravind & Anubam Anand;
Compiled By: Shubham Kumar & V Jambulingam.
Approved By: R.Radhika;

Name	Part Number	Category Description	Description	Quantity	Failure Rate	N * Failure Rate	Percent Contribution
3.57	REF102012C2MO16	Capacitor	1000uF DIP	1	24.598660481	24.598660381	0.268204883
3.58	CC0603JRX7R5BB104	Capacitor	10uF 0603	1	0.174582038	0.174582038	0.001903513
3.59	CC0603JRX7R6BB106	Capacitor	10uF 0603	1	0.448269567	0.448269567	0.004887556
3.55	CC0603JRX7R9BB150	Capacitor	15pF 0603	1	0.151865428	0.151865428	0.001655828
3.56	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
3.57	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
3.58	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
3.59	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.26306332	0.26306332	0.002868247
3.60	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.26306332	0.26306332	0.002868247
3.61	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.26306332	0.26306332	0.002868247
3.62	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
3.63	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.26306332	0.26306332	0.002868247
3.64	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.199057706	0.199057706	0.002170377
3.65	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
3.66	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
3.67	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
3.68	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
3.69	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
3.70	CC1206JRX7R8BB226	Capacitor	22uF 1206	1	0.829144763	0.829144763	0.009040378
3.71	CC0603JRX7R0BB102	Capacitor	1000pF 0603	1	0.309944969	0.309944969	0.003379409
3.72	CC1206JRX7R7BB103	Capacitor	0.01uF 1206	1	0.115861413	0.115861413	0.001263267

Analyst : N.Venkata Naga Aravind & Anupam Anand
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Approved By: R.Radhika.

Name	Part Number	Category Description	Description	Quantity	Failure Rate	Normalized Rate	Percent Contribution
3.73	CC1206JRX7R7BB103	Capacitor	0.01uF 1206	1	0.115861413	0.115861413	0.001263267
3.74	CC1206JRX7R7BB103	Capacitor	0.01uF 1206	1	0.115861413	0.115861413	0.001263267
3.75	CC1206JRX7R7BB103	Capacitor	0.01uF 1206	1	0.115861413	0.115861413	0.001263267
3.76	CC1206JRX7R7BB103	Capacitor	0.01uF 1206	1	0.115861413	0.115861413	0.001263267
3.77	CC1206JRX7R7BB103	Capacitor	0.01uF 1206	1	0.115861413	0.115861413	0.001263267
3.78	CC1206JRX7R7BB103	Capacitor	0.01uF 1206	1	0.115861413	0.115861413	0.001263267
3.79	CC1206JRX7R7BB103	Capacitor	0.01uF 1206	1	0.115861413	0.115861413	0.001263267
3.80	CC0603JRX7R9BB103	Capacitor	0.01uF 0603	1	0.309944969	0.309944969	0.003379409
3.81	CC0603JRX7R9BB103	Capacitor	0.01uF 0603	1	0.309944969	0.309944969	0.003379409
3.82	CC0603JRX7R9BB103	Capacitor	0.01uF 0603	1	0.174582038	0.174582038	0.001903513
3.83	CC0603JRX7R9BA104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
3.84	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
3.85	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
3.86	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
3.87	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
3.88	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
3.89	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
3.90	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.174582038	0.174582038	0.001903513
3.91	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.174582038	0.174582038	0.001903513
3.92	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.151865424	0.151865424	0.001655828
3.93	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.174582038	0.174582038	0.001903513

Analyst : N.Venkata Naga Aravind & Anupam Anand
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Name	Part Number	Category Description	Description	Quantity	Failure Rate	N * Failure Rate	Percent Contribution
3.94	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.174582038	0.174582038	0.001903513
3.95	CC0603JRX7R9BB105	Capacitor	1uF 0603	1	0.174582038	0.174582038	0.001903513
3.96	CC0603JRX7R9BB105	Capacitor	1uF 0603	1	0.309944969	0.309944969	0.003379409
3.97	CC0603JRX7R9BB105	Capacitor	1uF 0603	1	0.174582038	0.174582038	0.001903513
3.98	CC1206JRX7R9BB105	Capacitor	1uF 1206	1	0.309944969	0.309944969	0.003379409
3.99	CC0603JRX7R9BB221	Capacitor	220pF 0603	1	0.309944969	0.309944969	0.003379409
3.100	CC0603JRX7R9BB224	Capacitor	0.22uF 0603	1	0.309944969	0.309944969	0.003379409
3.101	CC0603JRX7R8BB225	Capacitor	2.2uF 0603	1	0.26306332	0.26306332	0.002868247
3.102	CC1206JRX7R9BB225	Capacitor	2.2uF 1206	1	0.309944969	0.309944969	0.003379409
3.103	CC1206JRX7R9BB225	Capacitor	2.2uF 1206	1	0.309944969	0.309944969	0.003379409
3.104	CC1206JRX7R9BB225	Capacitor	2.2uF 1206	1	0.309944969	0.309944969	0.003379409
3.105	CC1206JRX7R9BB225	Capacitor	2.2uF 1206	1	0.309944969	0.309944969	0.003379409
3.106	CC1206JRX7R9BB225	Capacitor	2.2uF 1206	1	0.309944969	0.309944969	0.003379409
3.107	CC0603JRX7R7BB475	Capacitor	4.7uF 0603	1	0.269891429	0.269891429	0.002942605
3.108	CC0603JRX7R9BB821	Capacitor	820pF 0603	1	0.125762444	0.125762444	0.00137122
3.109	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
3.110	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
3.111	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
3.112	CC0603JRX7R9BB104	Capacitor	0.1uF 0603	1	0.309944969	0.309944969	0.003379409
3.113	532530670	Connector	Conn, B2C,TB, Male, 1x6, 2.0mm, DIP	2	2.16	4.32	0.047102067
3.114	532530470	Connector	Conn, B2C,TB, Male, 1x4, 2.0mm, DIP	1	1.44	1.44	0.015700689

Analysis: N Venkata Naga Aravind & Anupam Anand
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Name	Part Number	Category Description	Description	Quantity	Failure Rate	Failure Rate	Percent Contribution
3.115	532530870	Connector	Conn, B2C,TB, Male, 1×8, 2.0mm, D P	1	2.88	2.88	0.031401378
3.116	1744057 3	Connector	Conn, B2C,TB, Male, 1×3, 3.96mm, DIP	1	1.08	1.08	0.011775517
3.117	532530270	Connector	Conn, B2C,TB, Male, 1×2, 2.0mm, DIP	1	0.72	0.72	0.007850345
3.118	532530870	Connector	Conn, B2C,TB, Male, 1×8, 2.0mm, D P	1	2.88	2.88	0.031401378
3.119	532531670	Connector	Conn, B2C,TB, Male, 1×16 1.25mm, SMD	1	5.76	5.76	0.062802757
3.120	B8545	Diode	TVS Surge Supressor	4	6.223409879	24.89363872	0.271421725
3.121	SMBJ58(C)A	Diode	TVS Surge Supressor	3	5.632933962	16.89880189	0.184251969
3.122	SS31C-HF	Diode	Silicon ,General Purpose	1	8.933255453	8.933255453	0.097401574
3.123	1N5819HW	Diode	Voltage Regulator	1	2.750723758	2.750723758	0.029991846
3.124	BZT52C5V6	Diode	Voltage Regulator	1	3.664323457	3.664323457	0.039953058
3.125	BZT52C5V6	Diode	Voltage Regulator	1	3.664323457	3.664323457	0.039953058
3.126	V1CP10	Diode	Voltage Regulator	1	3.942693273	3.942693273	0.042988196
3.127	V1CP10	Diode	Voltage Regulator	1	3.942693273	3.942693273	0.042988196
3.128	5.0SMDJ58CA	Diode	TVS Surge Supressor	3	5.412648826	16.23794448	0.177046477
3.129	TL431	Diode	Voltage Regulator	1	5.012145474	5.012145474	0.054648707
3.130	KBL210	Diode	Silicon ,General Purpose	1	2.541010795	2.541010795	0.027705252
3.131	V8S10	Diode	Silicon ,General Purpose	1	2.299201647	2.299201647	0.025058785
3.132	EL3H7	Diode	Voltage Regulator	4	3.942693273	15.77077309	0.171952782
3.133	1N4007W	Diode	Silicon ,General Purpose	5	8.389219553	41.94609996	0.457349081
3.134	TSD2011D05V100	Diode	TVS Surge Supressor	4	5.4225595	21.690238	0.236494225

Analyst: N Venkata Naga Aravind & Anupam Anand
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Name	Part Number	Category Description	Description	Quantity	Failure Rate	N × Failure Rate	Percent Contribution
3.135	KTA1137A	IC-Analog Device	KTA1137A PoE PD with Integrated DC DC Controller	1	10.8	10.8	0.117755169
3.136	MP52359	IC-Analog Device	MP52359	1	10.8	10.8	0.117755169
3.137	AMS1117	IC-Analog Device	AMS1117 VOLTAGE RAGULCR	1	10.8	10.8	0.117755169
3.138	IC MS1681 J0G5	IC-Analog Device	IC MS1681 J0G5	1	10.8	10.8	0.117755169
3.139	SG75	Miscellaneous Devices	GDT	1	4.41	4.41	0.048083361
3.140	JK30 500	Miscellaneous Devices	JK30 600 Resettable Fuse PTC 30V Series	1	3.6	3.6	0.039251723
3.141	10DB20K	Miscellaneous Devices	10D 820K MOV	4	450	1800	19.62586143
3.142	SG75	Miscellaneous Devices	GDT 75V 2KA 2 PCLE SURFACE MOUNT	1	4.41	4.41	0.048083361
3.143	SH14s	Miscellaneous Devices	GDT	9	4.41	39.69	0.432750245
3.144		Miscellaneous Devices	Power Supply 24V, 3A	1	1125	1125	12.2661639
3.145		Miscellaneous Devices	Heater fan Sink 40 mm Dia	1	1350	1350	14.71939608
3.146		Miscellaneous Devices	Step Motor(4PIN Motor)	2	234	468	5.102723973
3.147	MPL-AY3020-4R7	Inductor	Power inductor, 4.7um,20%,2A,SMD	1	2.16	2.16	0.023551034
3.148	MPL-AY3020-4R7	Inductor	Power inductor, 4.7uH,20%,2A,SMD	1	2.16	2.16	0.023551034
3.149	SC-15-10J	Inductor	Common mode Choke,1mH,DIP	1	2.16	2.16	0.023551034
3.150	8113-RC	Inductor	Common mode Choke,5mH,DIP	1	2.16	2.16	0.023551034
3.151	TRC1102NL	Transformer	RF-TF TRC1102NL	1	88.2	88.2	0.96166721
3.152	CFD208753	Transformer	Power inductor, 4.7uH,20%,2A,SMD	1	88.2	88.2	0.96166721
3.153	FD9075N15A	Transistor	MOSFET	2	117.7418534	235.4837069	2.567539223

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Name	Part Number	Category Description	Description	Quantity	Failure Rate	Normalized Rate	Percentage Contribution
3.154		Switch	Push Switch With Rated Current 50 milliamps and Contact current 1 milliamps	1	9.596124	9.596124	0.104629
3.155	HRB1-S-DC12V	Relay	DP 12 VOLT RELAY (HRB1-S-DC12V)	1	20.42040128	20.42040128	0.22264887
4		Sensor Board				168.7547811	1.839976633
4.1	RC0402JR-070RL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
4.2	RC0402JR-070RL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
4.3	RC0402JR-070RL	Resistor	0Ω 0402	1	0.375872959	0.375872959	0.004098239
4.4	RC0805JR-070RL	Resistor	0Ω 0805	1	0.375872959	0.375872959	0.004098239
4.5	RC0805JR-070RL	Resistor	0Ω 0805	1	0.375872959	0.375872959	0.004098239
4.6	RC0402DR-07330RL	Resistor	330Ω 0402	1	0.376401056	0.376401056	0.004103997
4.7	RC0402DR-07330RL	Resistor	330Ω 0402	1	0.376401056	0.376401056	0.004103997
4.8	RC0402DR-0710KL	Resistor	10KΩ 0402	1	0.376718269	0.376718269	0.004107453
4.9	RC0402DR-0751KL	Resistor	51KΩ 0402	1	0.377541921	0.377541921	0.004116435
4.10	RC0402DR-0751KL	Resistor	51KΩ 0402	1	0.377541921	0.377541921	0.004116435
4.11	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.377683299	0.377683299	0.004117978
4.12	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.377683299	0.377683299	0.004117978
4.13	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.377683299	0.377683299	0.004117978
4.14	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.377683299	0.377683299	0.004117978
4.15	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.377683299	0.377683299	0.004117978
4.16	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.377683299	0.377683299	0.004117978
4.17	RC0402DR-074K7L	Resistor	4.7KΩ 0402	1	0.377683299	0.377683299	0.004117978

Name	Part Number	Category Description	Description	Quantity	Failure Rate	N * Failure Rate	Percent Contribution
4.18	CC0603KRX5R6BB106	Capacitor	10uF 10V 0603	1	0.189501088	0.189501088	0.002066179
4.19	CC0603KRX5R6BB106	Capacitor	10uF 25V 0603	1	0.186418615	0.186418615	0.00203257
4.20	CC0603KRX5R6BB106	Capacitor	10uF 25V 0603	1	0.186418615	0.186418615	0.00203257
4.21	CC0603KRX5R6BB106	Capacitor	10uF 10V 0603	1	0.189501088	0.189501088	0.002066179
4.22	CC0603KRX5R6BB106	Capacitor	10uF 25V 0603	1	0.186418615	0.186418615	0.00203257
4.23	CC0603KRX5R6BB106	Capacitor	10uF 25V 0603	1	0.199057706	0.199057706	0.002170377
4.24	CC0603KRX5R6BB106	Capacitor	10uF 25V 0603	1	0.186418615	0.186418615	0.00203257
4.25	CC0603KRX5R6BB106	Capacitor	10uF 25V 0603	1	0.186418615	0.186418615	0.00203257
4.26	CC0603KRX5R6BB106	Capacitor	10uF 25V 0603	1	0.26306332	0.26306332	0.002868247
4.27	CC0603KRX5R6BB106	Capacitor	10uF 25V 0603	1	0.26306332	0.26306332	0.002868247
4.28	CC0603KRX5R6BB106	Capacitor	10uF 25V 0603	1	0.199057706	0.199057706	0.002170377
4.29	CC0603KRX5R6BB106	Capacitor	10uF 25V 0603	1	0.26306332	0.26306332	0.002868247
4.30	CC0603KRX5R6BB106	Capacitor	10uF 25V 0603	1	0.26306332	0.26306332	0.002868247
4.31	CC0402JRX7R8BB104	Capacitor	0.1uF 25V 0402	1	0.186418615	0.186418615	0.00203257
4.32	CC0402JRX7R8BB104	Capacitor	0.1uF 25V 0402	1	0.186418615	0.186418615	0.00203257
4.33	CC0402JRX7R8BB104	Capacitor	0.1uF 25V 0402	1	0.186418615	0.186418615	0.00203257
4.34	CC0402JRX7R8BB104	Capacitor	0.1uF 25V 0402	1	0.186418615	0.186418615	0.00203257
4.35	CC0402JRX7R8BB104	Capacitor	0.1uF 10V 0402	1	0.189501088	0.189501088	0.002066179
4.36	CC0402JRX7R8BB104	Capacitor	0.1uF 10V 0402	1	0.189501088	0.189501088	0.002066179
4.37	CC0402JRX7R8BB104	Capacitor	0.1uF 10V 0402	1	0.189501088	0.189501088	0.002066179
4.38	CC0402JRX7R8BB104	Capacitor	0.1uF 10V 0402	1	0.189501088	0.189501088	0.002066179

Analysis : N.Venkata Naga Aravind & Anupam Anand
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Name	Part Number	Category Description	Description	Quantity	Resistance Rate	Net Resistance Rate	Percent Contribution
4.39	CC0402JRX7R6BB104	Capacitor	0.1uF 10V 0402	1	0.189501088	0.189501088	0.002066179
4.40	CC0402JRX7R6BB104	Capacitor	0.1uF 10V 0402	1	0.24235286	0.24235286	0.002642435
4.41	CC0402JRX7R6BB104	Capacitor	0.1uF 10V 0402	1	0.24235286	0.24235286	0.002642435
4.42	CC0402JRX7R6BB104	Capacitor	0.1uF 25V 0402	1	0.199057706	0.199057706	0.002170377
4.43	CC0402JRX7R6BB104	Capacitor	0.1uF 10V 0402	1	0.189501088	0.189501088	0.002066179
4.44	CC0402JRX7R6BB104	Capacitor	0.1uF 25V 0402	1	0.199057706	0.199057706	0.002170377
4.45	CC0402JRX7RX6B104	Capacitor	0.1uF 25V 0402	1	0.186418615	0.186418615	0.00203257
4.46	CC0402JRX7R6BB104	Capacitor	0.1uF 10V 0402	1	0.189501088	0.189501088	0.002066179
4.47	CC0402JRX7R6BB104	Capacitor	0.1uF 10V 0402	1	0.189501088	0.189501088	0.002066179
4.48	CC0402JRX7R6BB104	Capacitor	0.1uF 10V 0402	1	0.189501088	0.189501088	0.002066179
4.49	CC0402JRX7R6BB104	Capacitor	0.1uF 25V 0402	1	0.199057706	0.199057706	0.002170377
4.50	CC0402JRX7R8BB104	Capacitor	0.1uF 25V 0402	1	0.199057706	0.199057706	0.002170377
4.51	CC0402JRX7R6BB104	Capacitor	0.1uF 25V 0402	1	0.186418615	0.186418615	0.00203257
4.52	CC0402JRX7R8BB104	Capacitor	0.1uF 25V 0402	1	0.186418615	0.186418615	0.00203257
4.53	CC0402JRX7R8BB104	Capacitor	0.1uF 25V 0402	1	0.26306332	0.26306332	0.002868247
4.54	CC0402JRX7R8BB104	Capacitor	0.1uF 25V 0402	1	0.26306332	0.26306332	0.002868247
4.55	CC0402JRX7R8BB104	Capacitor	0.1uF 25V 0402	1	0.26306332	0.26306332	0.002868247
4.56	CC0402JRX7R8BB104	Capacitor	0.1uF 25V 0402	1	0.199057706	0.199057706	0.002170377
4.57	CC0402JRX7R9BB103	Capacitor	0.01uF 50V 0402	1	0.127841954	0.127841954	0.001393894
4.58	CC0402JRX7R9BB103	Capacitor	0.01uF 50V 0402	1	0.127841954	0.127841954	0.001393894
4.59	CC0402JRX7R9BB102	Capacitor	1000pF 50V 0402	1	0.127841954	0.127841954	0.001393894

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Name	Part Number	Category Description	Description	Quantity	Failure Rate	N * Failure Rate	Percent Contribution
4.60	CC0402JRX7R9BB102	Capacitor	1000pF 50V 0402	1	0.127841954	0.127841954	0.001393894
4.61	CC0402JRX7R9BB102	Capacitor	1000pF 50V 0402	1	0.127841954	0.127841954	0.001393894
4.62	CC0402JRX7R9BB102	Capacitor	1000pF 50V 0402	1	0.127841954	0.127841954	0.001393894
4.63	CC0402KRX5R7BB475	Capacitor	4.7uF 16V 0402	1	0.157573933	0.157573933	0.001718069
4.64	CC0402JRX7R9BB121	Capacitor	120pF 50V 0402	1	0.151865424	0.151865424	0.001656828
4.65	CC0402JRX7R9BB121	Capacitor	120pF 50V 0402	1	0.151865424	0.151865424	0.001656828
4.66	CC1206JRX7R9BB102	Capacitor	1000pF 2kV 1206	1	0.115861413	0.115861413	0.001263267
4.67	CC1206JRX7R9BB102	Capacitor	1000pF 2kV 1206	1	0.115861413	0.115861413	0.001263267
4.68	CC1206JRX7R9BB102	Capacitor	1000pF 2kV 1206	1	0.115861413	0.115861413	0.001263267
4.69		Connector	0.5mm 36 Pin SMD Mount FPC	1	12.96	12.96	0.141306202
4.70		Connector	0.5mm 24 Pin SMD Mount FPC	1	8.64	8.64	0.094204135
4.71	S30108207309	Crystal	24MHz,SMD 3.2*2.5mm,20pF,±20PPM	1	27.9	27.9	0.304200852
4.72	TLV70218DBVR	IC-Analog Device	300 mA, Low-Dropout Regulator	1	10.8	10.8	0.117755169
4.73	TLV70212DBVR	IC-Analog Device	300-mA, Low-Dropout Regulator	1	10.8	10.8	0.117755169
4.74	TLV70225DBVR	IC-Analog Device	300-mA, Low-Dropout Regulator	1	10.8	10.8	0.117755169
4.75	MS41929	IC-Digital Device	Two Channel low voltage Motor Driver	1	32.13	32.13	0.350321627
4.76	IMX335	IC-Digital Device	CMOS Solic state Image Sensor	1	38.7	38.7	0.421956021

Analyst : N.Venkata Naga Aravind & Anupam Anand.
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Annexure- III

Telcordia SR-332

PI FACTORS REPORT

(Temperature 40℃)

EFKON INDIA PVT. LTD.

TELCORDIA SR-332 PI-FACTORS REPORT

Name: SS-EN212-P(I)
Failure Rate (in FITS): 9171.677938
MTBF: 109032.5635

Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
1		Main Board			
1.1	RC0402DR-0754K9L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5255321093074083, Environment Factor = 1.5	1
1.2	RC0402DR-0733K2L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5249859893796148, Environment Factor = 1.5	1
1.3	RC0402DR-071KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5231327620494B5, Environment Factor = 1.5	1
	RC0402DR-071KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5231327620494B5, Environment Factor = 1.5	1
	RC0402DR-071KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5275033832016B5, Environment Factor = 1.5	1
1.6	RC0402DR-071KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5281895835334?3, Environment Factor = 1.5	1
1.7	RC0402DR-071KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5281895835334?3, Environment Factor = 1.5	1
1.8	RC0402DR-071KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5281895835334?3, Environment Factor = 1.5	1
1.9	RC0402DR-071KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5281895835334?3, Environment Factor = 1.5	1

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Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
1.10	RC0402DR-071KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5281895835334425, Environment Factor =1.5	1
1.11	RC0402DR-0725K5L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5221326524066122, Environment Factor =1.5	1
1.12	RC0402DR-0720KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5228757782322B4, Environment Factor =1.5	1
1.13	RC0402DR-0710KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5226857374177297, Environment Factor =1.5	1
1.14	RC0402DR-0710KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5226857374177297, Environment Factor =1.5	1
	RC0402DR-0710KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5224368310311101, Environment Factor =1.5	1
1.16	RC0402DR-0710KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5224368310311101, Environment Factor =1.5	1
1.17	RC0402DR-0710KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5224368310311101, Environment Factor =1.5	1
1.18	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5232296133500675, Environment Factor =1.5	1
1.19	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5232296133500675, Environment Factor =1.5	1
1.20	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5232296133500675, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
1.21	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5255758291640389, Environment Factor = 1.5	1
1.22	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5232295133506875, Environment Factor = 1.5	1
1.23	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5272520529741222, Environment Factor = 1.5	1
1.24	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5255920387775171, Environment Factor = 1.5	1
1.25	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5255920387775171, Environment Factor = 1.5	1
1.26	RC02C1JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor = 1.5	1
1.27	RC02C1JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor = 1.5	1
1.28	RC0201JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor = 1.5	1
1.29	RC0201JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor = 1.5	1
1.30	RC0201JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor = 1.5	1
1.31	RC0201JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor = 1.5	1

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Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
1.37	RC0201JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1
1.33	RC0201JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1
1.34	RC0201JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1
1.35	RC0201JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1
1.36	RC0201JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1
	RC0201JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1
	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1
1.39	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1
1.40	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1
1.41	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1
1.42	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	PI Factors All	Quantity
1.43	RC0402JR-07ORL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1
1.44	RC0402JR-07ORL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1
1.45	RC0402JR-07ORL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1
1.46	RC0402JR-07ORL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1
1.47	RC0402JR-07ORL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1
1.48	RC0402JR-07ORL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1
1.49	RC0402JR-07ORL	Resistor	FILM (Carbon Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1
1.50	RC0402JR-07ORL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1
1.51	RC0402JR-07ORL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1
1.52	RC0402JR-07ORL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1
1.53	RC0402JR-07ORL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
1.54	RC0402JR-070R	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor =1.5	1
1.55	RC0402JR-070R	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor =1.5	1
1.56	RC0402JR-070R	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor =1.5	1
1.57	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor =1.5	1
1.58	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor =1.5	1
1.59	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor =1.5	1
	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor =1.5	1
1.61	RC0402D9-0722RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5464896009502 1, Environment Factor =1.5	1
1.62	RC0402DR-0722RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5464896009502 1, Environment Factor =1.5	1
1.63	RC0402DR-0722RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5464896009502 1, Environment Factor =1.5	1
1.64	RC0402DR-0722RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5464896009502 1, Environment Factor =1.5	1

Analyst: N Venkata Naga Aravind & Anupam Anand
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Name	Part Number	Category Description	Device Type	Failure Rate All	Quantity
1.65	RC0402DR-0722RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.54648960095021, Environment Factor = 1.5	1
1.66	RC0402DR-0722RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.54648960095021, Environment Factor = 1.5	1
1.67	RC0402DR-0722RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.54648960095021, Environment Factor = 1.5	1
1.68	RC0402DR-0722RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.54648960095021, Environment Factor = 1.5	1
1.69	RC0402DR-0722RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.54648960095021, Environment Factor = 1.5	1
1.70	RC0402DR-0722RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.54648960095021, Environment Factor = 1.5	1
1.71	RC0402DR-0735RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5720457767610 16, Environment Factor = 1.5	1
1.72	RC0201DR-071KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5234048518255 61 Environment Factor = 1.5	1
1.73	RC0201DR-071KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5240039790 17526, Environment Factor = 1.5	1
1.74	RC0201DR-071KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5240039790 17526, Environment Factor = 1.5	1
1.75	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5266592099775 17, Environment Factor = 1.5	1

Analyst : N.Venkata Naga Aravind & Anupam Anand
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Approved By: R Radhika.

Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
1.76	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.526659209977517 Environment Factor =1.5	1
1.77	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.526659209977517 Environment Factor =1.5	1
1.78	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6 Temperature Factor = 1, Electrical Stress Factor = 0.526659209977517, Environment Factor =1.5	1
1.79	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.526659209977517, Environment Factor =1.5	1
1.80	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.526659209977517 Environment Factor =1.5	1
1.81	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.526659209977517, Environment Factor =1.5	1
1.82	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.526659209977517, Environment Factor =1.5	1
1.83	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.527174323767765, Environment Factor =1.5	1
1.84	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.527174323767788, Environment Factor =1.5	1
1.85	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.524549227235944, Environment Factor =1.5	1
1.86	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.524549227235944, Environment Factor =1.5	1

Analyst : N Venkata Naga Aravind & Anupam Anand
Compiled By : Shubham Kumar & V Lambulingam
Approved By : R.Radhika

Item	Part Number	Component Description	Device Type	Failure Rate Model	Quantity
1.87	RC0402DR-07442L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5245927723594, Environment Factor = 1.5	1
1.88	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5245927723594, Environment Factor = 1.5	1
1.89	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5238940998124233, Environment Factor = 1.5	1
1.90	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5238940998124233, Environment Factor = 1.5	1
1.91	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5238940998124233, Environment Factor = 1.5	1
1.92	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5238940998124233, Environment Factor = 1.5	1
1.93	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5238940998124233, Environment Factor = 1.5	1
1.94	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5238940998124233, Environment Factor = 1.5	1
1.95	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5238940998124233, Environment Factor = 1.5	1
1.96	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5238940998124233, Environment Factor = 1.5	1
1.97	RC0402DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5230239861750602, Environment Factor = 1.5	1

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Approved By: R.Radhika.

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Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
1.98	RC0402DR-07100K	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.523023961750602, Environment Factor =1.5	1
1.99	RC0402DR-071CCKL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1 Electrical Stress Factor = 0.523023961750602, Environment Factor =1.5	1
1.100	RC0402DR-071CCKL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1 Electrical Stress Factor = 0.523023961750602, Environment Factor =1.5	1
1.101	RC0402DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.523023961750602, Environment Factor =1.5	1
1.102	RC0402DR-07100K	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1 Electrical Stress Factor = 0.523023961750602 Environment Factor =1.5	1
1.103	RC0402DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.523023961750602, Environment Factor = 1.5	1
1.104	RC0402DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.525969527727264, Environment Factor = 1.5	1
1.105	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.193980042290892, Environment Factor =1.5	1
1.106	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
1.107	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
1.108	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.138504898536457, Environment Factor =1.5	1

Analyst: N.Venkata Naga Aravind & Anubam Anand
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Name	Part Number	Category Description	Device Type	PI Factors All	Quantity
1.109	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
1.110	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.145584296839625, Environment Factor =1.5	1
1.111	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
1.112	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
1.113	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.103980042230892, Environment Factor =1.5	1
1.114	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.145584296839625, Environment Factor =1.5	1
1.115	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.145584296839625, Environment Factor =1.5	1
1.116	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.145584296839625, Environment Factor =1.5	1
1.117	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
1.118	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
1.119	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1

Analyst : N.Venkata Naga Aravind & Anupam Anand
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Approved By R Rajnika

Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
1.120	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.14921008494972S, Environment Factor =1.5	1
1.121	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.14921008494972S, Environment Factor =1.5	1
1.122	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.154185323611395, Environment Factor =1.5	1
1.123	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.14921008494972S, Environment Factor =1.5	1
1.124	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.145584296899625, Environment Factor =1.5	1
1.125	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.145584296899625, Environment Factor =1.5	1
1.126	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.145584296899625, Environment Factor =1.5	1
1.127	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.145584296899625, Environment Factor =1.5	1
1.128	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.145584296899625, Environment Factor =1.5	1
1.129	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.145584296899625, Environment Factor =1.5	1
1.130	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.145584296899625, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	PI Factors all	Quantity
1.131	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1687393605178 95, Environment Factor =1.5	1
1.132	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.193980042290892, Environment Factor =1.5	1
1.133	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
1.134	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
1.135	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
1.136	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
1.137	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
1.138	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
1.139	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.193980042290892, Environment Factor =1.5	1
1.140	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
1.141	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.193980042290892, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
1.142	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.193980042290892, Environment Factor =1.5	1
1.143	CC0603KRX5R5BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.151677306259232, Environment Factor =1.5	1
1.144	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.221175229051755, Environment Factor =1.5	1
1.145	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.221175229051755, Environment Factor =1.5	1
1.146	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.149210084949725, Environment Factor =1.5	1
1.147	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.149210084949725, Environment Factor =1.5	1
	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.221175229051755, Environment Factor =1.5	1
1.149	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.292292577680859, Environment Factor =1.5	1
1.150	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.221175229051755, Environment Factor =1.5	1
1.151	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.292292577680859, Environment Factor =1.5	1
1.152	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.292292577680859, Environment Factor =1.5	1

Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
1.153	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.16463901329838, Environment Factor =1.5	1
1.154	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.16463901329838, Environment Factor =1.5	1
1.155	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.22117522905175, Environment Factor =1.5	1
1.156	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.16463901329838, Environment Factor =1.5	1
1.157	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.292292577680859, Environment Factor =1.5	1
1.158	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.292292577680859, Environment Factor =1.5	1
1.159	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.22117522905175, Environment Factor =1.5	1
1.160	CC0603KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.22117522905175, Environment Factor =1.5	1
1.161	CC0402KRX5R9BB224	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.16873036517895, Environment Factor =1.5	1
1.162	CC0402KRX5R9BB224	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.13690022442966, Environment Factor =1.5	1
1.163	CC0402KRX5R9BB224	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.13690022442966, Environment Factor =1.5	1

Name	Part Number	Category Description	Device Type	PI Factors All	Quantity
1.164	CC0402KRX5R9BB224	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1455842968996?5, Environment Factor =1.5	1
1.165	CC0402KRX5R9BB224	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1455842968996?5, Environment Factor =1.5	1
1.166	CC0402KRX5R9BB224	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1455842968996?5, Environment Factor =1.5	1
1.167	CC0402KRX5R9BB224	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1369C0577442966, Environment Factor =1.5	1
1.168	CC0402KRX5R9BB224	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1369CC622442966, Environment Factor =1.5	1
1.169	CC0402KRX5R9BB224	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1597399505178?5, Environment Factor =1.5	1
	CC0402KRX5R9BB224	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1385948985964?7, Environment Factor =1.5	1
1.171	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1613609535938?9, Environment Factor =1.5	1
1.172	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1455842968996?5, Environment Factor =1.5	1
1.173	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1455842968996?5, Environment Factor =1.5	1
1.174	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1455842968996?5, Environment Factor =1.5	1

Name	Part Number	Category Description	Device Type	PI Factors All	Quantity
1.175	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1455842968995 25, Environment Factor =1.5	1
1.176	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1455842968995 25, Environment Factor =1.5	1
1.177	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1455842968996 25, Environment Factor =1.5	1
1.178	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1455842968996 25, Environment Factor =1.5	1
1.179	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1455842968996 25, Environment Factor =1.5	1
1.180	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1619609535938 39, Environment Factor =1.5	1
1.181	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1455842968996 25, Environment Factor =1.5	1
1.182	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1455842968996 25, Environment Factor =1.5	1
1.183	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1455842968995 25, Environment Factor =1.5	1
1.184	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1619609535938 39, Environment Factor =1.5	1
1.185	CC0402KRX5R9BB475	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1619609535938 39, Environment Factor =1.5	1

Analyst: N.Venkata Naga Aravind & Anupam Anand
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Approved By: R.Radhika

Name	Part Number	Category Description	Device Type	PI Factors All	Quantity
1.186	CC04C2<RX5R8BB22>	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1492100849497 25, Environment Factor =1.5	1
1.187	CC0402KRX5R8BB775	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.172941827198 55, Environment Factor =1.5	1
1.188	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.221175229051755, Environment Factor =1.5	1
1.189	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.172941827198 55, Environment Factor =1.5	1
1.190	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.172941827198 55, Environment Factor =1.5	1
1.191	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.172941827198 55, Environment Factor =1.5	1
1.192	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.221175229051755, Environment Factor =1.5	1
1.193	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.172941827198 55, Environment Factor =1.5	1
1.194	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.221175229051755, Environment Factor =1.5	1
1.195	CC04C2XRX5R8BB225	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.221175229051755, Environment Factor =1.5	1
1.196	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.149210084949725, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	FIT factors All	Quantity
1.197	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.221175220051755, Environment Factor =1.5	1
1.198	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.221175220051755, Environment Factor =1.5	1
1.199	CC0402KRX5R8BB225	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.14921008494972S, Environment Factor =1.5	1
1.200	CC0402JRX7R9BB121	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.14921008494972S, Environment Factor =1.5	1
1.201	CC0402JRX7R9BB121	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.14921008494972S, Environment Factor =1.5	1
1.202	CC0402JRX7R9BB121	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.16873936051789S, Environment Factor =1.5	1
1.203	CC0402JRX7R9BB121	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.16873936051789S, Environment Factor =1.5	1
1.204	CC0402JRX7R9BB101	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.16873936051789S, Environment Factor =1.5	1
1.205	CC0402JRX7R9BB101	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.16873936051789S, Environment Factor =1.5	1
1.206	CC0201JR7R7BB77	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.29987936555S732, Environment Factor =1.5	1
1.207	CC0201JR7R7BB78	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.175082147659908, Environment Factor =1.5	1

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Approved By: R.Radhika

Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
1.208	CC0201RX7R7BB79	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.175082147659908, Environment Factor =1.5	1
1.209	CC0201JRX7R7BB80	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.175082147659908, Environment Factor =1.5	1
1.210	CC0201JRX7R7BB81	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.175082147659908, Environment Factor =1.5	1
1.211	CC0201JRX7R7BB82	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.175082147659908, Environment Factor =1.5	1
1.212	CC0201JRX7R7BB83	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.175082147659908, Environment Factor =1.5	1
1.213	CC0201RX7R7BB84	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.175082147659908, Environment Factor =1.5	1
	CC0201JRX7R7BB85	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.175082147659908, Environment Factor =1.5	1
1.215	CC0201JRX7R7BB86	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.175082147659908, Environment Factor =1.5	1
1.216	CC0201JRX7R7BB87	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.175082147659908, Environment Factor =1.5	1
1.217	CC0201JRX7R7BB88	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.175082147659908, Environment Factor =1.5	1
1.218	CC0201JRX7R7BB89	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.175082147659908, Environment Factor =1.5	1

Name	Part Number	Category Description	Device Type	PI Factors All	Quantity
1.219	CC0201JRX7R7BB90	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.17508214765990B, Environment Factor =1.5	1
1.220	CC0201JRX7R7BB91	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.17508214765990B, Environment Factor =1.5	1
1.221	CC0201JRX7R7BB92	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.17508214765990B, Environment Factor =1.5	1
1.222	CC0201JRX7R7BB93	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.17508214765990B, Environment Factor =1.5	1
1.223	CC0201JRX7R7BB94	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.17508214765990B, Environment Factor =1.5	1
1.224	CC0201JRX7R7BB95	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.17508214765990B, Environment Factor =1.5	1
1.225	CC0201JRX7R7BB96	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.17508214765990B, Environment Factor =1.5	1
1.226	CC0201JRX7R7BB97	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.17508214765990B, Environment Factor =1.5	1
1.227	CC0201JRX7R7BB98	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.17508214765990B, Environment Factor =1.5	1
1.228	CC0201JRX7R7BB99	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.17508214765990B, Environment Factor =1.5	1
1.229	CC0201JRX7R7BB100	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.17508214765990B, Environment Factor =1.5	1

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Approved By R.Radhika

Name	Part Number	Category Description	Device Type	PI Factors All	Quantity
1.230	CC0201JRX7R7BB101	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.17508214765990 6, Environment Factor =1.5	1
1.231	CC0201JRX7R7BB102	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.17508214765990 8, Environment Factor =1.5	1
1.232	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.16973936051786 9, Environment Factor =1.5	1
1.233	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.13973604960772 9, Environment Factor =1.5	1
1.234	CC0402KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.15358042230892, Environment Factor =1.5	1
1.235	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.13690062244290 0, Environment Factor =1.5	1
	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.14921008494972 5, Environment Factor =1.5	1
1.237	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.14204661508 57, Environment Factor =1.5	1
1.238	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.14204661508 57, Environment Factor =1.5	1
1.239	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.15802532088964 8, Environment Factor =1.5	1
1.240	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.14204661508 57, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	PI Factors All	Quantity
1.241	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1420466150857, Environment Factor =1.5	1
1.242	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1369006224429668, Environment Factor =1.5	1
1.243	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1369006224429668, Environment Factor =1.5	1
1.244	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1369006224429668, Environment Factor =1.5	1
1.245	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1369006224429668, Environment Factor =1.5	1
1.246	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1369006224429668, Environment Factor =1.5	1
1.247	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1369006224429668, Environment Factor =1.5	1
1.248	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1369006224429668, Environment Factor =1.5	1
1.249	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1369006224429668, Environment Factor =1.5	1
1.250	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1369006224429668, Environment Factor =1.5	1
1.251	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1369006224429668, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
1.252	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.136900622442966, Environment Factor =1.5	1
1.253	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.136900622442966, Environment Factor =1.5	1
1.254	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.136900622442966, Environment Factor =1.5	1
1.255	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.136900622442966, Environment Factor =1.5	1
1.256	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.136900622442966, Environment Factor =1.5	1
1.257	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.136900622442966, Environment Factor =1.5	1
1.258	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.136900622442966, Environment Factor =1.5	1
1.259	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.136900622442966, Environment Factor =1.5	1
1.260	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.136900622442966, Environment Factor =1.5	1
1.261	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.136900622442966, Environment Factor =1.5	1
1.262	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.136900622442966, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	Parameters	Quantity
1.263	CC02C1KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.136900622442966, Environment Factor =1.5	1
1.264	CC02C1KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1420466150857, Environment Factor =1.5	1
1.265	CC02C1KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1420466150857, Environment Factor =1.5	1
1.266	CC02C1KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1420466150857, Environment Factor =1.5	1
1.267	CC02C1KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1420466150857, Environment Factor =1.5	1
1.268	CC02C1KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1420466150857, Environment Factor =1.5	1
1.269	CC02C1KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1420466150857, Environment Factor =1.5	1
1.270	CC02C1KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1420466150857, Environment Factor =1.5	1
1.271	CC02C1KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1420466150857, Environment Factor =1.5	1
1.272	CC02C1KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1420466150857, Environment Factor =1.5	1
1.273	CC02C1KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1420466150857, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
1.274	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.14204661508S7, Environment Factor =1.5	1
1.275	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.14204661508S7, Environment Factor =1.5	1
1.276	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.14204661508S7, Environment Factor =1.5	1
1.277	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.14204661508S7, Environment Factor =1.5	1
1.278	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.14204661508S7, Environment Factor =1.5	1
1.279	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.14204661508S7, Environment Factor =1.5	1
1.280	CC0201KRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.14204661508S7, Environment Factor =1.5	1
1.281	CC0805KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.145584296899575, Environment Factor =1.5	1
1.282	CC0805KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.155734811577577, Environment Factor =1.5	1
1.283	CC0805KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963S9, Environment Factor =1.5	1
1.284	CC0805KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963S9, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
1.285	CC0805KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963 49, Environment Factor =1.5	1
1.286	CC0805KRX5R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1455842968995625, Environment Factor =1.5	1
1.287	CC0805KRX5R8BB106	Connector	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2922925776860859, Environment Factor =1.5	1
1.288		Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.48, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.289		Connector	Multi-Pin	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.290		Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.96, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.291	532530470	Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.16, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.292	532530470	Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.16, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.293	830108207309	Crystal	CRYSTAL OSCILLATOR, Quartz Controlled	Mean Generic Steady State Failure rate = 3.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.294	FC-135 32.768DKA-A5	Crystal	CRYSTAL OSCILLATOR, Quartz Controlled	Mean Generic Steady State Failure rate = 3.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.295	TPS5622C1DDCH	IC-Analog Device	DC-DC	Mean Generic Steady State Failure rate = 2.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.296	TPS5627C1DDCR	IC-Analog Device	DC-DC	Mean Generic Steady State Failure rate = 2.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.297	TLV62569DBVR	IC-Analog Device	DC-DC	Mean Generic Steady State Failure rate = 2.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.298	TLV62569DBVR	IC-Analog Device	DC-DC	Mean Generic Steady State Failure rate = 2.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.299	TLV62569DBVR	IC-Analog Device	DC-DC	Mean Generic Steady State Failure rate = 2.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1

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Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
1.300	TLV70225DBVR	C-Analog Device	DC-DC	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.301	RT9078/N-08	C-Analog Device	DC DC	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.302	TLV62568DRLR	C-Analog Device	DC-DC	Mean Generic Steady State Failure rate = 2.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.303	Cv28s33m	IC-Microprocessor	Comp Meta Oxide Semicon	Mean Generic Steady State Failure rate = 57.3, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.304	ES8323S	IC-Digital Device	CMOS	Mean Generic Steady State Failure rate = 4, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.305	D483826 RMQR	IC-Digital Device	CMOS	Mean Generic Steady State Failure rate = 3.82, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.306	SN74AVCH2T45DCU	IC-Digital Device	CMOS	Mean Generic Steady State Failure rate = 2.72, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.307	MP8111TE-15	IC-Digital Device	CMOS	Mean Generic Steady State Failure rate = 2.7, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.308	14CA512M16LV-062C T:E	IC Memory	DRAM	Mean Generic Steady State Failure rate = 23.31, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.309	MX35LF1GE4AB	IC-Memory	ROM	Mean Generic Steady State Failure rate = 42.99, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.310	0415COMCCDS-2R2MC	Inductor	Power Filter	Mean Generic Steady State Failure rate = 0.24, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.311	0415COMCCDS-2R2MC	Inductor	Power Filter	Mean Generic Steady State Failure rate = 0.24, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.312	0415COMCCDS-2R2MC	Inductor	Power Filter	Mean Generic Steady State Failure rate = 0.24, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.313	SRR5228A-4R7Y	Inductor	Power Filter	Mean Generic Steady State Failure rate = 0.24, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.314	SRR5228A-4R7Y	Inductor	Power Filter	Mean Generic Steady State Failure rate = 0.24, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.315	0415COMCCDS-2R2MC	Inductor	Power Filter	Mean Generic Steady State Failure rate = 0.24, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
1.316	HR681686	Transformer	Pulse High Level (2 SV)	Mean Generic Steady State Failure rate = 9.8, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1

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Name	Part Number	Category Description	Device Type	Failure All	Quantity
1.317	BEP0640SC	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 2.55, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.3053229537029778, Environment Factor =1.5	1
1.318	SMBJ15CA	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 2.55, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2401665196080635, Environment Factor =1.5	1
1.319	RB521s30t1	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 13, Quality Factor = 6, Temperature Factor = 1, electrical Stress Factor = 0.2134861808887605, Environment Factor =1.5	1
1.320	PESD0402A505	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 2.55, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2347404132 1557, Environment Factor =1.5	1
1.321	LC03I	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 2.55, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2357721024081 72, Environment Factor =1.5	1
1.322	LC03I	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 2.55, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2357721024081 72, Environment Factor =1.5	1
2		Control Board			
2.1	RC0603DR-071K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.6344479679 48228, environment Factor =1.5	1
2.2	RC0603DR-071K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.6344479679 48228, Environment Factor =1.5	1
2.3	RC0603DR-071K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.6344479679 48228, Environment Factor =1.5	1
2.4	RC0603DR-071K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.6344479679 48228, Environment Factor =1.5	1
2.5	RC0603DR-070R0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767 61016, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
2.6	RC0603DR-070RCCL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761C15, Environment Factor =1.5	1
2.7	RC0603DR-070RCCL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761C15, Environment Factor =1.5	1
2.8	RC0603DR-070RCCL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761C16, Environment Factor =1.5	1
2.9	RC0603DR-070RCCL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761C16, Environment Factor =1.5	1
2.10	RC0603DR-070RCCL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6 Temperature Factor = 1, Electrical Stress Factor = 0.522045776761C15 Environment Factor =1.5	1
2.11	RC0603DR-070RCCL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6 Temperature Factor = 1, Electrical Stress Factor = 0.522045776761C15, Environment Factor =1.5	1
2.12	RC0603DR-C70R0DL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761C16, Environment Factor =1.5	1
2.13	RC0603DR-C70R0DL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761C16, Environment Factor =1.5	1
2.14	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761C16, Environment Factor =1.5	1
2.15	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761C16, Environment Factor =1.5	1
2.16	RC0603DR-070R0GL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761C16 Environment Factor =1.5	1

Name	Part Number	Category Description	Device Type	PI Factors All	Quantity
2.17	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor = 1.5	1
2.18	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor = 1.5	1
2.19	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor = 1.5	1
2.20	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor = 1.5	1
2.21	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor = 1.5	1
2.22	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor = 1.5	1
2.23	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor = 1.5	1
2.24	RC0402JR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor = 1.5	1
2.25	RC0402JR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor = 1.5	1
2.26	RC0402JR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor = 1.5	1
2.27	RC0402JR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor = 1.5	1

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Approved By: R Radhika.

Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
2.28	RC0402JR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor =1.5	1
2.29	RC0402JR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor =1.5	1
2.30	RC0402JR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6 Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor =1.5	1
2.31	RC0402JR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor =1.5	1
2.32	RC0402DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6 Temperature Factor = 1, Electrical Stress Factor = 0.5256086261 19034, Environment Factor =1.5	1
2.33	RC0402DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5273936739081 41, Environment Factor =1.5	1
	RC0402DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6 Temperature Factor = 1, Electrical Stress Factor = 0.5262978351 33824, Environment Factor =1.5	1
2.35	RC0402DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5240039796219525, Environment Factor =1.5	1
2.36	RC0402DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5273936739081 41 Environment Factor =1.5	1
2.37	RC0402DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.525608626119034, Environment Factor =1.5	1
2.38	RC0402DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.525608626119034, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	Parameters All	Quantity
2.39	RC0402DR-0710KOL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5340056818C1941, Environment Factor =1.5	1
2.40	RC0402DR-0710KOL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5340056818C1944, Environment Factor =1.5	1
2.41	RC0402DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5340056818C1944, Environment Factor =1.5	1
2.42	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5433726035439A9, Environment Factor =1.5	1
2.43	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5433726035439A5, Environment Factor =1.5	1
2.44	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5294889409470?8, Environment Factor =1.5	1
2.45	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5294889409470?8, Environment Factor =1.5	1
2.46	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5361453389015?5, Environment Factor =1.5	1
2.47	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5294889409470?8, Environment Factor =1.5	1
2.48	RC0603DR-0710KOL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5309433228852?1, Environment Factor =1.5	1
2.49	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5433726035439C0, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
2.50	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.543372603543949, Environment Factor =1.5	1
2.51	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522901513637 37, Environment Factor =1.5	1
2.52	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.529488940947078, Environment Factor =1.5	1
2.53	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.529488940947078 Environment Factor =1.5	1
2.54	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6 Temperature Factor = 1, Electrical Stress Factor = 0.529488940947078, Environment Factor =1.5	1
	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.529488940947078, Environment Factor =1.5	1
	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.529488940947078, Environment Factor =1.5	1
2.57	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.529488940947078, Environment Factor =1.5	1
2.58	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08 Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.529488940947078, Environment Factor =1.5	1
2.59	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.525450126460345, Environment Factor =1.5	1
2.60	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.523609029531783, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	PI Factors All	Quantity
2.63	RC0603DR-0733R0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5294889409470?8, Environment Factor =1.5	1
2.62	RC0603DR-0710K0L	Resistor	FILM (Carbon Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5227248775007?5, Environment Factor = 1.5	1
2.63	RC0603DR-0736K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.524102765677?89, Environment Factor = 1.5	1
2.64	RC0603DR-0747K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.543231345031?3, Environment Factor =1.5	1
2.65	RC0603DR-0747K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.543231345031?3, Environment Factor =1.5	1
2.66	RC0603DR-0747K0L	Resistor	FILM (Carbon Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5236090295317?8, Environment Factor =1.5	1
2.67	RC0603DR-075K60L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.539781955932084?, Environment Factor =1.5	1
2.68	RC0603DR-075K60L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.539781955932084?, Environment Factor =1.5	1
2.69	RC0603DR-075K60L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.539781955932084?, Environment Factor =1.5	1
2.70	RC0603DR-075K60L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.539781955932084?, Environment Factor =1.5	1
2.71	RC0603DR-075K60L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.539781955932084?, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
2.72	RC0603DR-075K60L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.5353791988987541, Environment Factor = 1.5	1
2.73	RC0603DR-075K60L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.5353791988987541, Environment Factor = 1.5	1
2.74	RC0603DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5277853603579O2, Environment Factor = 1.5	1
2.75	RC0603DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5319105196147?, Environment Factor = 1.5	1
2.76	RC0603DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5319105196147?, Environment Factor = 1.5	1
	RC0603DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5319105196147?, Environment Factor = 1.5	1
	RC0603DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5277853603579O2, Environment Factor = 1.5	1
2.79	RC0603DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5231327620C9485, Environment Factor = 1.5	1
2.80	RC0603DR-0718K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5438672976048O1, Environment Factor = 1.5	1
2.81	RC0603DR-0720K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5929768022845O6, Environment Factor = 1.5	1
2.82	RC0603DR-072K20L	Resistor	FILM (Carbon, Oxide, Meta.)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.526475793868b72, Environment Factor = 1.5	1

Analyst : N Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R.Radhika

Name	Part Number	Category Description	Device Type	PI Factors All	Quantity
2.83	RC0603DR-072K2OL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.526475753868671, Environment Factor =1.5	1
2.84	RC0603DR-0730KOL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.525313527186141, Environment Factor =1.5	1
2.85	RC0603DR-0730K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.525313527186141, Environment Factor =1.5	1
2.86	RC0603DR-0730K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.523677103130315, Environment Factor =1.5	1
2.87	RC0603DR-0730K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.523677103130315 Environment Factor =1.5	1
2.88	RC0603DR-0730K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.524515132644 26, Environment Factor =1.5	1
2.89	RC0603DR-0730K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.524515132644 26, Environment Factor =1.5	1
2.90	RC0603DR-0730K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.523813276878040, Environment Factor =1.5	1
2.91	RC0603DR-0733K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.523540964787759, Environment Factor =1.5	-
2.92	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522840412554795, Environment Factor =1.5	1
2.93	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522840412554795, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	Pi Factors A0	Quantity
2.94	RL0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.537960576 15989, Environment Factor =1.5	1
2.95	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.537960576 16988, Environment Factor =1.5	1
2.96	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.537960576 16988, Environment Factor =1.5	1
2.97	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.537960576 16988 Environment Factor =1.5	1
2.98	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.537960576 16988, Environment Factor =1.5	1
2.99	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6 Temperature Factor = 1, Electrical Stress Factor = 0.537960576 16988, Environment Factor =1.5	1
	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.537960576 16988, Environment Factor =1.5	1
2.101	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.537960576 16988, Environment Factor =1.5	1
2.102	RC0603DR-0751KOL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.523493324722114, Environment Factor =1.5	1
2.103	RC0603DR-0751KOL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.523493324722114 Environment Factor =1.5	1
2.104	RC0603DR-0751KOL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6 Temperature Factor = 1, Electrical Stress Factor = 0.523493324722114, Environment Factor =1.5	1

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Approved By: R Radhika

Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
2.105	RC0603DR-0751K0L	Resistor	FILM (Carbon, Oxide, Meta	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.523493324722114, Environment Factor =1.5	1
2.106	RC0603DR-0751K0L	Resistor	FILM (Carbon, Oxide, Meta	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.523493324722114, Environment Factor =1.5	1
2.107	RC0603DR-0751K0L	Resistor	FILM (Carbon, Oxide, Meta	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.523493324722114, Environment Factor =1.5	1
2.108	RC0603DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.523493324722114, Environment Factor =1.5	1
2.109	RC0603DR-076K2L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.523990359691107, Environment Factor =1.5	1
2.110	RC0603DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.523493324722114, Environment Factor =1.5	1
2.111	RC0603DR-0751K0L	Resistor	FILM (Carbon, Oxide, Meta	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.523493324722114, Environment Factor =1.5	1
2.112	RC0603DR-0751K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.523493324722114, Environment Factor =1.5	1
2.113	RC1206DR-071R0L	Resistor	FILM (Carbon, Oxide, Meta	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522724877590705, Environment Factor =1.5	1
2.114	RC1206DR-071R0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522724877590705, Environment Factor =1.5	1
2.115	RC1206DR-071R0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522724877590705, Environment Factor =1.5	1

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Approved By : R Radhika.

Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
2.116	RC1206DR-071R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522724877590705, Environment Factor = 1.5	1
2.117	RC1206DR-070R25L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522534640360538, Environment Factor = 1.5	1
2.118	RC1206DR-070R25L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522534640360538, Environment Factor = 1.5	1
2.119	RC1206DR-070R25L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522534640360538, Environment Factor = 1.5	1
2.120	RC1206DR-070R25L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522534640360538, Environment Factor = 1.5	1
2.121	CC0603KRX7R6BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.498077296572962, Environment Factor = 1.5	1
	CC0603KRX7R6BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.498077296572962, Environment Factor = 1.5	1
2.123	CC1206KRX7REBB105	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.221175229051755, Environment Factor = 1.5	1
2.124	CC1206KRX7RBBB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.221175229051755, Environment Factor = 1.5	1
2.125	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor = 1.5	1
2.126	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor = 1.5	1

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Name	Part Number	Category Description	Device Type	PI Factors All	Quantity
2.127	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963 49, Environment Factor =1.5	1
2.128	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963 49, Environment Factor =1.5	1
2.129	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963 49, Environment Factor =1.5	1
2.130	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963 49, Environment Factor =1.5	1
2.131	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963 49, Environment Factor =1.5	1
2.132	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963 49, Environment Factor =1.5	1
2.133	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963 49, Environment Factor =1.5	1
2.134	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963 49, Environment Factor =1.5	1
2.135	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963 49, Environment Factor =1.5	1
2.136	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963 49, Environment Factor =1.5	1
2.137	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963 49, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
2.138	CC1206JRX7R8BB225	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.221175229051755, Environment Factor =1.5	1
2.139	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.221175229051755, Environment Factor =1.5	1
2.140	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963 49, Environment Factor =1.5	1
2.141	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963 49, Environment Factor =1.5	1
2.142	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963 49, Environment Factor =1.5	1
2.143	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963 49, Environment Factor =1.5	1
2.144	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963 49, Environment Factor =1.5	1
2.145	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963 49, Environment Factor =1.5	1
2.146	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963 49, Environment Factor =1.5	1
2.147	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963 49, Environment Factor =1.5	1
2.148	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.9212719586963 49, Environment Factor =1.5	1

Name	Part Number	Category Description	Device Type	PI Factors All	Quantity
2.149	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor =1.5	1
2.150	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor =1.5	1
2.151	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor =1.5	1
2.152	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor =1.5	1
2.153	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor =1.5	1
2.154	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor =1.5	1
2.155	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor =1.5	1
2.156	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor =1.5	1
2.157	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor =1.5	1
2.158	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor =1.5	1
2.159	CC0603JRX7R9BB101	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.108739360517895, Environment Factor =1.5	1

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Approved By :R.Rachika.

Name	Part Number	Category Description	Device Type	Pi Factors As	Quantity
2.160	CC0603JRX7R9BB101	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1687393605 17895, Environment Factor =1.5	1
2.161	CC0603JRX7R9BB101	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1687393605 17895, Environment Factor =1.5	1
2.162	CC0603JRX7R9BB101	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1687393605 17895, Environment Factor =1.5	1
2.163	CC0603JRX7R9BB030	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1687393605 17895, Environment Factor =1.5	1
2.164	CC0603JRX7R9BB030	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1687393605 17895, Environment Factor =1.5	1
2.165	CC0603JRX7R9BB102	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1687393605 17895, Environment Factor =1.5	1
2.166	CC0603JRX7R9BB102	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1687393605 17895, Environment Factor =1.5	1
2.167	CC0603JRX7R9BB102	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1687393605 17895, Environment Factor =1.5	1
2.168	CC0603JRX7R9BB102	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1687393605 17895, Environment Factor =1.5	1
2.169	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.3443832592 1894, Environment Factor =1.5	1
2.170	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.3443832592 1894, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	PI Factors All	Quantity
2.171	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor =1.5	1
2.172	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor =1.5	1
2.173	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor =1.5	1
2.174	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor =1.5	1
2.175	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
2.176	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
2.177	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
2.178	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
2.179	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
2.180	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
2.181	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1

Analyst: N Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R.Radhika.

Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
2.182	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1687393605178 95, Environment Factor =1.5	1
2.183	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1687393605178 95, Environment Factor =1.5	1
2.184	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1687393605178 95, Environment Factor =1.5	1
2.185	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1687393605178 95, Environment Factor =1.5	1
2.186	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1687393605178 95, Environment Factor =1.5	1
2.187	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1687393605178 95, Environment Factor =1.5	1
2.188	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1687393605178 95, Environment Factor =1.5	1
2.189	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.3443832992189 4, Environment Factor =1.5	1
2.190	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1687393605178 95, Environment Factor =1.5	1
2.191	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.3443832992189 4, Environment Factor =1.5	1
2.192	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.3443832992189 4, Environment Factor =1.5	1

Analyst : N Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R.Radhika

Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
2.193	CC0603JRX7R9BB1C4	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor =1.5	1
2.194	CC0603JRX7R9SB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor =1.5	1
2.195	CC0603JRX7R9SB1C4	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor =1.5	1
2.196	CC0603JRX7R9SB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739260537895, Environment Factor =1.5	1
2.197	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor =1.5	1
2.198	CC0603JRX7R9BB1C4	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor =1.5	1
2.199	CC0603JRX7R9BB1C4	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor =1.5	1
2.200	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor =1.5	1
2.201	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor =1.5	1
2.202	CC0603JRX7R9BB1C4	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor =1.5	1
2.203	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor =1.5	1

Analyst: N Venkata Naga Aravind & Arupam Anand
Compiled By: Shuklam Kumar & V Jamboulingam
Approved By: K Radhika

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Name	Part Number	Category Description	Device Type	PI Factors All	Quantity
2.204	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299 21894, Environment Factor =1.5	1
2.205	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299 21894, Environment Factor =1.5	1
2.206	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299 21894, Environment Factor =1.5	1
2.207	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
2.208	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
2.209	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
2.211	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299 21894, Environment Factor =1.5	1
2.212	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299 21894, Environment Factor =1.5	1
2.213	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299 21894, Environment Factor =1.5	1
2.214	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1

Analyst: N Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam.
Approved By: R.Radhika

Name	Part Number	Category Description	Device Type	PI Factors	Quantity
2.215	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor =1.5	1
2.216	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
2.217	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
2.218	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor =1.5	1
2.219	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor =1.5	1
2.220	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor =1.5	1
2.221	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor =1.5	1
2.222	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor =1.5	1
2.223	CC0603JRX7R6BB224	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
2.224	CC0603JRX7R6BB224	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
2.225	CC1206JRX7R9BB105	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.210556763895 63, Environment Factor =1.5	1

Analyst: V Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R.Radhika

Name	Part Number	Category Designation	Device Type	Pi Factors All	Quantity
2.226	CC1206JRX7R0HB105	Capacitor	Fixed, Ceramic	Mean General Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.210555763895G3, Environment Factor =1.5	1
2.227	CC1206JRX7R0BB105	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.210555763895G3, Environment Factor =1.5	1
2.228	CC1206JRX7R0B9105	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.210555763895G3, Environment Factor =1.5	1
2.229	CC1206JRX7R6BB103	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.128734903587804, Environment Factor =1.5	1
2.230	CC1206JRX7R6BB103	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.128734903587804, Environment Factor =1.5	1
2.231	532530470	Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.16, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.232	532531670	Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.24, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.233	532531670	Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.234	532531670	Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.12, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.235	532531670	Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.16, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.236	532531670	Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.64, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.237	532530270	Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6 Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.238	532530270	Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.239	532530770	Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.28, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.240	532530870	Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.32, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1

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Compiled By: Shubham Kumar & V Jambulingam
Approved By: R.Radhika

Name	Part Number	Category Description	Device Type	Prediction All	Quantity
2.241	532590870	Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.32, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.242	532590870	Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.32, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.243		Connector	Multi-Pin	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.244	BB545	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 2.55, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.27137253504S6, Environment Factor =1.5	6
2.245	1NS819HW-7-F	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 2.55, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.31345618088260S, Environment Factor =1.5	3
2.246	SS1C	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 0.33, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.496585303791 41, Environment Factor =1.5	13
2.247	2SC2412	Transistor	GERMANIUM,NPN, > 0.6 and < 6.0 w	Mean Generic Steady State Failure rate = 46, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2844006121664 32, Environment Factor =1.5	1
2.248	AO3407	Transistor	GERMANIUM,NPN, > 0.6 and < 6.0 w	Mean Generic Steady State Failure rate = 46, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2844006121664 32, Environment Factor =1.5	1
2.249	2SC2412	Transistor	GERMANIUM,NPN, > 0.6 and < 6.0 w	Mean Generic Steady State Failure rate = 46, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2844006121664 32, Environment Factor =1.5	1
2.250	2SC2412	Transistor	GERMANIUM,NPN, > 0.6 and < 6.0 w	Mean Generic Steady State Failure rate = 46, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2844006121664 32, Environment Factor =1.5	1
2.251	MMBTA55LT1	Transistor	GERMANIUM,NPN, > 0.6 and < 6.0 w	Mean Generic Steady State Failure rate = 46, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1.1411083192672 3, Environment Factor =1.5	1
2.252	FC5-80-18-30Q-CES-TR	Crystal	CRYSTAL OSCILLATOR, Quartz Controlled	Mean Generic Steady State Failure rate = 3.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.253	PT4115C	IC-Analog Device	IC	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	2

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Compiled By: Shubham Kumar & V Jambulingam
Approved By: R Radhika

Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
2.254	PT4115E	IC Analog Device	IC	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	2
2.255	MP2359	IC-Analog Device	IC	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.256	MS3989	IC-Analog Device	IC	Mean Generic Steady State Failure rate = 3, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 2, Environment Factor = 1.5	1
2.257	MAX4297EUA+T	IC-Analog Device	IC	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.258	BA10393F	IC-Analog Device	IC	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.259	AT88SC0104C	IC-Analog Device	IC	Mean Generic Steady State Failure rate = 6.89, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.260	BA10358	IC-Analog Device	IC	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.261	MP2359	IC-Analog Device	IC	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.262	74HC02D	IC Digital Device	CMOS	Mean Generic Steady State Failure rate = 2.04, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
	ATVLH231	IC Digital Device	CMOS	Mean Generic Steady State Failure rate = 2.04, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.264	ULN2003A	IC-Digital Device	CMOS	Mean Generic Steady State Failure rate = 2.04, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.265	STM32F103RCT6	IC-Microprocessor	CMOS	Mean Generic Steady State Failure rate = 30.93, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.266	MPL-AY3020-4R7	Inductor	Power Filter	Mean Generic Steady State Failure rate = 0.24, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.267	B82477P4473M000	Inductor	Power Filter	Mean Generic Steady State Failure rate = 0.24, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.268	B82477P4473M000	Inductor	Power Filter	Mean Generic Steady State Failure rate = 0.24, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.269	B82477P4473M000	Inductor	Power Filter	Mean Generic Steady State Failure rate = 0.24, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
2.270	B82477P4473M000	Inductor	Power Filter	Mean Generic Steady State Failure rate = 0.24, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1

Analyst : N Venkata Naga Aravind & Anusam Anand;
Compiled By: Bhuvam Kumar & V Jambulingam;
Approved By: R.Rachika;

Name	Part Number	Category Description	Device Type	PI Factors : M	Quantity
3		Power Board			
3.1	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor = 1.5	1
3.2	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor = 1.5	1
3.3	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor = 1.5	1
3.4	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor = 1.5	1
3.5	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor = 1.5	1
3.6	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor = 1.5	1
3.7	RC0603DR-070R00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5220457767610 16, Environment Factor = 1.5	1
3.8	RC0603DR-071K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5294889409470 78, Environment Factor = 1.5	1
3.9	RC0603DR-071K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5227248775930 05, Environment Factor = 1.5	1
3.10	RC0603DR-071K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5237451855789 85, Environment Factor = 1.5	1
3.11	RC0603DR-071K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5230047592106 98, Environment Factor = 1.5	1

Analysis : N Venkata Naga Aravind & Anupam Anand
Compiled By Shubham Kumar & V Jamaulingam
Approved By R.Radhika.

Name	Part Number	Category Description	Device Type	PI Factors All	Quantity
3.12	RC0603DR-072K20L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.02, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.526681119456387, Environment Factor =1.5	1
3.13	RC0603DR-072K20L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.524290163911599, Environment Factor =1.5	1
3.14	RC0603DR-072K00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5438E7297604861, Environment Factor =1.5	1
3.15	RC0603DR-073K00L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.544926873595453, Environment Factor =1.5	1
3.16	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.558556221703709, Environment Factor =1.5	1
3.17	RC0603DR-073K30L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.555650267038387, Environment Factor =1.5	1
	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.525791782067939, Environment Factor =1.5	1
3.19	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.523540964782253, Environment Factor =1.5	1
3.20	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.529426994364933, Environment Factor =1.5	1
3.21	RC0603DR-074K70L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.529426994364933, Environment Factor =1.5	1
3.22	RC0603DR-071CK0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.526955064858115, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	PF Factors all	Quantity
3.23	RC0603DR-0712KDL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6 Temperature Factor = 1, Electrical Stress Factor = 0.5242901683115599, Environment Factor = 1.5	1
3.24	RC0603DR-0710K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5235749958050968, Environment Factor = 1.5	1
3.25	RC0603DR-071CK0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5295616683279651 Environment Factor = 1.5	1
3.26	RC1206DR-071CK0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5319105195614717, Environment Factor = 1.5	1
3.27	RC0603DR-0727K0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5344056935002729, Environment Factor = 1.5	1
3.28	RC0603DR-0763K4L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5371918425421657, Environment Factor = 1.5	1
3.29	RC0603DR-0775R0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5309433728850021, Environment Factor = 1.5	1
3.30	RC0603DR-0775R0L	Resistor	FILM (Carbon Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5293829783583582, Environment Factor = 1.5	1
3.31	RC0603DR-0775R0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5293829783583582, Environment Factor = 1.5	1
3.32	RC1206DR-0775R0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5255867511254979, Environment Factor = 1.5	1
3.33	RC1206DR-0775R0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5255867511254979, Environment Factor = 1.5	1

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Name	Part Number	Category Description	Device Type	Pi Factors A0	Quantity
3.34	RC1206DR-0775R0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.525586761254979, Environment Factor = 1.5	1
3.35	RC1206DR-0775R0L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.525586761254979, Environment Factor = 1.5	1
3.36	RC1206DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.546773849440906, Environment Factor = 1.5	1
3.37	RC1206DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.546773849440906, Environment Factor = 1.5	1
3.38	RC0603DR-07100KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.544928873505453, Environment Factor = 1.5	1
3.39	RC0603DR-07120KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.527640531912477, Environment Factor = 1.5	1
	RC0603DR-07150RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.522560803728511, Environment Factor = 1.5	1
3.41	RC1206DR-071K20L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.543938005006435, Environment Factor = 1.5	1
3.42	RC0603DR-071K2L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.545637741755625, Environment Factor = 1.5	1
3.43	RC0603DR-079K53L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.531633998046956, Environment Factor = 1.5	1
3.44	RC0603DR-0749K9L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.569554957177581, Environment Factor = 1.5	1

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Name	Part Number	Category Description	Device Type	FIT Factors	Quantity
3.45	RC0603DR-07470RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.525723431579278, Environment Factor = 1.5	1
3.46	RC0603DR-07470RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.527366750150121, Environment Factor = 1.5	1
3.47	RC0603DR-07470RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.523936824616103, Environment Factor = 1.5	1
3.48	REF122G681M050	Capacitor	Fixed, Aluminium, Electrolytic	Mean Generic Steady State Failure rate = 1.5, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.953133787077505, Environment Factor = 1.5	1
3.49	REF1225222M016	Capacitor	Fixed, Aluminium, Electrolytic	Mean Generic Steady State Failure rate = 1.5, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1.822113800390511, Environment Factor = 1.5	1
3.50	REF0612220M100	Capacitor	Fixed, Aluminium, Electrolytic	Mean Generic Steady State Failure rate = 0.73, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.953133787077505, Environment Factor = 1.5	1
3.51	REF1C20102M016	Capacitor	Fixed, Aluminium, Electrolytic	Mean Generic Steady State Failure rate = 1.5, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1.8721138003905111, Environment Factor = 1.5	1
3.52	REF1C20102M016	Capacitor	Fixed, Aluminium, Electrolytic	Mean Generic Steady State Failure rate = 1.5, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1.822113800390511, Environment Factor = 1.5	1
3.53	CC0603JRX7R638106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.15398004229089 2, Environment Factor = 1.5	1
3.54	CC0603JRX7R638106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.498077296577962, Environment Factor = 1.5	1
3.55	CC0603JRX7R9BB150	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739300517895, Environment Factor = 1.5	1

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Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
3.56	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor =1.5	1
3.57	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor =1.5	1
3.58	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor =1.5	1
3.59	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.292292577680859, Environment Factor =1.5	1
3.60	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.292292577680859, Environment Factor =1.5	1
3.61	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.292292577680859, Environment Factor =1.5	1
3.62	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor =1.5	1
3.63	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.292292577680859, Environment Factor =1.5	1
3.64	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.221175229051735, Environment Factor =1.5	1
3.65	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor =1.5	1
3.66	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	FIT Factors (f)	Quantity
3.67	CC1206JRX7R9BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor =1.5	1
3.68	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor =1.5	1
3.69	CC1206JRX7R8BB226	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor =1.5	1
3.70	CC1206JRX7R6BB225	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor =1.5	1
3.71	CC0603JRX7R0BB1C2	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299921894, Environment Factor =1.5	1
3.72	CC1206JRX7R7BB103	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.128734903587604, Environment Factor =1.5	1
3.73	CC1206JRX7R7BB103	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.128734903587604, Environment Factor =1.5	1
3.74	CC1206JRX7R7BB103	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.128734903587604, Environment Factor =1.5	1
3.75	CC1206JRX7R7BB103	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.128734903587604, Environment Factor =1.5	1
3.76	CC1206JRX7R7BB103	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.128734903587604, Environment Factor =1.5	1
3.77	CC1206JRX7R7BB103	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.128734903587604, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	PI Factors Ap	Quantity
3.78	CC1206JRX7R7BB103	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1287349035878O4, Environment Factor =1.5	1
3.79	CC1206JRX7R7BB103	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1287349035878O4, Environment Factor =1.5	1
3.80	CC0603JRX7R9BB103	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218S4, Environment Factor =1.5	1
3.81	CC0603JRX7R9BB103	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218S4, Environment Factor =1.5	1
3.82	CC0603JRX7R9BB103	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.193980042290892, Environment Factor =1.5	1
3.83	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218S4, Environment Factor =1.5	1
3.84	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218S4, Environment Factor =1.5	1
3.85	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
3.86	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.5	1
3.87	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218S4, Environment Factor =1.5	1
3.88	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218S4, Environment Factor =1.5	1

Name	Part Number	Category Description	Device Type	Parameters	Quantity
3.89	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.3443837992189 4, Environment Factor =1.5	1
3.90	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1939800422908 92, Environment Factor =1.5	1
3.91	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1939800422908 92, Environment Factor =1.5	1
3.92	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1687393505178 95, Environment Factor =1.5	1
3.93	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1939800422908 92, Environment Factor =1.5	1
3.94	CC0603JRX7R9BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1939800422908 92, Environment Factor =1.5	1
3.95	CC0603JRX7R9BB105	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1939800422908 92, Environment Factor =1.5	1
3.96	CC0603JRX7R9BB105	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.3443837992189 4, Environment Factor =1.5	1
3.97	CC0603JRX7R9BB105	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1939800422908 92, Environment Factor =1.5	1
3.98	CC1206JRX7R9BB105	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.3443837992189 4, Environment Factor =1.5	1
3.99	CC0603JRX7R9BB221	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.3443837992189 4, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
3.100	CC0603JRX7R9BB224	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218S4, Environment Factor =1.5	1
3.101	CC0603JRX7R8BB225	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.292292577680859, Environment Factor =1.5	1
3.102	CC1206JRX7R9BB225	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218S4, Environment Factor =1.5	1
3.103	CC1206JRX7R9BB225	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218S4, Environment Factor =1.5	1
3.104	CC1206JRX7R9BB225	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218S4, Environment Factor =1.5	1
3.105	CC1206JRX7R9BB225	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218S4, Environment Factor =1.5	1
3.106	CC1206JRX7R9BB225	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218S4, Environment Factor =1.5	1
3.107	CC0603JRX7R7BB475	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.299879366558732, Environment Factor =1.5	1
3.108	CC0603JRX7R9BB821	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.139736049027229, Environment Factor =1.5	1
3.109	CC0603JRX7R0BB204	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218S4, Environment Factor =1.5	1
3.110	CC0603JRX7R0BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218S4, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	PI Factors ...il	Quantity
3.111	CCU603JRX7R0BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 91, Environment Factor = 1.5	1
3.112	CC0603JRX7R03B104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor = 1.5	1
3.113	532530570	Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.24, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	2
3.114	532530470	Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.16, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
3.115	532530870	Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.32, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
3.116	1744057-3	Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.32, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
3.117	532530270	Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
3.118	532530870	Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.32, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
3.119	532531070	Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.64, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
3.120	BB545	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 2.55, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.27117253500 56, Environment Factor = 1.5	4
3.121	SM6J58CHE4	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 2.55, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.24544374564 0123, Environment Factor = 1.5	3
3.122	SS310-HF	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 4.6, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.21577911721 5389, Environment Factor = 1.5	1
3.123	1N5819HW	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 0.9, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.33559552564 4939, Environment Factor = 1.5	1
3.124	B2TS2C5V6	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 0.9, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.45238561198 9323, Environment Factor = 1.5	1

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Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
3.125	BZT52C5V6	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 0.9, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.45238561389323, Environment Factor =1.5	1
3.126	V10P10	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 0.9, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.486752255959972, Environment Factor =1.5	1
3.127	V10P10	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 0.9, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.486752255959972, Environment Factor =1.5	1
3.128	5.0SMDJ58CA	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 2.55, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.23584524295364, Environment Factor =1.5	3
3.129	TL431	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 0.9, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.6187839918C6141, Environment Factor =1.5	1
	KBL210	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 0.33, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.855559190371018, Environment Factor =1.5	1
	MBS10	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 0.33, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.774141968792248, Environment Factor =1.5	1
3.132	EL3H7	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 0.9, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.486752255959972, Environment Factor =1.5	4
3.133	1N4007W	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 4.6, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.202638164080876, Environment Factor =1.5	5
3.134	TS0201LD05V1C0	Diode	Diode,Low Frequency	Mean Generic Steady State Failure rate = 2.55, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.236277102408172, Environment Factor =1.5	4
3.135	BTA113/A	IC-Analog Device	Dc-DC	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
3.136	MP52359	IC-Analog Device	Dc-DC	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1

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Item	Part Number	Category Description	Device Type	Pi Factor	Quantity
3.137	AM41LV	IC-Analog Devices	DI-OC	Mean Generic Steady State Failure rate = 0.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
3.138	IC MS1x41 PCL	IC-Active Devices	Dc DL	Mean Generic Steady State Failure rate = 0.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
3.139	SG75	Miscellaneous Devices	SURGE ARRESTOR SMD / GAS DISCHARGE TUBE	Mean Generic Steady State Failure rate = 0.45, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
3.140	JK30-6CT	Miscellaneous Devices	FUSE, < 30A	Mean Generic Steady State Failure rate = 0.4, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
3.141	1GD220R	Miscellaneous Devices	CIRCUIT BREAKER, Protection-Only Application (per pole)	Mean Generic Steady State Failure rate = 50, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	4
3.142	SG75	Miscellaneous Devices	SURGE ARRESTOR SMD / GAS DISCHARGE TUBE	Mean Generic Steady State Failure rate = 0.45, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
3.143	SH145	Miscellaneous Devices	SURGE ARRESTOR SMD / GAS DISCHARGE TUBE	Mean Generic Steady State Failure rate = 0.45, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	9
3.144		Miscellaneous Devices	Power Supply	Mean Generic Steady State Failure rate = 175, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
3.145		Miscellaneous Devices	Fan	Mean Generic Steady State Failure rate = 150, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
3.146		Miscellaneous Devices	Motor	Mean Generic Steady State Failure rate = 25, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	2
3.147	MPL-AY3020-4R7	Inductor	Power Filter	Mean Generic Steady State Failure rate = 0.24, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
3.148	MPL-AY3020-4R7	Inductor	Power Filter	Mean Generic Steady State Failure rate = 0.24, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
3.149	SC-15-10.	Inductor	Power Filter	Mean Generic Steady State Failure rate = 0.24, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
3.150	8113-3C	Inductor	Power Filter	Mean Generic Steady State Failure rate = 0.24, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
3.151	TRC1102NL	Transformer	Pulse High Level (2 SV)	Mean Generic Steady State Failure rate = 9.8, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1

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Approved By: R.Radhika:

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Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
3.152	EFD2087SR	Transformer	Pulse High Level (≥ 5V)	Mean Generic Steady State Failure rate = 9.8, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
3.153	FQP075N15A	Transistor	GERMANIUM,NPN, > 0.6 and < 6.0 w	Mean Generic Steady State Failure rate = 46, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.2844006512166437, Environment Factor =1.5	2
3.154		Switch	Push Switch	Mean Generic Steady State Failure rate = 1.99, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.535796958, Environment Factor =1.5	1
3.155	HR81-5-DC12V	Relay	Latching	Mean Generic Steady State Failure rate = 3.9, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.581777814209809, Environment Factor = 1.5	1
4		Sensor Board			
4.1	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor = 1.5	1
4.2	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor =1.5	1
4.3	RC0402JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor = 1.5	1
4.4	RC0805JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor = 1.5	1
4.5	RC0805JR-070RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.522045776761016, Environment Factor = 1.5	1
4.6	RC0402DR-07[illegible]RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = [illegible], Environment Factor = 1.5	1
4.7	RC0402DR-07[illegible]RL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = [illegible], Quality Factor = [illegible], Temperature Factor = 1, Electrical Stress Factor = [illegible], Environment Factor = [illegible]	1

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4.8	RC0402DR-071DKL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5232198165583992, Environment Factor = 1.5	1
4.9	RC0402DR-0751KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5743637794183, Environment Factor = 1.5	1
4.10	RC0402DR-0751KL	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5243637794183, Environment Factor = 1.5	1
4.11	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5245E0137973312, Environment Factor = 1.5	1
4.12	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5245601379733 47, Environment Factor = 1.5	1
4.13	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.5245601379733 42, Environment Factor = 1.5	1
4.14	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.524560137973342, Environment Factor = 1.5	1
4.15	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.524560137973342, Environment Factor = 1.5	1
4.16	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.524560137973342, Environment Factor = 1.5	1
4.17	RC0402DR-074K7L	Resistor	FILM (Carbon, Oxide, Metal)	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.524560137973342, Environment Factor = 1.5	1
4.18	CC0603KRX7R8BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2105567639563, Environment Factor = 1.5	1

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Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
4.19	CC0603KRX5R6BB3106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.207131794481574, Environment Factor =1.5	1
4.20	CC0603KRX5R6BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.207131794481574, Environment Factor =1.5	1
4.21	CC06C3KRX5R6BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.21055676389563, Environment Factor =1.5	1
4.22	CC0EC3KRX5R6BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.207131794481574, Environment Factor =1.5	1
4.23	CC0603KRX5R6BB10E	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.221175229051755, Environment Factor =1.5	1
4.24	CC0603KRX5R6BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.207131794481574, Environment Factor =1.5	1
	CC0603KRX5R6BB1C6	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.207131794481574, Environment Factor =1.5	1
4.26	CC0603KRX5R6BB1C6	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2922925776808S9, Environment Factor =1.5	1
4.27	CC06C3KRX5R6BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.7922925776808S9, Environment Factor =1.5	1
4.28	CC0603KRX5R6BB105	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.221175229051755, Environment Factor =1.5	1
4.29	CC0603KRX5R6BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2922925776808S9, Environment Factor =1.5	1

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Approved By: R Radhika:

Name	Part Number	Category Description	Device Type	PF Factors	Quantity
4.30	CC0603KRX5R6BB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2922925776808S9, Environment Factor =1.5	1
4.31	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2071317944815?4, Environment Factor =1.5	1
4.32	CC0402JRX7R8EB105	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2071317944815?4, Environment Factor =1.5	1
4.33	CC0402JRX7R8ZB106	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2071317944815?4, Environment Factor =1.5	1
4.34	CC0402JRX7RRBB107	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2071317944815?4, Environment Factor =1.5	1
4.35	CC0402JRX7R6BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2105567638956?, Environment Factor =1.5	1
4.36	CC0402JRX7R6BB1O4	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2105567638956?, Environment Factor =1.5	1
4.37	CC0402JRX7R5BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2105567638956?, Environment Factor =1.5	1
4.38	CC0402JRX7R6BB1C4	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2105567638956?, Environment Factor =1.5	1
4.39	CC0402JRX7R6BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2105567638956?, Environment Factor =1.5	1
4.40	CC0402JRX7R6BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2692809555524?, Environment Factor =1.5	1

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Items	Part Number	Category Description	Device Type	Pi Factors All	Quantity
4.41	CC0402JRX7R6BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.769280955555245, Environment Factor =1.5	1
4.42	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.221175229051755, Environment Factor =1.5	1
4.43	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.210556763895 63, Environment Factor =1.5	1
4.44	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.221175229051755, Environment Factor =1.5	1
4.45	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.207131794481574, Environment Factor =1.5	1
4.46	CC0402JRX7R6BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.210556763895 63, Environment Factor =1.5	1
	CC0402JRX7R6BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.210556763895 63, Environment Factor =1.5	1
4.48	CC0402JRX7R6BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.210556763895 63, Environment Factor =1.5	1
4.49	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.221175229051755, Environment Factor =1.5	1
4.50	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.221175229051755, Environment Factor =1.5	1
4.51	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.207131794481574, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	PI Factors All	Quantity
4.52	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2071317941481574, Environment Factor =1.5	1
4.53	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2922925776808859, Environment Factor =1.5	1
4.54	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2922925776808859, Environment Factor =1.5	1
4.55	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2922925776808859, Environment Factor =1.5	1
4.56	CC0402JRX7R8BB104	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.2211752290517759, Environment Factor =1.5	1
4.57	CC0402JRX7R8BB103	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1420466150857, Environment Factor =1.5	1
4.58	CC0402JRX7R8BB103	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1420466150857, Environment Factor =1.5	1
4.59	CC0402JRX7R9BB102	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1420466150857, Environment Factor =1.5	1
4.60	CC0402JRX7R9BB102	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1420466150857, Environment Factor =1.5	1
4.61	CC0402JRX7R9BB102	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1420466150857, Environment Factor =1.5	1
4.62	CC0402JRX7R9BB102	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.1420466150857, Environment Factor =1.5	1

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Name	Part Number	Category Description	Device Type	Pi Factors All	Quantity
4.63	CC0402KRX5R7BB475	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.17508247659908, Environment Factor =1.5	1
4.64	CC0402KRX7R9BB121	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.16873936051789S, Environment Factor =1.5	1
4.65	CC0402KRX7R9BB121	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.16873936051789S, Environment Factor =1.5	1
4.66	CC1206JRX7R9BB102	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.12873490358780A, Environment Factor =1.5	1
4.67	CC1206JRX7R9BB102	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.12873490358780A, Environment Factor =1.5	1
4.68	CC1206JRX7R9BB102	Capacitor	Fixed, Ceramic	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 5, Temperature Factor = 1, Electrical Stress Factor = 0.12873490358780A, Environment Factor =1.5	1
4.69		Connector	Multi-Pin	Mean Generic Steady State Failure rate = 1.44, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
4.70		Connector	Multi-Pin	Mean Generic Steady State Failure rate = 0.96, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
4.71	830108207309	Crystal	QUARTZ CRYSTAL	Mean Generic Steady State Failure rate = 3.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
4.72	TLV70218DBVR	IC-Analog Device	DC-DC	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
4.73	TLV70212DBVR	IC-Analog Device	DC-DC	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
4.74	TLV70225DBVR	IC-Analog Device	DC-DC	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
4.75	MS41929	IC-Digital Device	CMOS	Mean Generic Steady State Failure rate = 2.04, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1
4.76	IVX335	IC-Digital Device	CMOS	Mean Generic Steady State Failure rate = 2.04, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	1

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Annexure- IV

Telcordia SR-332

PARAMETERS REPORT

(Temperature 40℃)

TELCORDIA SR-332 PARAMETERS REPORT

Name: SS-EN212-P( )
Failure Rate (in FITS): 9171.5/1938
MTBF: 109032.5636

Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
1		Main Board			
1.1	RC0402DR-0754K9L	Resistor	Quantity = 1,Applied Power =0.00032, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level B,Resistance = 54.9KΩ, Rated Power =0.0625	1
1.2	RC0402DR-0733K2L	Resistor	Quantity = 1,Applied Power =0.00027, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level B,Resistance = 33.2KΩ, Rated Power =0.0625	1
1.3	RC0402DR-071KL	Resistor	Quantity = 1,Applied Power =0.0001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level B,Resistance = 1KΩ, Rated Power =0.0625	1
1.4	RC0402DR-071KL	Resistor	Quantity = 1,Applied Power =0.0001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level B,Resistance = 1KΩ, Rated Power =0.0625	1
	RC0402DR-071KL	Resistor	Quantity = 1,Applied Power =0.0005, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level B,Resistance = 1KΩ, Rated Power =0.0625	1
1.6	RC0402DR-071KL	Resistor	Quantity = 1,Applied Power =0.0005625, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level B,Resistance = 1KΩ, Rated Power =0.0625	1
1.7	RC0402DR-071KL	Resistor	Quantity = 1,Applied Power =0.0005625, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level B,Resistance = 1KΩ, Rated Power =0.0625	1
1.8	RC0402DR-071KL	Resistor	Quantity = 1,Applied Power =0.0004625, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level B,Resistance = 1KΩ, Rated Power =0.0625	1
1.9	RC0402DR-071KL	Resistor	Quantity = 1,Applied Power =0.0005625, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level B,Resistance = 1KΩ, Rated Power =0.0625	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
1.10	- RC0402DR 071KL	Resistor	Quantity = 1,Applied Power =0.0005625, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type – FILM (Carbon, Oxide, Metal), Quality = Level C,Resistance = 1KΩ, Rated Power =0.0625	1
1.11	RC0402DR-0725K5L	Resistor	Quantity = 1,Applied Power =0.000008, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level C,Resistance = 25.5KΩ, Rated Power =0.0625	1
1.12	RC0402DR-0720KL	Resistor	Quantity = 1,Applied Power =0.000072, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level C,Resistance = 20KΩ, Rated Power =0.0625	1
1.13	RC0402DR-071DKL	Resistor	Quantity = 1,Applied Power =0.0000589, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level C,Resistance = 13KΩ, Rated Power =0.0625	1
1.14	RC0402DR-0710KL	Resistor	Quantity = 1,Applied Power =0.0000589, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level C,Resistance = 10KΩ, Rated Power =0.0625	1
	RC0402DR-0710KL	Resistor	Quantity = 1,Applied Power =0.000036, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level C,Resistance = 10KΩ, Rated Power =0.0625	1
	RC0402DR-C710KL	Resistor	Quantity = 1,Applied Power =0.000036, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level C,Resistance = 10KΩ, Rated Power =0.0625	1
1.17	RC0402DR-0710KL	Resistor	Quantity = 1,Applied Power =0.000036, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level C,Resistance = 10KΩ, Rated Power =0.0625	1
1.18	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.0001089, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level C,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.19	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.0001089, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level C,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.20	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.0001089, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level C,Resistance = 4.7KΩ, Rated Power =0.0625	1

Name	Part Number	Category Description	Application Parameters	Physical Parameters	Quantity
1.21	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000524, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.22	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power = 0.0001089, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.23	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000478, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.24	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000423, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.25	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000423, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.26	RC0201JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.05	1
1.27	RC0201JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.05	1
1.28	RC0201JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.05	1
1.29	RC0201JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.05	1
1.30	RC0201JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.05	1
1.31	RC0201JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.05	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
1.32	RT0201JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.05	1
1.33	RC0201JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.05	1
1.34	RC0201JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.05	1
1.35	RC0201JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.05	1
1.36	RC0201JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.05	1
1.37	RC0201JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.05	1
1.38	RC0402JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1
1.39	RC0402JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1
1.40	RC0402JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1
1.41	RC0402JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1
1.42	RC0402JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1

Name	Part Number	Category Description	Application Area Overall	Physical Parameters	Quantity
1.43	RC0402JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1
1.44	RC0402JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1
1.45	RC0402JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1
1.46	RC0402JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1
1.47	RC0402JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1
1.48	RC0402JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1
1.49	RC0402JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1
1.50	RC0402JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1
1.51	RC0402JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1
1.52	RC0402JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1
1.53	RC0402JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
1.54	RC0402JR-0709RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1
1.55	RC0402JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1
1.56	RC0402JR-07RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1
1.57	RC0402JR-07RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1
1.58	RC0402JR-07RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1
1.59	RC0402JR-07RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1
1.60	RC0402JR-0709RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1
1.61	RC0402DR-0722RL	Resistor	Quantity = 1,Applied Power =0.0022, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 22Ω, Rated Power =0.0625	1
1.62	RC0402DR-0722RL	Resistor	Quantity = 1,Applied Power =0.0022, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 22Ω, Rated Power =0.0625	1
1.63	RC0402DR-0722RL	Resistor	Quantity = 1,Applied Power =0.0022, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 22Ω, Rated Power =0.0625	1
1.64	RC0402DR-0722RL	Resistor	Quantity = 1,Applied Power =0.0022, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 22Ω, Rated Power =0.0625	1

Item	Part Number	Category Description	Application Parameters	Physical Parameters	Quantity
1.65	RC0402DR-0722RL	Resistor	Quantity = 1,Applied Power =0.0022, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 22Ω, Rated Power =0.0625	1
1.66	RC0402DR-0722RL	Resistor	Quantity = 1,Applied Power =0.0022, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 22Ω, Rated Power =0.0625	1
1.67	RC0402DR-0722RL	Resistor	Quantity = 1,Applied Power =0.0022, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 22Ω, Rated Power =0.0625	1
1.68	RC0402DR-0722RL	Resistor	Quantity = 1,Applied Power =0.0022, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 22Ω, Rated Power =0.0625	1
1.69	RC0402DR-0722RL	Resistor	Quantity = 1,Applied Power =0.0022, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 22Ω, Rated Power =0.0625	1
1.70	RC0402DR-0722RL	Resistor	Quantity = 1,Applied Power =0.0022, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 22Ω, Rated Power =0.0625	1
1.71	RC0402DR-0733RL	Resistor	Quantity = 1,Applied Power =0,Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 33Ω, Rated Power =0.0625	1
1.72	RC0201DR-071KL	Resistor	Quantity = 1,Applied Power =0.000, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1KΩ, Rated Power =0.05	1
1.73	RC0201DR-071KL	Resistor	Quantity = 1,Applied Power =0.000044, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1KΩ, Rated Power =0.05	1
1.74	RC0201DR-071KL	Resistor	Quantity = 1,Applied Power =0.000044, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1KΩ, Rated Power =0.05	1
1.75	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000423, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
1.76	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000423, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.77	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000423, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.78	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000423, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.79	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000423, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.80	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000423, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.81	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000423, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.82	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000423, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.83	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000423, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.84	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000423, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.85	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000423, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.86	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000423, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1

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Name	Part Number	Category Description	Application Parameters	Physical Parameters	Quantity
1.87	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.00023, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.88	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.00023, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.89	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.00017, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.90	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.00017, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.91	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.00017, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.92	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.00017, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.93	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.00017, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.94	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.00017, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.95	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.00017, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.96	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.00017, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
1.97	RC0402DR-07100KL	Resistor	Quantity = 1,Applied Power =0.00009, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100KΩ, Rated Power =0.0625	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
1.98	RC0402DR-07100KL	Resistor	Quantity = 1,Applied Power =0.00009, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100KΩ, Rated Power =0.0625	1
1.99	RC0402DR-07100KL	Resistor	Quantity = 1,Applied Power =0.00009, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal) Quality = Level 0,Resistance = 100KΩ, Rated Power =0.0625	1
1.100	RC0402DR-07100KL	Resistor	Quantity = 1,Applied Power =0.00009, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100KΩ, Rated Power =0.0625	1
1.101	RC0402DR-07100KL	Resistor	Quantity = 1,Applied Power =0.00009, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100KΩ, Rated Power =0.0625	1
1.102	RC0402DR-07100KL	Resistor	Quantity = 1,Applied Power =0.00009, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100KΩ, Rated Power =0.0625	1
1.103	RC0402DR-07100KL	Resistor	Quantity = 1,Applied Power =0.00009, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100KΩ, Rated Power =0.0625	1
	RC0402DR-07100KL	Resistor	Quantity = 1,Applied Power =0.00009, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100KΩ, Rated Power =0.0625	1
1.105	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.106	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.107	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.108	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.9, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1

Name	Part Number	Category Description	Application Parameters	Physical Parameters	Quantity
1.109	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
1.110	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
1.111	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
1.112	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
1.113	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
1.114	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
1.115	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
1.116	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
1.117	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
1.118	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
1.119	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
1.120	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.121	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.122	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.123	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.124	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.127	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.128	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.129	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.130	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1

Name	Part Number	Category Description	Application Parameters	Physical Parameters	Quantity
1.131	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.132	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.133	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.134	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.135	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.136	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.137	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.138	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.139	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.140	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.141	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uf, Rated Voltage = 50	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
1.142	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.143	CC0603KRX5R8BB106	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
1.144	CC0603KRX5R8BB106	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
1.145	CC0603KRX5R8BB10C	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
1.146	CC0603KRX5R8BB106	Capacitor	Quantity = 1, Applied Voltage = 0.9, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
1.147	CC0603KRX5R8BB106	Capacitor	Quantity = 1, Applied Voltage = 0.9, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
	CC0603KRX5R8BB106	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
1.149	CC0603KRX5R8BB106	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
1.150	CC0603KRX5R8BB106	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
1.151	CC0603KRX5R8BB106	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
1.152	CC0603KRX5R8BB106	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1

Name	Part Number	Category Description	Application Parameters	Physical Parameters	Quantity
1.153	CC0603KRX5R8BB106	Capacitor	Quantity = 1, Applied Voltage = 1.5, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
1.154	CC0603KRX5R8BB106	Capacitor	Quantity = 1, Applied Voltage = 1.5, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
1.155	CC0603KRX5R8BB106	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
1.156	CC0603KRX5R8BB106	Capacitor	Quantity = 1, Applied Voltage = 1.5, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
1.157	CC0603KRX5R8BB106	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
1.158	CC0603KRX5R8BB106	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
1.159	CC0603KRX5R8BB106	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
1.160	CC0603KRX5R8BB105	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 1uF, Rated Voltage = 25	1
1.161	CC0402KRX5R9BB224	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.22uF, Rated Voltage = 50	1
1.162	CC0402KRX5R9BB224	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.22uF, Rated Voltage = 50	1
1.163	CC0402KRX5R9BB224	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.22uF, Rated Voltage = 50	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
1.164	CC0402xRx5R9BB224	Capacitor	Quantity = 1, Applied Voltage = 1.5, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.22uF, Rated Voltage = 50	1
1.165	CC0402xRx5R9BB224	Capacitor	Quantity = 1, Applied Voltage = 1.5, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.22uF, Rated Voltage = 50	1
1.166	CC0402xRx5R9BB224	Capacitor	Quantity = 1, Applied Voltage = 1.5, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.22uF, Rated Voltage = 50	1
1.167	CC0402xRx5R9BB224	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.22uF, Rated Voltage = 50	1
1.168	CC0402KRx5R9BB224	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.22uF, Rated Voltage = 50	1
1.169	CC0402KRx5R9BB224	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.22uF, Rated Voltage = 50	1
	CC0402KRx5R9BB224	Capacitor	Quantity = 1, Applied Voltage = 0.9, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.22uF, Rated Voltage = 50	1
1.171	CC0402KRx5R9BB475	Capacitor	Quantity = 1, Applied Voltage = 2.8, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 4.7uF, Rated Voltage = 50	1
1.172	CC0402KRx5R9BB475	Capacitor	Quantity = 1, Applied Voltage = 1.5, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 4.7uF, Rated Voltage = 50	1
1.173	CC0402KRx5R9BB475	Capacitor	Quantity = 1, Applied Voltage = 1.5, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 4.7uF, Rated Voltage = 50	1
1.174	CC0402KRx5R9BB475	Capacitor	Quantity = 1, Applied Voltage = 1.5, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 4.7uF, Rated Voltage = 50	1

Name	Part Number	Category Description	Application / Environment	Physical Dimensions	Quantity
1.175	CC0402KRX5R9BB475	Capacitor	Quantity = 1, Applied Voltage = 1.5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 4.7uF, Rated Voltage = 50	1
1.176	CC0402KRX5R9BB475	Capacitor	Quantity = 1, Applied Voltage = 1.5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 4.7uF, Rated Voltage = 50	1
1.177	CC0402KRX5R9BB475	Capacitor	Quantity = 1, Applied Voltage = 1.5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 4.7uF, Rated Voltage = 50	1
1.178	CC0402KRX5R9BB475	Capacitor	Quantity = 1, Applied Voltage = 1.5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 4.7uF, Rated Voltage = 50	1
1.179	CC0402KRX5R9BB475	Capacitor	Quantity = 1, Applied Voltage = 1.5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 4.7uF, Rated Voltage = 50	1
1.180	CC0402KRX5R9BB475	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 4.7uF, Rated Voltage = 50	1
1.181	CC0402KRX5R9BB475	Capacitor	Quantity = 1, Applied Voltage = 1.5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 4.7uF, Rated Voltage = 50	1
1.182	CC0402KRX5R9BB475	Capacitor	Quantity = 1, Applied Voltage = 1.5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 4.7uF, Rated Voltage = 50	1
1.183	CC0402KRX5R9BB475	Capacitor	Quantity = 1, Applied Voltage = 1.5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 4.7uF, Rated Voltage = 50	1
1.184	CC0402KRX5R9BB475	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 4.7uF, Rated Voltage = 50	1
1.185	CC0402KRX5R9BB475	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 4.7uF, Rated Voltage = 50	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
1.186	CC0402KRX5R8B8225	Capacitor	Quantity = 1, Applied Voltage = 0.9, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 2.2uF, Rated Voltage = 25	1
1.187	CC0402KRX5R8B3225	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 2.2uF, Rated Voltage = 25	1
1.188	CC0402KRX5R8B6225	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 2.2uF, Rated Voltage = 25	1
1.189	CC0402KRX5R8B6225	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 2.2uF, Rated Voltage = 25	1
1.190	CC0402KRX5R8B6225	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 2.2uF, Rated Voltage = 25	1
1.191	CC0402KRX5R8B6225	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 2.2uF, Rated Voltage = 25	1
1.192	CC0402KRX5R8B8225	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 2.2uF, Rated Voltage = 25	1
1.193	CC0402KRX5R8B3225	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 2.2uF, Rated Voltage = 25	1
1.194	CC0402KRX5R8B8225	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 2.2uF, Rated Voltage = 25	1
1.195	CC0402KRX5R8B0225	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 2.2uF, Rated Voltage = 25	1
1.196	CC0402KRX5R6R8725	Capacitor	Quantity = 1, Applied Voltage = 0.9, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 2.2uF, Rated Voltage = 25	1

Name	Part Number	Category Description	Application Parameters ...	Physical Parameters ...	Quantity
1.197	CC0402KRX5R8BB225	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed Ceramic, Quality = Level 0, Capacitance = 2.2uF, Rated Voltage = 25	1
1.198	CC0402KRX5R8BB225	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 2.2uF, Rated Voltage = 25	1
1.199	CC0402KRX5R8BB225	Capacitor	Quantity = 1, Applied Voltage = 0.9, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 2.2uF, Rated Voltage = 25	1
1.200	CC0402JRX7R9BB121	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 120pF, Rated Voltage = 50	1
1.201	CC0402JRX7R9BB121	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 120pF, Rated Voltage = 50	1
1.202	CC0402JRX7R9BB121	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 120pF, Rated Voltage = 50	1
1.203	CC0402JRX7R9BB121	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 120pF, Rated Voltage = 50	1
1.204	CC0402JRX7R9BB101	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 100pF, Rated Voltage = 50	1
1.205	CC0402JRX7R9BB101	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 100pF, Rated Voltage = 50	1
1.206	CC0201KRX7R7BB???	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 16	1
1.207	CC0201JRX7R7BB???	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 16	1

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Approved By : R.Radhika.

Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
1.208	CC0201JRX7R7BB79	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 1000pF, Rated Voltage = 16	1
1.209	CC0201JRX7R7BB80	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 1000pF, Rated Voltage = 16	1
1.210	CC0201JRX7R7BB81	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 1000pF, Rated Voltage = 16	1
1.211	CC0201JRX7R7BB82	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 1000pF, Rated Voltage = 16	1
1.212	CC0201JRX7R7BB83	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 1000pF, Rated Voltage = 16	1
1.213	CC0201JRX7R7BB84	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 1000pF, Rated Voltage = 16	1
	CC0201JRX7R7BB85	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 1000pF, Rated Voltage = 16	1
1.215	CC0201JRX7R7BB86	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 1000pF, Rated Voltage = 16	1
1.216	CC0201JRX7R7BB87	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 1000pF, Rated Voltage = 16	1
1.217	CC0201JRX7R7BB88	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 1000pF, Rated Voltage = 16	1
1.218	CC0201JRX7R7BB89	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 1000pF, Rated Voltage = 16	1

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Approved By: R.Radhika

Name	Part Number	Category Description	Application Parameters	Physical Parameters	Quantity
1.219	CC0201RX7R7B89C	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality Level 0, Capacitance = 1000pF, Rated Voltage = 16	1
1.220	CC0201.RX7R7BB91	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 16	1
1.221	CC0201.RX7R7BB97	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 16	1
1.222	CC0201.RX7R7BB93	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 16	1
1.223	CC0201.RX7R7BB94	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 16	1
1.224	CC0201.RX7R7BB95	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 16	1
1.225	CC0201RX7R7BB96	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 16	1
1.226	CC0201RX7R7BB97	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 16	1
1.227	CC0201RX7R7BB98	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 16	1
1.228	CC0201JRX7R7BB99	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 16	1
1.229	CC0201.RX7R7BB1C0	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 16	1

Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
1.230	CC0201JRX7R7BB101	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level D,Capacitance = 100pF, Rated Voltage = 16	1
1.231	CC0201JRX7R7BB102	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level D,Capacitance = 1000pF, Rated Voltage = 16	1
1.232	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level D,Capacitance = 0.1uF, Rated Voltage = 50	1
1.233	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level C,Capacitance = 0.1uF, Rated Voltage = 50	1
1.234	CC0402KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level D,Capacitance = 0.2uF, Rated Voltage = 50	1
1.235	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level D,Capacitance = 0.1uF, Rated Voltage = 50	1
1.236	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level D,Capacitance = 0.1uF, Rated Voltage = 50	1
1.237	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level C,Capacitance = 0.1uF, Rated Voltage = 50	1
1.238	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level D,Capacitance = 0.1uF, Rated Voltage = 50	1
1.239	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 2.5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level D,Capacitance = 0.1uF, Rated Voltage = 50	1
1.240	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level D,Capacitance = 0.1uF, Rated Voltage = 50	1

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Approved By. R.Radhika:

Name	Part Number	Category Description	Application Parameters (All	Physical Parameters (All	Quantity
1.241	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.242	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.243	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.244	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.245	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.246	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.247	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.248	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.249	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.250	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.251	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
1.252	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.253	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.254	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.255	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.256	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.257	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.258	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.259	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.260	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.261	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.262	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1

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Name	Part Number	Category Description	Application Parameters	Physical Parameters	Quantity
1.263	CC02C1KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.264	CC02C1KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.265	CC02C1KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.266	CC02C1KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.267	CC02C1KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.268	CC02C1KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.269	CC02C1KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.270	CC02C1KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.271	CC02C1KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.272	CC02C1KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
1.273	CC02C1KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1

Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
L274	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
L275	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
L276	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
L277	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
L278	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
L279	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
L280	CC0201KRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
L281	CCC805KRX5R8BB106	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
L282	CCC805KRX5R8BB106	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
L283	CCC805KRX5R8BB106	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
L284	CCC805KRX5R8BB106	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1

Name	Part Number	Category Description	Application Parameters	Physical Parameters	Quantity
1.285	CC0805KRX5R8BB106	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 10uF, Rated Voltage = 25	1
1.286	CC0805KRX5R8BB105	Capacitor	Quantity = 1, Applied Voltage = 0.75, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1uF, Rated Voltage = 25	1
1.287	CC0805KRX5R8BB105	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 12	1
1.288		Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 30	1
1.289		Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 24	1
1.290		Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 4	1
1.291	532530470	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 4	1
1.292	532530470	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 12	1
1.293	530106207309	Crystal	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = CRYSTAL OSCILLATOR, Quartz Controlled, Quality = Level 0	1
1.294	FC-135 32.768DKA-A5	Crystal	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = CRYSTAL OSCILLATOR, Quartz Controlled, Quality = Level 0	1
1.295	TPS562201DDCR	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = 2A synchronous step-down converter, Quality = Level 0, No of Transistors = 50-100	1
1.296	TPS562201DDCR	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = 2A synchronous step-down converter, Quality = Level 0, No of Transistors = 50-100	1
1.297	TLV62569DBVR	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = 2A synchronous step-down converter, Quality = Level 0, No of Transistors = 50-100	1
1.298	TLV62569DBVR	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = 2A synchronous step-down converter, Quality = Level 0, No of Transistors = 50-100	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
1.299	TLV62559DBVR	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = 2A synchronous step-down converter, Quality = Level 0 , No of Transistors = 50-100	1
1.300	TLV70225DBVR	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = 300mA Low-Dropout Regulator, Quality = Level 0 , No of Transistors = 20-30	1
1.301	RT9078/A-08	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = 300mA Low-Dropout Regulator, Quality = Level 0 , No of Transistors = 20-30	1
1.302	TLV62558DRLR	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = 1A synchronous step-down converter, Quality = Level 0 , No of Transistors = 50-100	1
1.303	Cv28s33m	IC-Microprocessor	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Technology = Comp Metal Oxide Semicon, Bus Width(in Bits) = 64,Quality = Level 0	1
1.304	ES83235	IC-Digital Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Technology = CMOS, No.of Gates/Range = Tens of thousands to hundreds of thousands , Quality = Level 0	1
	DP83825IRMQR	IC Digital Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Technology = CMOS, No.of Gates/Range = Tens of thousands , Quality = Level 0	1
1.306	SN74AVCH2T45DCU	IC-Digital Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Technology = CMOS, No.of Gates/Range = Hundreds to a few thousand , Quality = Level 0	1
1.307	MP811TEUS	IC-Digital Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Technology = CMOS, No.of Gates/Range = A few hundred , Quality = Level 0	1
1.308	W74DA512M16L-062E TIE	IC Memory	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = DRAM, Technology = CMOS, No of Bits = 8,589,934,592 bits , Quality = Level 0	1
1.309	MX35LF1GE4AB	IC-Memory	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = ROM, Technology = CMOS, No.of Bits = 1,073,741,824 bits , Quality = Level 0	1
1.310	0415CDMCCDS-2R2MC	Inductor	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Power Filter, Quality = Level 0	1
1.311	0415CDMCCDS-2R2MC	Inductor	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Power Filter, Quality = Level 0	1

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Name	Part Number	Category Description	Application Parameters	Physical Parameters	Quantity
1.312	0415CDMCCDS-2R2MC	Inductor	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Power Filter, Quality = Level 0	1
1.313	SRR5228A-4R7Y	Inductor	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Power Filter, Quality = Level 0	1
1.314	SRR5228A-4R7Y	Inductor	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Power Filter, Quality = Level 0	1
1.315	0415CDMCCDS 2R2MC	Inductor	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Power Filter, Quality = Level 0	1
1.316	HR6B1068	Transformer	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Pulse High Level (2.5V), Quality = Level C	1
1.317	3EVC64D5C	Diode	Quantity = 1,Operating Current(in Amps) =0.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = TVS Surge Supressor, Quality = Level 0, Rated Current(in Amps) =7.2	1
1.318	SM8S15CA	Diode	Quantity = 1,Operating Current(in Amps) =0.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = TVS Surge Supressor, Quality = Level 0, Rated Current(in Amps) =21.6	1
1.319	RB521s30t1	Diode	Quantity = 1,Operating Current(in Amps) =0.1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = Thyristor, Quality = Level C, Rated Current(in Amps) =1	1
1.320	PESD0402ASOS	Diode	Quantity = 1,Operating Current(in Amps) =0.01, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = TVS Surge Supressor, Quality = Level C, Rated Current(in Amps) =40	1
1.321	LC03	Diode	Quantity = 1,Operating Current(in Amps) =0.1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = TVS Surge Supressor, Quality = Level 0, Rated Current(in Amps) =40	1
1.322	LC03.	Diode	Quantity = 1,Operating Current(in Amps) =0.1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = TVS Surge Supressor, Quality = Level 0, Rated Current(in Amps) =40	1
2		Control Board			
2.1	RC0603D9-07 1K00L	Resistor	Quantity = 1,Applied Power =0.01S, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = F.M (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1K?, Rated Power =0.1	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
2.2	RC0603DR-071K00L	Resistor	Quantity = 1,Applied Power =0.015, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1KΩ, Rated Power =0.1	1
2.3	RC0603DR-071K00L	Resistor	Quantity = 1,Applied Power =0.015, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1KΩ, Rated Power =0.1	1
2.4	RC0603DR-071K00L	Resistor	Quantity = 1,Applied Power =0.015, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1KΩ, Rated Power =0.1	1
2.5	RC0603DR-070R00L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.1	1
2.6	RC0603DR-070R00L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.1	1
	RC0603DR-070R00L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.1	1
	RC0603DR-070R00L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.1	1
2.9	RC0603DR-070R00L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.1	1
2.10	RC0603DR-070R00L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.1	1
2.11	RC0603DR-070R00L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.1	1
2.12	RC0603DR-070R00L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.1	1

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Name	Part Number	Category Description	Application Parameters	Physical Parameters	Quantity
2.13	RC0603DR-070R0GL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.1	1
2.14	RC0603DR-070R0UL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.1	1
2.15	RC0603DR-070R0GL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.1	1
2.16	RC0603DR-070R0GL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.1	1
2.17	RC0603DR-070R0GL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.1	1
2.18	RC0603DR-070R0GL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.1	1
2.19	RC0603DR-070R0GL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.1	1
2.20	RC0603DR-070R0GL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.1	1
2.21	RC0603DR-070R0GL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.1	1
2.22	RC0603DR-070R0GL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.1	1
2.23	RC0603DR-070R0GL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.1	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
2.24	RC0402JR-070R00L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 00, Rated Power =0.0625	1
2.25	RC0402JR-070R00L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 00, Rated Power =0.0625	1
2.26	RC0402JR-070R00L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 00, Rated Power =0.0625	1
2.27	RC0402JR-070R00L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 00, Rated Power =0.0625	1
2.28	RC0402JR-070R00L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 00, Rated Power =0.0625	1
	RC0402JR-070R00L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 00, Rated Power =0.0625	1
	RC0402JR-070R00L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 00, Rated Power =0.0625	1
2.31	RC0402JR-070R00L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 00, Rated Power =0.0625	1
2.32	RC0402DR-0751KL	Resistor	Quantity = 1,Applied Power =0.000327, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 510, Rated Power =0.0625	1
2.33	RC0402DR-0751KL	Resistor	Quantity = 1,Applied Power =0.00049, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 510, Rated Power =0.0625	1
2.34	RC0402DR-0751KL	Resistor	Quantity = 1,Applied Power =0.00039, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 510, Rated Power =0.0625	1

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Name	Part Number	Category / Description	Application Parameters	Physical Parameters	Count
2.35	RC0402DR-0751K0L	Resistor	Quantity = 1,Applied Power =0.00018, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 51Ω, Rated Power =0.0625	1
2.36	RC0402DR-0751K0L	Resistor	Quantity = 1,Applied Power =0.00049, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 51Ω, Rated Power =0.0625	1
2.37	RC0402DR-0751K0L	Resistor	Quantity = 1,Applied Power =0.000327, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 51Ω, Rated Power =0.0625	1
2.38	RC0402DR-0751K0L	Resistor	Quantity = 1,Applied Power =0.000327, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 51Ω, Rated Power =0.0625	1
2.39	RC0402DR-071OK0L	Resistor	Quantity = 1,Applied Power =0.001089, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10KΩ, Rated Power =0.0625	1
2.40	RC0402DR-071OK0L	Resistor	Quantity = 1,Applied Power =0.001089, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10KΩ, Rated Power =0.0625	1
2.41	RC0402DR-071OK0L	Resistor	Quantity = 1,Applied Power =0.001089, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10KΩ, Rated Power =0.0625	1
2.42	RC0603DR-071OK0L	Resistor	Quantity = 1,Applied Power =0.00308, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10KΩ, Rated Power =0.1	1
2.43	RC0603DR-071OK0L	Resistor	Quantity = 1,Applied Power =0.00308, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10KΩ, Rated Power =0.1	1
2.44	RC0603DR-071OK0L	Resistor	Quantity = 1,Applied Power =0.001089, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10KΩ, Rated Power =0.1	1
2.45	RC0603DR-071OK0L	Resistor	Quantity = 1,Applied Power =0.001089, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10KΩ, Rated Power =0.1	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
2.46	RC0603DR-071CKO.	Resistor	Quantity = 1,Applied Power =0.00205, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level C,Resistance = 10KΩ, Rated Power =0.1	1
2.47	RC0603DR-071C4O.	Resistor	Quantity = 1,Applied Power =0.001089, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level C,Resistance = 10KΩ, Rated Power =0.1	1
2.48	RC0603DR-071CKO.	Resistor	Quantity = 1,Applied Power =0.0013, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level C,Resistance = 10KΩ, Rated Power =0.1	1
2.49	RC0603DR-071CKO.	Resistor	Quantity = 1,Applied Power =0.003308, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level C,Resistance = 10KΩ, Rated Power =0.1	1
2.50	RC0603DR-071CKO.	Resistor	Quantity = 1,Applied Power =0.003308, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level C,Resistance = 10KΩ, Rated Power =0.1	1
	RC0603DR-071CKOL	Resistor	Quantity = 1,Applied Power =0.000035, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level C,Resistance = 10KΩ, Rated Power =0.1	1
	RC0603DR-0710K0L	Resistor	Quantity = 1,Applied Power =0.001089 Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level C,Resistance = 10KΩ, Rated Power =0.1	1
2.53	RC0603DR-0710K0L	Resistor	Quantity = 1,Applied Power =0.001089, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level C,Resistance = 10KΩ, Rated Power =0.1	1
2.54	RC0603DR-0710K0L	Resistor	Quantity = 1,Applied Power =0.001089, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level C,Resistance = 10KΩ, Rated Power =0.1	1
2.55	RC0603DR-0710K0L	Resistor	Quantity = 1,Applied Power =0.001089, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level C,Resistance = 10KΩ, Rated Power =0.1	1
2.56	RC0603DR-0710K0L	Resistor	Quantity = 1,Applied Power =0.001089, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level C,Resistance = 10KΩ, Rated Power =0.1	1

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Name	Part Number	Category Description	Application Parameters	Physical Parameters	Qty
2.57	RC0603DR-0712K0L	Resistor	Quantity = 1,Applied Power =0.001089, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 12KΩ, Rated Power =0.1	1
2.58	RC0603DR-0710K0L	Resistor	Quantity = 1,Applied Power =0.001089, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10KΩ, Rated Power =0.1	1
2.59	RC0603DR-0710K0L	Resistor	Quantity = 1,Applied Power =0.0005, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10KΩ, Rated Power =0.1	1
2.60	RC0603DR-0710K0L	Resistor	Quantity = 1,Applied Power =0.00023, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10KΩ, Rated Power =0.1	1
2.61	RC0603DR-07332RL	Resistor	Quantity = 1,Applied Power =0.001089, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 332Ω, Rated Power =0.1	1
2.62	RC0603DR-0710KOL	Resistor	Quantity = 1,Applied Power =0.0001, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10KΩ, Rated Power =0.1	1
2.63	RC0603DR-073GK0L	Resistor	Quantity = 1,Applied Power =0.0003025, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 3GKΩ, Rated Power =0.1	1
2.64	RC0603DR-0747K0L	Resistor	Quantity = 1,Applied Power =0.00306, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 47KΩ, Rated Power =0.1	1
2.65	RC0603DR-0747K0L	Resistor	Quantity = 1,Applied Power =0.00306, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 47KΩ, Rated Power =0.1	1
2.66	RC0603DR-0747K0L	Resistor	Quantity = 1,Applied Power =0.00023, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 47KΩ, Rated Power =0.1	1
2.67	RC0603DR-075K6L	Resistor	Quantity = 1,Applied Power =0.00257, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 5.6KΩ, Rated Power =0.1	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
2.68	RC0603DR-075K6DL	Resister	Quantity = 1,Applied Power =0.00257, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 5.6KΩ, Rated Power =0.1	1
2.69	RC0603DR-075K6DL	Resister	Quantity = 1,Applied Power =0.00257, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 5.6KΩ, Rated Power =0.1	1
2.70	RC0603DR-075K6DL	Resister	Quantity = 1,Applied Power =0.00257, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 5.6KΩ, Rated Power =0.1	1
2.71	RC0603DR-075K6DL	Resister	Quantity = 1,Applied Power =0.00257, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 5.6KΩ, Rated Power =0.1	1
2.72	RC0603DR-075K6DL	Resister	Quantity = 1,Applied Power =0.00194, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 5.6KΩ, Rated Power =0.1	1
2.73	RC0603DR-075K6DL	Resister	Quantity = 1,Applied Power =0.00194, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 5.6KΩ, Rated Power =0.1	1
2.74	RC0603DR-07100KL	Resister	Quantity = 1,Applied Power =0.0001089, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100KΩ, Rated Power =0.1	1
2.75	RC0603DR-07100KL	Resister	Quantity = 1,Applied Power =0.00144, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100KΩ, Rated Power =0.1	1
2.76	RC0603DR-07100KL	Resister	Quantity = 1,Applied Power =0.00144, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100KΩ, Rated Power =0.1	1
2.77	RC0603DR-07100KL	Resister	Quantity = 1,Applied Power =0.00144, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100KΩ, Rated Power =0.1	1
2.78	RC0603DR-07100KL	Resister	Quantity = 1,Applied Power =0.0001089, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100KΩ, Rated Power =0.1	1

Analyst : N Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R.Radhika.

Name	Part Number	Category Description	Application Parameters	Physical Parameters	Qty
2.79	RC0603DR-0710CKL	Resistor	Quantity = 1,Applied Power =0.00016, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100KΩ, Rated Power =0.1	1
2.80	RC0603DR-0718KCL	Resistor	Quantity = 1,Applied Power =0.00315, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 18KΩ, Rated Power =0.1	1
2.81	RC0603DR-0720K0L	Resistor	Quantity = 1,Applied Power =0.0098, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 20KΩ, Rated Power =0.1	1
2.82	RC0603DR-072K20L	Resistor	Quantity = 1,Applied Power =0.00055, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 2.2KΩ, Rated Power =0.1	1
2.83	RC0603DR-072K20L	Resistor	Quantity = 1,Applied Power =0.00065, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 2.2KΩ, Rated Power = 0.1	1
2.84	RC0603DR-073K0L	Resistor	Quantity = 1,Applied Power =0.00048, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 30KΩ, Rated Power =0.1	1
2.85	RC0603DR-073OKOL	Resistor	Quantity = 1,Applied Power =0.00048, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 30KΩ, Rated Power =0.1	1
2.86	RC0603DR-073OKOL	Resistor	Quantity = 1,Applied Power =0.00024, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 30KΩ, Rated Power =0.1	1
2.87	RC0603DR-073OKOL	Resistor	Quantity = 1,Applied Power =0.00024, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 30KΩ, Rated Power =0.1	1
2.88	RC0603DR-073OKOL	Resistor	Quantity = 1,Applied Power =0.000363, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 30KΩ, Rated Power =0.1	1
2.89	RC0603DR-073OKOL	Resistor	Quantity = 1,Applied Power =0.000363, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 30KΩ, Rated Power =0.1	1

Analyst : V Venkata Naga Aravind & Anupam Anand
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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
2.90	RC0603DR-0730KOL	Resistor	Quantity = 1,Applied Power =0.00026, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 30KΩ, Rated Power =0.1	1
2.91	RC0603DR-0733KOL	Resistor	Quantity = 1,Applied Power =0.00022, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 33KΩ, Rated Power =0.1	1
2.92	RC0603DR-074K70L	Resistor	Quantity = 1,Applied Power =0.000117, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.1	1
2.93	RC0603DR-074K70L	Resistor	Quantity = 1,Applied Power =0.000117, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.1	1
2.94	RC0603DR-074K70L	Resistor	Quantity = 1,Applied Power =0.00231, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.1	1
2.95	RC0603DR-074K70L	Resistor	Quantity = 1,Applied Power =0.00231, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.1	1
2.96	RC0603DR-074K70L	Resistor	Quantity = 1,Applied Power =0.00231, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.1	1
2.97	RC0603DR-074K70L	Resistor	Quantity = 1,Applied Power =0.00231, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.1	1
2.98	RC0603DR-074K70L	Resistor	Quantity = 1,Applied Power =0.00231, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.1	1
2.99	RC0603DR-074K70L	Resistor	Quantity = 1,Applied Power =0.00231, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.1	1
2.100	RC0603DR-074K70L	Resistor	Quantity = 1,Applied Power =0.00231, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.1	1

Analyst : N Venkata Naga Aravind & Anupam Anand
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Approved By : R.Radhika

Item	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
2.101	RC0603DR-074K7QL	Resistor	Quantity = 1,Applied Power =0.000231, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level B,Resistance = 4.7KΩ, Rated Power =0.1	1
2.102	RC0603DR-0751K0L	Resistor	Quantity = 1,Applied Power =0.000213, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level B,Resistance = 51KΩ, Rated Power =0.1	1
2.103	RC0603DR-0751K0L	Resistor	Quantity = 1,Applied Power =0.000213, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level B,Resistance = 51KΩ, Rated Power =0.1	1
2.104	RC0603DR-0751K0L	Resistor	Quantity = 1,Applied Power =0.000213, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level B,Resistance = 51KΩ, Rated Power =0.1	1
2.105	RC0603DR-0751K0L	Resistor	Quantity = 1,Applied Power =0.000213, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level B,Resistance = 51KΩ, Rated Power =0.1	1
2.106	RC0603DR-0751K0L	Resistor	Quantity = 1,Applied Power =0.000213, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level B,Resistance = 51KΩ, Rated Power =0.1	1
2.107	RC0603DR-0751K0L	Resistor	Quantity = 1,Applied Power =0.000213, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level B,Resistance = 51KΩ, Rated Power =0.1	1
2.108	RC0603DR-0751K0L	Resistor	Quantity = 1,Applied Power =0.000213, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level B,Resistance = 51KΩ, Rated Power =0.1	1
2.109	RC0603DR-076K2QL	Resistor	Quantity = 1,Applied Power =0.000286, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level B,Resistance = 6.2KΩ, Rated Power =0.1	1
2.110	RC0603DR-0751K0L	Resistor	Quantity = 1,Applied Power =0.000213, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level B,Resistance = 51KΩ, Rated Power =0.1	1
2.111	RC0603DR-0751K0L	Resistor	Quantity = 1,Applied Power =0.000213, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level B,Resistance = 51KΩ, Rated Power =0.1	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
2.112	RC0603DR-0751K0L	Resistor	Quantity = 1,Applied Power =0.000213, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 51K0, Rated Power =0.1	1
2.113	RC1206DR-071R00L	Resistor	Quantity = 1,Applied Power =0.00025, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1R, Rated Power =0.25	1
2.114	RC1206DR-071R00L	Resistor	Quantity = 1,Applied Power =0.00025, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1R, Rated Power = 0.25	1
2.115	RC1206DR-071R00L	Resistor	Quantity = 1,Applied Power =0.00025, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1R, Rated Power =0.25	1
2.116	RC1206DR-071R00L	Resistor	Quantity = 1,Applied Power =0.00025, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1R, Rated Power =0.25	1
2.117	RC1206DR-070R25L	Resistor	Quantity = 1,Applied Power =0.00018, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0.25R, Rated Power =0.25	1
2.118	RC1206DR-070R25L	Resistor	Quantity = 1,Applied Power =0.00018, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0.25R, Rated Power =0.25	1
2.119	RC1206DR-070R25L	Resistor	Quantity = 1,Applied Power =0.00018, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0.25R, Rated Power =0.25	1
2.120	RC1206DR-070R25L	Resistor	Quantity = 1,Applied Power =0.00018, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0.25R, Rated Power =0.25	1
2.121	CC0603KRX7R6B3106	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 10	1
2.122	CC0603KRX7R6B3106	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 10	1

Item	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
2.123	CC1206KRX7R8BB106	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 10uF, Rated Voltage = 25	1
2.124	CC1206KRX7R8BB106	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 10uF, Rated Voltage = 25	1
2.125	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 22uF, Rated Voltage = 25	1
2.126	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 22uF, Rated Voltage = 25	1
2.127	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 22uF, Rated Voltage = 25	1
2.128	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 22uF, Rated Voltage = 25	1
2.129	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 22uF, Rated Voltage = 25	1
2.130	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 22uF, Rated Voltage = 25	1
2.131	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 22uF, Rated Voltage = 25	1
2.132	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 22uF, Rated Voltage = 25	1
2.133	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 22uF, Rated Voltage = 25	1

Analyst : N Venkata Naga Aravind & Anupam Anand
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Approved By: R.Radhika.

Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
2.134	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
2.135	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
2.136	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
2.137	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
2.138	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
2.139	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
2.141	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
2.142	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
2.143	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
2.144	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1

Item	Part Number	Category Description	Application Parameters A0	Physical Parameters A0	Quantity
2.145	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
2.146	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
2.147	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
2.148	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
2.149	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
2.150	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
2.151	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
2.152	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
2.153	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
2.154	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
2.155	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1

Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
2.155	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 22uF, Rated Voltage = 25	1
2.157	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 22uF, Rated Voltage = 25	1
2.158	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 22uF, Rated Voltage = 25	1
2.159	CC0603JRX7R9BB101	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 100pF, Rated Voltage = 50	1
2.160	CC0603JRX7R9BB101	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 100pF, Rated Voltage = 50	1
2.161	CC0603JRX7R9BB101	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 100pF, Rated Voltage = 50	1
	CC0603JRX7R9BB101	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 100pF, Rated Voltage = 50	1
2.163	CC0603JRX7R9BB030	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 30pF, Rated Voltage = 50	1
2.164	CC0603JRX7R9BB030	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 30pF, Rated Voltage = 50	1
2.165	CC0603JRX7R9BB102	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 50	1
2.166	CC0603JRX7R9BB102	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 50	1

Analyst: N Venkata Naga Aravind & Anupam Anand
Compiled By: Shubham Kumar & V Jambulingam
Approved By: R.Radhika.

Name	Part Number	Category Description	Application parameters	Physical / Qualification parameters	Quantity
2.167	CC0603KX7R9BB102	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 50	1
2.168	CC0603KX7R9BB102	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 50	1
2.169	CC0603KX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
2.170	CC0603KX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
2.171	CC0603KX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
2.172	CC0603KX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
2.173	CC0603KX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
2.174	CC0603KX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
2.175	CC0603KX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
2.176	CC0603KX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
2.177	CC0603KX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1

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Approved By: R Radhika

Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
2.173	CC0603.RX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level C, Capacitance = 0.1uF, Rated Voltage = 50	1
2.179	CC0603.RX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level C, Capacitance = 0.1uF, Rated Voltage = 50	1
2.180	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level C, Capacitance = 0.1uF, Rated Voltage = 50	1
2.181	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level C, Capacitance = 0.1uF, Rated Voltage = 50	1
2.182	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level C, Capacitance = 0.1uF, Rated Voltage = 50	1
2.183	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level C, Capacitance = 0.1uF, Rated Voltage = 50	1
2.184	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level C, Capacitance = 0.1uF, Rated Voltage = 50	1
2.185	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level C, Capacitance = 0.1uF, Rated Voltage = 50	1
2.186	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level C, Capacitance = 0.1uF, Rated Voltage = 50	1
2.187	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level C, Capacitance = 0.1uF, Rated Voltage = 50	1
2.188	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level C, Capacitance = 0.1uF, Rated Voltage = 50	1

Name	Part Number	Category / Description	Application Parameters	Physical Parameters	Qty
2.189	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.190	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.191	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.192	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.193	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.194	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.195	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.196	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.197	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.198	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.199	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
2.200	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.201	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.202	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate) Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.203	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.204	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.205	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0 Capacitance = 0.1uF, Rated Voltage = 50	1
	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.207	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.208	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.209	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.210	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1

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Name	Part Number	Category Description	Applications Parameters	Physical Parameters	Quantity
2.211	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.212	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.213	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.214	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.215	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.216	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.217	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.218	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.219	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.220	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.221	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
2.222	CC0603JRX73980104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1uF, Rated Voltage = 50	1
2.223	CC0603JRX7R6BB224	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.22uF, Rated Voltage = 50	1
2.224	CC0603JRX7R6BB224	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.22uF, Rated Voltage = 50	1
2.225	CC1206JRX7R0BB105	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 1uF, Rated Voltage = 100	1
2.226	CC1206JRX7R0BB105	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 1uf, Rated Voltage = 100	1
	CC1206JRX7R0B9105	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 1uF, Rated Voltage = 100	1
	CC1206JRX7R0BB105	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 1uF, Rated Voltage = 100	1
2.229	CC1206JRX7R6BB103	Capacitor	Quantity = 1, Applied Voltage = 0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.01uF, Rated Voltage = 1000	1
2.230	CC1206JRX7R6BB103	Capacitor	Quantity = 1, Applied Voltage = 0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.01uF, Rated Voltage = 1000	1
2.231	532530470	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 4	1
2.232	532531670	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 6	1
2.233	532531670	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 2	1
2.234	532531670	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 3	1

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Name	Part Number	Category Description	Application Parameters	Physical Characteristics	Qty.
2.235	532531670	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 4	1
2.236	532531670	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 15	1
2.237	532530270	Connector	Quantity = 2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 2	2
2.238	532530270	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 2	1
2.239	532530770	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 7	1
2.240	532530870	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 8	1
2.241	5325308/0	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 8	1
2.242	532530870	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 8	1
2.243		Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate) Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 30	1
2.244	85545	Diode	Quantity = 6,Operating Current (in Amps) =0.001, Environment = Ground Fixed Uncontrolled (Moderate) Temperature =40	Device Type = TVS Surge Supressor, Quality Level C, Rated Current (in Amps) =0.02	6
2.245	1N5819HW-7-F	Diode	Quantity = 2,Operating Current (in Amps) =0.1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = TVS Surge Supressor, Quality = Level C, Rated Current (in Amps) = 1	2
2.246	5614	Diode	Quantity = 13,Operating Current (in Amps) =0.3, Applied Voltage =12,Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = Silicon ,General Purpose, Quality = Level 0, Rated Voltage =40,Rated Current (in Amps) =3	13
2.247	2SC2412	Transistor	Quantity = 1,Dissipated Power =0.0049,Applied Voltage =3.3, Environment = Ground Fixed Uncontrolled (Moderate) Temperature =40	Device Type = GERMANIUM, NPN, > 0.5 and < 5.0 w, Quality = Level 0,Rated Voltage = 7, Rated Power =1.05	1
2.248	AC340/	Transistor	Quantity = 1,Dissipated Power =0.0049,Applied Voltage =3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = GERMANIUM, NPN, > 0.5 and < 5.0 w, Quality = Level 0,Rated Voltage = 7, Rated Power =1.05	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
2.249	2SC2412	Transistor	Quantity = 1,Dissipated Power =0.0049,Applied Voltage =3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = GERMANIUM,NPN, > 0.6 and < 6.0 w, Quality = Level D,Rated Voltage = 7, Rated Power =1.05	1
2.250	2SC2412	Transistor	Quantity = 1,Dissipated Power =0.0049,Applied Voltage =3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = GERMANIUM,NPN, > 0.6 and < 6.0 w, Quality = Level D,Rated Voltage = 7, Rated Power =1.05	1
2.251	MMBTA55LT1	Transistor	Quantity = 1,Dissipated Power =0.6,Applied Voltage =3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = GERMANIUM,NPN > 0.6 and < 6.0 w, Quality = Level D,Rated Voltage = 60, Rated Power =0.6	1
2.252	ECS-8C-18-30Q-CES-TR	Crystal	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = CRYSTAL OSCIL,ATCR, Quartz Controlled, Quality = Level C	1
2.253	PT4115C	IC-Analog Device	Quantity = 2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = LED Driver PT4115/2227C, Quality = Level C , No of Transistors = 10-20	2
2.254	PT4115E	IC-Analog Device	Quantity = 2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = LED Driver PT4115/2227C, Quality = Level D , No of Transistors = 10-20	2
2.255	MP2359	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Step-Down Converter, Quality = Level D , No of Transistors = 20-50	1
2.256	MS3989	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Motor Driver MS3989, Quality = Level D , No of Transistors = 50-200	1
2.257	MAX4797FUA+T	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = RS 485 , Quality = Level C , No of Transistors = 20-40	1
2.258	BA10393F	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = SCP & IC, Quality = Level D , No of Transistors = 10-20	1
2.259	AT88SC0104C	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = SCP & IC, Quality = Level D , No of Transistors = Several thousand	1
2.260	BA10358	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Integrated circuit, Quality = Level D , No of Transistors = 20-30	1
2.261	MP2359	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Step-Down Converter, Quality = Level D , No of Transistors = 20-50	1
2.262	74HC02D	IC-Digital Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Technology = CMOS, No of Gates/Range = 4 , Quality = Level D	1
2.263	ATMLH231	IC-Digital Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Technology = CMOS, No.of Gates/Range = 4 , Quality = Level D	1

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2.264	ULN2003A	IC-Digital Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Technology = CMOS, No of Gates/Range = 4 , Quality = Level 0	1
2.265	STM32F103RCT6	IC-Microprocessor	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Technology = CMOS, Bus Width(in Bits) = 32bits,Quality = Level C	1
2.266	MPL-AY3020-4R7	Inductor	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Power Filter, Quality = Level C	1
2.267	B82477P4473M000	Inductor	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Power Filter, Quality = Level C	1
2.268	B82477P4473M000	Inductor	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Power Filter, Quality = Level C	1
2.269	B82477P4473M000	Inductor	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Power Filter, Quality = Level C	1
2.270	B82477P4473M000	Inductor	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Power Filter, Quality = Level C	1
3		Power Board			
3.1	RC0603DR-070R00L	Resistor	Quantity = 1,Applied Power = 0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Fil M (Carbon, Oxide, Metal), Quality = Level C,Resistance = 0Ω, Rated Power =0.1	1
3.2	RC0603DR-070R00L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Fil M (Carbon, Oxide, Metal), Quality = Level C Resistance = 0Ω, Rated Power =0.1	1
3.3	RC0603DR-070R00L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Fil M (Carbon, Oxide, Metal), Quality = Level C,Resistance = 0Ω, Rated Power =0.1	1
3.4	RC0603DR-070R00L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Fil M (Carbon, Oxide, Metal), Quality = Level C,Resistance = 0Ω, Rated Power =0.1	1
3.5	RC0603DR-070R00L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Fil M (Carbon, Oxide, Metal), Quality = Level C,Resistance = 0Ω, Rated Power =0.1	1
3.6	RC0603DR-070R00L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate) Temperature =40	Device Type = Fil M (Carbon, Oxide, Metal), Quality = Level C,Resistance = 0Ω, Rated Power =0.1	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
3.7	RC0603DR-070R00L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.1	1
3.8	RC0603DR-071K0L	Resistor	Quantity = 1,Applied Power =0.001089, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1KΩ, Rated Power =0.1	1
3.9	RC0603DR-071K0L	Resistor	Quantity = 1,Applied Power =0.0001, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1KΩ, Rated Power =0.1	1
3.10	RC0603DR-071K0L	Resistor	Quantity = 1,Applied Power =0.00025, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1KΩ, Rated Power =0.1	1
3.11	RC0603DR-071K0L	Resistor	Quantity = 1,Applied Power =0.00015, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1KΩ, Rated Power =0.1	1
3.12	RC0603DR-072K0L	Resistor	Quantity = 1,Applied Power =0.00066, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 2.2KΩ, Rated Power =0.1	1
	RC0603DR-072K2L	Resistor	Quantity = 1,Applied Power =0.00033, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 2.2KΩ, Rated Power =0.1	1
3.14	RC0603DR-072K0L	Resistor	Quantity = 1,Applied Power =0.00315, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 2KΩ, Rated Power =0.1	1
3.15	RC0603DR-073K0L	Resistor	Quantity = 1,Applied Power =0.0033, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 3KΩ, Rated Power =0.1	1
3.16	RC0603DR-074K7L	Resistor	Quantity = 1,Applied Power =0.0052, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.1	1
3.17	RC0603DR-073K3L	Resistor	Quantity = 1,Applied Power =0.0048, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 3.3KΩ, Rated Power =0.1	1

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Name	Part Number	Category Description	Application Parameters	Physical Parameters	Quantity
3.18	RC0603DR-0710K0L	Resistor	Quantity = 1,Applied Power =0.00055, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10KΩ, Rated Power =0.1	1
3.19	RC0603DR-074K70L	Resistor	Quantity = 1,Applied Power =0.00022, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.1	1
3.20	RC0603DR-074K70L	Resistor	Quantity = 1,Applied Power =0.00108, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.1	1
3.21	RC0603DR-074K70L	Resistor	Quantity = 1,Applied Power =0.00108, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.1	1
3.22	RC0603DR-0710K0L	Resistor	Quantity = 1,Applied Power =0.00072, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10KΩ, Rated Power =0.1	1
3.23	RC0603DR-0712K0L	Resistor	Quantity = 1,Applied Power =0.00033, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 12KΩ, Rated Power =0.1	1
3.24	RC0603DR-0710K0L	Resistor	Quantity = 1,Applied Power =0.000775 Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10KΩ, Rated Power =0.1	1
3.25	RC0603DR-0710K0L	Resistor	Quantity = 1,Applied Power =0.0011, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10KΩ, Rated Power =0.1	1
3.26	RL1206DR-0710K0L	Resistor	Quantity = 1,Applied Power =0.0036, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10KΩ, Rated Power =0.25	1
3.27	RLU603DR-0727K0L	Resistor	Quantity = 1,Applied Power =0.0018, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 27KΩ, Rated Power =0.1	1
3.28	RC0603DR-0763K4L	Resistor	Quantity = 1,Applied Power =0.0022, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 63.4KΩ, Rated Power =0.1	1

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Name	Part Number	Category/ Description	Application Parameters All	Physical Parameters All	Quantity
3.29	RC0603DR-0775R0L	Resistor	Quantity = 1,Applied Power =0.0013, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 75Ω, Rated Power =0.1	1
3.30	RC0603DR-0775R0L	Resistor	Quantity = 1,Applied Power =0.00103, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 75Ω, Rated Power =0.1	1
3.31	RC0603DR-0775R0L	Resistor	Quantity = 1,Applied Power =0.00103, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 75Ω, Rated Power =0.1	1
3.32	RC1206DR-0775R0L	Resistor	Quantity = 1,Applied Power =0.0013, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 75Ω, Rated Power =0.25	1
3.33	RC1206DR-0775R0L	Resistor	Quantity = 1,Applied Power =0.0013, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 75Ω, Rated Power =0.25	1
3.34	RC1206DR-0775R0L	Resistor	Quantity = 1,Applied Power =0.0013, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 75Ω, Rated Power =0.25	1
	RC1206DR-0775R0L	Resistor	Quantity = 1,Applied Power =0.0013, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 75Ω, Rated Power =0.25	1
3.36	RC1206DR-07100KL	Resistor	Quantity = 1,Applied Power =0.0089, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100kΩ, Rated Power =0.25	1
3.37	RC1206DR-07100KL	Resistor	Quantity = 1,Applied Power =0.0089, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100kΩ, Rated Power =0.25	1
3.38	RC0603DR-07100KL	Resistor	Quantity = 1,Applied Power =0.0033, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100kΩ, Rated Power =0.1	1
3.39	RC0603DR-07120KL	Resistor	Quantity = 1,Applied Power =0.00082, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 120kΩ, Rated Power =0.1	1

Name	Part Number	Category Description	Application Parameters ...	Physical Parameters ...	Quantity
3.40	RC0603DR-0715ORL	Resistor	Quantity = 1,Applied Power =0.00012, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 15Ω, Rated Power =0.1	1
3.41	RC1206DR-071K2L	Resistor	Quantity = 1,Applied Power =0.0079, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1.2kΩ, Rated Power =0.25	1
3.42	RC0603DR-0716K2L	Resistor	Quantity = 1,Applied Power =0.0034, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 16.2kΩ, Rated Power =0.1	1
3.43	RC0603DR-079K53L	Resistor	Quantity = 1,Applied Power =0.0014, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 9.53kΩ, Rated Power =0.1	1
3.44	RC0603DR-0749K9L	Resistor	Quantity = 1,Applied Power =0.0067, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 49.9kΩ, Rated Power =0.1	1
3.45	RC0603DR-0747ORL	Resistor	Quantity = 1,Applied Power =0.00054, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 470Ω, Rated Power =0.1	1
3.46	RL0603DR-0747ORL	Resistor	Quantity = 1,Applied Power =0.00078, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 470Ω, Rated Power =0.1	1
3.47	RC0603DR-0747ORL	Resistor	Quantity = 1,Applied Power =0.00019, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 470Ω, Rated Power =0.1	1
3.48	RSF1220GR1M05C	Capacitor	Quantity = 1, Applied Voltage = 24, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Aluminium, Electrolytic, Quality = Level 0,Capacitance = 680uf, Rated Voltage = 50	1
3.49	REF122S227M016	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Aluminium, Electrolytic, Quality = Level 0,Capacitance = 220uF, Rated Voltage = 16	1
3.50	REFC612220M1CC	Capacitor	Quantity = 1, Applied Voltage = 48, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Aluminium, Electrolytic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 100	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
3.51	REF1020J02M016	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Aluminium, Electrolytic, Quality = Level 0,Capacitance = 1000uF, Rated Voltage = 16	1
3.52	REF102U1J2M015	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Aluminium, Electrolytic, Quality = Level 0,Capacitance = 1000uF, Rated Voltage = 16	1
3.53	CC0603JRX7R6BB105	Capacitor	Quantity = 1, Applied Voltage = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 10	1
3.54	CC0603JRX7R6BB105	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 10	1
3.55	CC0603JRX7R9BB150	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 15pF, Rated Voltage = 50	1
3.56	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
3.58	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
3.59	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
3.60	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1
3.61	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22uF, Rated Voltage = 25	1

Name	Part Number	Category Description	Application Parameters	Physical Parameters	Quantity
3.62	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 22uF, Rated Voltage = 25	1
3.63	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 22uF, Rated Voltage = 25	1
3.64	CC1206JRX7R8BB225	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 22uF, Rated Voltage = 25	1
3.65	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 22uF, Rated Voltage = 25	1
3.66	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 22uF, Rated Voltage = 25	1
3.67	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 22uF, Rated Voltage = 25	1
3.68	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 22uF, Rated Voltage = 25	1
3.69	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 22uF, Rated Voltage = 25	1
3.70	CC1206JRX7R8BB226	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 22uF, Rated Voltage = 25	1
3.71	CC0603JRX7R9BB102	Capacitor	Quantity = 1, Applied Voltage = 24, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 100	1
3.72	CC1206JRX7R7BB103	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.01uF, Rated Voltage = 1000	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
3.73	CC1206JRX7R7BB103	Capacitor	Quantity = 1, Applied Voltage = 0, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.01uF, Rated Voltage = 1000	1
3.74	CC1206JRX7R7BB103	Capacitor	Quantity = 1, Applied Voltage = 0, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.01uF, Rated Voltage = 1000	1
3.75	CC1206JRX7R7BB103	Capacitor	Quantity = 1, Applied Voltage = 0, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.01uF, Rated Voltage = 1000	1
3.76	CC1206JRX7R7BB103	Capacitor	Quantity = 1, Applied Voltage = 0, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.01uF, Rated Voltage = 1000	1
3.77	CC1206JRX7R7BB103	Capacitor	Quantity = 1, Applied Voltage = 0, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.01uF, Rated Voltage = 1000	1
3.78	CC1206JRX7R7BB103	Capacitor	Quantity = 1, Applied Voltage = 0, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.01uF, Rated Voltage = 1000	1
	CC1206JRX7R7BB103	Capacitor	Quantity = 1, Applied Voltage = 0, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.01uF, Rated Voltage = 1000	1
3.80	CC0603JRX7R9BB103	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.01uF, Rated Voltage = 50	1
3.81	CC0603JRX7R9BB103	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.01uF, Rated Voltage = 50	1
3.82	CC0603JRX7R9BB103	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.01uF, Rated Voltage = 50	1
3.83	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1

Name	Part Number	Category Description	Application Parameters (All)	Physical Parameters (All)	Quantity
3.84	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
3.85	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
3.86	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
3.87	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
3.88	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
3.89	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
3.90	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
3.91	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
3.92	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
3.93	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1
3.94	CC0603JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 50	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
3.95	CC0603JRX7R9BB105	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1uF, Rated Voltage = 50	1
3.96	CC0603JRX7R9BB105	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1uF, Rated Voltage = 50	1
3.97	CC0603JRX7R0BB105	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1uF, Rated Voltage = 50	1
3.98	CC1206JRX7R9BB105	Capacitor	Quantity = 1, Applied Voltage = 24, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1uF, Rated Voltage = 100	1
3.99	CC0603JRX7R9BB221	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 220pF, Rated Voltage = 50	1
3.100	CC0603JRX7R9BB224	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.22uF, Rated Voltage = 50	1
3.101	CC0603JRX7R8BB225	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 2.2uF, Rated Voltage = 25	1
3.102	CC1206JRX7R9BB225	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 2.2uF, Rated Voltage = 50	1
3.103	CC1206JRX7R9BB225	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 2.2uF, Rated Voltage = 50	1
3.104	CC1206JRX7R9BB225	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 2.2uF, Rated Voltage = 50	1
3.105	CC1206JRX7R9BB225	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 2.2uF, Rated Voltage = 50	1

Number	Part Number	Category Description	Application Parameters (A)	Physical Parameters	Quantity
3.105	CC1206JRX7R5BB225	Capacitor	Quantity = 1, Applied Voltage = 12, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level C, Capacitance = 2.2uF, Rated Voltage = 50	1
3.107	CC0603JRX7R7BB475	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level C, Capacitance = 4.7uF, Rated Voltage = 16	1
3.108	CC0603JRX7R9BB821	Capacitor	Quantity = 1, Applied Voltage = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level C, Capacitance = 820pF, Rated Voltage = 50	1
3.109	CC0603JRX7R0BB104	Capacitor	Quantity = 1, Applied Voltage = 24, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level C, Capacitance = 0.1uF, Rated Voltage = 100	1
3.110	CC0603JRX7R0BB104	Capacitor	Quantity = 1, Applied Voltage = 24, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level C, Capacitance = 0.1uF, Rated Voltage = 100	1
3.111	CC0603JRX7R0BB104	Capacitor	Quantity = 1, Applied Voltage = 24, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level C, Capacitance = 0.1uF, Rated Voltage = 100	1
3.112	CC0603JRX7R0BB104	Capacitor	Quantity = 1, Applied Voltage = 24, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level C, Capacitance = 0.1uF, Rated Voltage = 100	1
3.113	532530870	Connector	Quantity = 2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 6	2
3.114	532530470	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 4	1
3.115	532530870	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 8	1
3.116	1744057-3	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 3	1
3.117	532530270	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 2	1
3.118	532530870	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Multi Pin, Quality = Level 0, No of Pins = 8	1
3.119	532531670	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Multi Pin, Quality = Level 0, No of Pins = 16	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
3.120	BB545	Diode	Quantity = 4,Operating Current(in Amps) =0.001, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = TVS Surge Supressor, Quality = Level 0, Rated Current(in Amps) =0.02	4
3.121	SM3J58(C)A	Diode	Quantity = 3,Operating Current(in Amps) =0.1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = TVS Surge Supressor, Quality = Level C, Rated Current(in Amps) =6.4	3
3.122	SS310-HF	Diode	Quantity = 1,Operating Current(in Amps) =2, Applied Voltage =24,Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Silicon ,General Purpose, Quality = Level 0, Rated Voltage =100,Rated Current(in Amps) =80	1
3.123	1N5819HW	Diode	Quantity = 1,Operating Current(in Amps) =0.001, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Voltage Regulator, Quality = Level 0, Rated Current(in Amps) =0.02	1
3.124	BZT52C5V6	Diode	Quantity = 1,Operating Current(in Amps) =0.01, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Voltage Regulator, Quality = Level 0, Rated Current(in Amps) =0.055	1
3.125	BZT52C5V6	Diode	Quantity = 1,Operating Current(in Amps) =0.01, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Voltage Regulator, Quality = Level 0, Rated Current(in Amps) =0.059	1
	V10P10	Diode	Quantity = 1,Operating Current(in Amps) =2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Voltage Regulator, Quality = Level 0, Rated Current(in Amps) =10	1
3.127	V10P10	Diode	Quantity = 1,Operating Current(in Amps) =2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Voltage Regulator, Quality = Level 0, Rated Current(in Amps) =10	1
3.128	5.0SMDJ58CA	Diode	Quantity = 3,Operating Current(in Amps) =0.1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = TVS Surge Supressor, Quality = Level 0, Rated Current(in Amps) =33.5	3
3.129	TL431	Diode	Quantity = 1,Operating Current(in Amps) =0.03, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Voltage Regulator, Quality = Level 0, Rated Current(in Amps) =0.1	1
3.130	KBL210	Diode	Quantity = 1,Operating Current(in Amps) =2, Applied Voltage =24,Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Silicon ,General Purpose, Quality = Level 0, Rated Voltage =1000V,Rated Current(in Amps) =4	1

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3.131	[illegible]	[illegible]	Quantity = 1,Operating Current(in Amps)=0.1, Applied Voltage=0.5,Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Silicon ,Construction = [illegible] Quality = Level 0, Rated Voltage = 100V, Rated Current(in Amps) = 0.2	1
3.132	[illegible]	Diode	Quantity = 2,Operating Current(in Amps)=0.1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Voltage Regulator, Construction = [illegible] Level = Rated Current(in Amps) = 0.1	2
3.133	[illegible]4007W	[illegible]	Quantity = 5,Operating Current(in Amps)=0.1, Applied Voltage =0.3,Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Silicon ,Construction = [illegible], Quality = Level 0, Rated Voltage =1000V, Rated Current(in Amps) = 1A	5
3.134	TS0201 : Dr5V100	Diode	Quantity = 4,Operating Current(in Amps)=0.1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = TVS Surge Suppressor , Quality = Level C, Rated Current(in Amps) =20	4
3.135	KTA1137A	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = KTA1137A Pot [illegible] Integrated DC-DC Controller , Quality = Level 0, No of Transistors = 50-150	1
3.136	MPS2359	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = MPS -2359, Quality = Level 0, No of Transistors = 20-50	1
3.137	AMS1117	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = AMS1117 VOLTAGE REGULOR, Quality = Level 0, No of Transistors = 20-50	1
3.138	IC MS1682 JDGS	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = IC MS1682 JDGS, Quality = Level 0, No of Transistors = 50-150	1
3.139	SG75	Miscellaneous Devices	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = SURGE ARRESTOR SMD / GAS DISCHARGE TUBE, Quality = Level 0	1
3.140	JK30 600	Miscellaneous Devices	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FUSE, < 50A, Quality = Level 0	1
3.141	100870K	Miscellaneous Devices	Quantity = 4, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = CIRCUIT BREAKER, Protection-Only Application (per pole), Quality = Level 0	4
3.142	SG75	Miscellaneous Devices	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = SURGE ARRESTOR SMD / GAS DISCHARGE TUBE, Quality = Level 0	1
3.143	SH145	Miscellaneous Devices	Quantity = 9, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = SURGE ARRESTOR SMD / GAS DISCHARGE TUBE, Quality = Level 0	9

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
3.144		Miscellaneous Devices	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type =FAN , Quality = Level 0	1
3.145		Miscellaneous Devices	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = Power Supply , Quality = Level 0	1
3.146		Miscellaneous Devices	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = MOTOR , Quality = Level 0	2
3.147	MPL-AY3020-4R7	Inductor	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Power Filter, Quality = Level 0	1
3.148	MPL-AY3020-4R7	Inductor	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Power Filter, Quality = Level 0	1
3.149	SC-15-10J	Inductor	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Power Filter, Quality = Level 0	1
3.150	B113-RC	Inductor	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Power Filter, Quality = Level 0	1
3.151	TRC1102NL	Transformer	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Pulse High Level (≥ 5V), Quality = Level 0	1
3.152	EFD2087SR	Transformer	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Pulse High Level (≥ 5V), Quality = Level 0	1
3.153	FDPD75N15A	Transistor	Quantity = 2, Dissipated Power =0.0049, Applied Voltage =3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = GERMANIUM, NPN ≥ 0.6 and < 5.0 W , Quality = Level 0, Rated Voltage = 3, Rated Power =1.05	2
3.154		Switch	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Push Switch, Quality = Level 0	1
3.155	HRB1-S-DC12V	Relay	Quantity = 1, Contact Current(in Amps) =2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =40	Device Type = Latching, Quality = Level 0, Rated Current(in Amps) =2	1
4		Sensor Board			
4.1	RC0402JR-0705	Resistor	Quantity = 1, Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =30	Device Type = [illegible], Quality = Level 3, Resistance = 0Ω, Rated Power =0.0625	1
4.2	RC0402JR-0705L	Resistor	Quantity = 1, Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate), Temperature =30	Device Type = [illegible], Quality = Level 3, Resistance = 0Ω, Rated Power =0.0625	1

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Item#	Part Number	Category Description	Application Parameters [1]	Physical Parameters [2]	Quantity
4.3	RC0402JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.0625	1
4.4	RC0805JR-070RL	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.125	1
4.5	RC0805JR-07C3L	Resistor	Quantity = 1,Applied Power =0, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0Ω, Rated Power =0.125	1
4.6	RC0402DR-0733ORL	Resistor	Quantity = 1,Applied Power =0.0000675, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 330Ω, Rated Power =0.0625	1
4.7	RC0402DR-0733ORL	Resistor	Quantity = 1,Applied Power =0.0000675, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 330Ω, Rated Power =0.0625	1
4.8	RC04C2DR-0710K	Resistor	Quantity = 1,Applied Power =0.000108, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10kΩ, Rated Power =0.0625	1
4.9	RC0402DR-0751KL	Resistor	Quantity = 1,Applied Power =0.000213, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 51KΩ, Rated Power =0.0625	1
4.10	RC0402DR-0751KL	Resistor	Quantity = 1,Applied Power =0.000213, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 51KΩ, Rated Power =0.0625	1
4.11	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000231, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
4.12	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000231, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
4.13	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000231, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
4.14	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000231, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality - Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
4.15	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000231, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality - Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
4.16	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000231, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality - Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
4.17	RC0402DR-074K7L	Resistor	Quantity = 1,Applied Power =0.000231, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7KΩ, Rated Power =0.0625	1
4.18	CC0603KRX5R6BB1C6	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 10	1
4.19	CC0603KRX5R8BB1C6	Capacitor	Quantity = 1, Applied Voltage = 2.8, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
	CC0603KRX5R6BB1C5	Capacitor	Quantity = 1, Applied Voltage = 2.9, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
4.21	CC0603KRX5R6BB106	Capacitor	Quantity = 1, Applied Voltage = 1.7, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 10	1
4.22	CC0603KRX5R5BB106	Capacitor	Quantity = 1, Applied Voltage = 2.9, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
4.23	CC0603KRX5R6BB10E	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1
4.24	CC0603KRX5R6BB1O6	Capacitor	Quantity = 1, Applied Voltage = 2.9, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10uF, Rated Voltage = 25	1

Name	Part Number	Category Description	Application Parameters (V)	Physical Parameters (V)	Quantity
4.25	CC0503KRX5R6BB105	Capacitor	Quantity = 1, Applied Voltage = 2.9, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1uF, Rated Voltage = 25	1
4.26	CC0503KRX5R6BB105	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1uF, Rated Voltage = 25	1
4.27	CC0603KRX5R6BB106	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 10uF, Rated Voltage = 25	1
4.28	CC0603KRX5R6BB106	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 10uF, Rated Voltage = 25	1
4.29	CC0603KRX5R6BB106	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 10uF, Rated Voltage = 25	1
4.30	CC0603KRX5R6BB106	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 10uF, Rated Voltage = 25	1
4.31	CC0402KRX7R6BB104	Capacitor	Quantity = 1, Applied Voltage = 2.9, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 25	1
4.32	CC0402KRX7R6BB104	Capacitor	Quantity = 1, Applied Voltage = 2.9, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 25	1
4.33	CC0402KRX7R6BB104	Capacitor	Quantity = 1, Applied Voltage = 2.9, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 25	1
4.34	CC0402KRX7R6BB104	Capacitor	Quantity = 1, Applied Voltage = 2.9, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 25	1
4.35	CC0402KRX7R6BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 10	1

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Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
4.36	CC0402JRX7R6BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 10	1
4.37	CC0402JRX7R6BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 10	1
4.38	CC0402JRX7R6BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 10	1
4.39	CC0402JRX7R6BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 10	1
4.40	CC0402JRX7R6BB104	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 10	1
4.41	CC0402JRX7R6BB104	Capacitor	Quantity = 1, Applied Voltage = 1.8, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 10	1
	CC0402JRX7R8BB104	Capacitor	Quantity = 1, Applied Voltage = 3.6, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 25	1
4.43	CC0402JRX7R8BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 10	1
4.44	CC0402JRX7R8BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 25	1
4.45	CC0402JRX7R8BB104	Capacitor	Quantity = 1, Applied Voltage = 2.9, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 25	1
4.46	CC0402JRX7R6BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 10	1

Name	Part Number	Category Description	Application Parameters ##	Physical Parameters ##	Quantity
4.47	CC0402JRX7R6BB104	Capacitor	Quantity = 1, Applied Voltage = 1.7, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 10	1
4.48	CC0402JRX7R6BB104	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 10	1
4.49	CC0402JRX7R8BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 25	1
4.50	CC0402JRX7R8BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 25	1
4.51	CC0402JRX7R8BB104	Capacitor	Quantity = 1, Applied Voltage = 2.9, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 25	1
4.52	CC0402JRX7R8BB104	Capacitor	Quantity = 1, Applied Voltage = 2.9, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 25	1
4.53	CC0402JRX7R8BB104	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 25	1
4.54	CC0402JRX7R8BB104	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 25	1
4.55	CC0402JRX7R8BB104	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 25	1
4.56	CC0402JRX7R9BB104	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.1uF, Rated Voltage = 25	1
4.57	CC0402JRX7R9BB103	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 0.01uF, Rated Voltage = 50	1

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Approved By: R.Radhika

Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
4.58	CC0402JRX7R9BB103	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality Level 0, Capacitance = 0.01uF, Rated Voltage = 50	1
4.59	CC0402JRX7R9BB102	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 50	1
4.60	CC0402JRX7R9BB102	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 50	1
4.61	CC0402JRX7R9BB102	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 50	1
4.62	CC0402JRX7R9BB102	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 50	1
4.63	CC0402KRX5R7BB475	Capacitor	Quantity = 1, Applied Voltage = 1.2, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 4.7uF, Rated Voltage = 16	1
	CC0402JRX7R9BB121	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 120F, Rated Voltage = 50	1
4.65	CC0402JRX7R9BB121	Capacitor	Quantity = 1, Applied Voltage = 3.3, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 12pF, Rated Voltage = 50	1
4.66	CC1206JRX7R9BB102	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 2000	1
4.67	CC1206JRX7R9BB102	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 2000	1
4.68	CC1206JRX7R9BB102	Capacitor	Quantity = 1, Applied Voltage = 5, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Fixed, Ceramic, Quality = Level 0, Capacitance = 1000pF, Rated Voltage = 2000	1
4.69		Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate), Temperature = 40	Device Type = Mult -Pin, Quality = Level 0, No of Pins = 36	1

Name	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
4.70		Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 24	1
4.71	830108207309	Crystal	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = QUARTZ CRYSTAL, Quality = Level 0	1
4.72	TLV70218DBVR	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = 300-mA, Low-Dropout Regulator, Quality = Level 0, No of Transistors = 20-50	1
4.73	TLV70212DBVR	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = 300-mA, Low-Dropout Regulator, Quality = Level 0, No of Transistors = 20-50	1
4.74	TLV70229DBVR	IC Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = 300-mA, Low-Dropout Regulator, Quality = Level 0, No of Transistors = 20-50	1
4.75	M541929	IC-Digital Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Technology = CMOS, No.of Gates/Range = 1 , Quality = Level 0	1
4.76	MX335	IC-Digital Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Technology = CMOS, No.of Gates/Range = 1 , Quality = Level 0	1

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MTBF

(MODEL NO. - SC-IND22XP-I(Z)(S))

EFKON INDIA PVT. LTD.

Report on

RELIABILITY PREDICTION

OF

IP Camera Model No.: SC-IND22XP-I(Z)(S)

ETDC MeitY
28 DEC 2023
GOVT. OF INDIA - CHENNAI-41

CENTRE FOR RELIABILITY,
STQC DIRECTORATE
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY (MeitY)
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TERMS AND CONDITIONS

1. This report refers only to the sample actually subjected to Reliability/Failure Analysis.
2. The analysis report provided is solely based on a theoretical estimation for predicting reliability.
3. The accuracy and validity of the reliability prediction cannot be guaranteed due to its theoretical nature.
4. The analysis report should be used for informational purposes only and should not be solely relied upon for making critical decisions.
5. The analysis report issued by the Centre is not to be used for any legal purposes and shall not be produced in the court of Law.
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16. The responsibility of confirming the correctness of the performance of the product is of the client and NOT that of the Centre. The Centre has only checked the Reliability/Failure of the product assuming that the performance/functionality are correct and appropriate.
17. In case of any disputes, the decision of the Director, CFR, Chennai shall be final and binding.

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2.0 INTRODUCTION

This report presents the results of Reliability Prediction Analysis performed on **IP Camera Model No.: SC-IND22XP-I(Z)(S)** as per MIL-HDBK-217F (Notice-2) as depicted in Figure 1.0 and Figure 2.0 . This exercise was performed under **Ground Fixed** environment as requested by M/s **Samriddhi Automations Pvt. Ltd., PLOT NO. 75, Sector – 7, IIE SIDCUL, HARIDWAR – 249403.**

Reliability Prediction is the process of quantitatively assessing whether a proposed or actual equipment design will meet a specified reliability requirement. Reliability Prediction has various applications in the design and development process including substantiating quantitative design comparisons with competitive products, selecting warranty periods, advertising and marketing. It provides guidance, relative to expected inherent reliability of a given design.



Figure 1.0

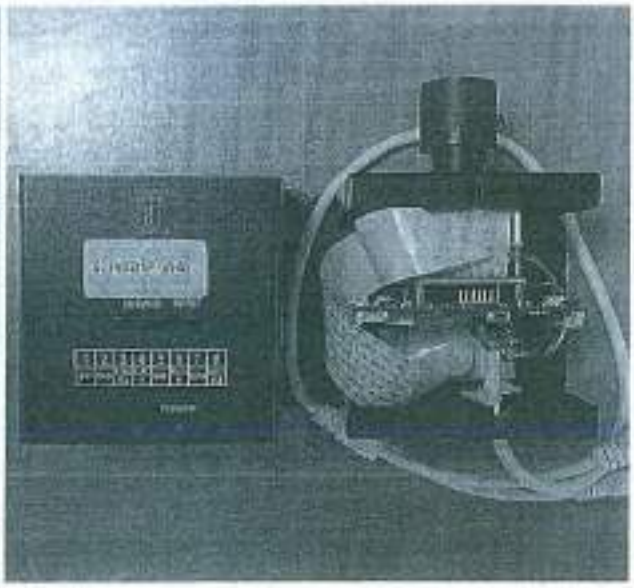


Figure 2.0

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3.0 APPLICABLE DOCUMENTS AND TOOLS

MIL-HDBK-217F Notice-2	- Reliability Prediction of Electronic Equipment
MILSTRESS	- Reliability Prediction Software Package based on MIL-HDBK-217F (Notice -2)
NPRD-91	- Non-Electronic Parts Reliability Data

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4.0 RELIABILITY PREDICTION OBJECTIVES

Objectives of this analysis are to estimate the Mean Time between Failure (MTBF) of **IP Camera Model No.: SC-IND22XP-I(Z)(S)** using MIL-HDBK-217F, NOTICE-2 and to obtain quantitative design information as applicable. The main objectives are:

a. Obtain feasibility evaluation

b. Provide feedback for designers

c. Identify potential problem areas during design review

d. Provide MTBF of the system and subassemblies and failure rate of system/subassemblies/ Components

5.0 MIL-HDBK-217F MODEL - ASSUMPTIONS

Reliability Prediction using MIL-HDBK-217F assumes a serial relationship between parts of the system, in which, failure of any part constitutes system failure. The model also assumes that

a. All the parts are in the constant failure rate portion of their lifetime.

b. Infant mortalities have been removed by component screening, electrical test, burn-in, etc.

c. Wear-out has not been reached.

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6.0 PARTS STRESS METHOD:

Parts Stress Analysis (PSA) is one of the very accurate method of prediction which provides an estimate of reliability based on part (resistors, capacitors, inductors, active devices etc.) stress data.

It takes besides other information, the following parameters into account:

6.0.1 Number of component of each Type.

6.0.2 Component base failure rate.

6.0.3 Temperature factor.

6.0.4 Environmental factor.

6.0.5 Quality factor.

6.0.6 Complexity factor, Package factor etc.

6.0.7 Power Stress

6.0.8 Voltage Stress

6.0.9 Current Stress

6.0.10 Learning Factor etc.

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7.0 ENVIRONMENTAL CONDITIONS

7.1 STORAGE AND OPERATIONAL ENVIRONMENT

The Reliability Prediction has been performed using **GROUND FIXED** Environment based on the operational conditions of **IP Camera Model No.: SC-IND22XP-I(Z)(S).**

GROUND FIXED:

Moderately controlled environments such as installation in permanent racks with adequate cooling air and possible installation in unheated buildings; includes permanent installation of air traffic control air traffic control radar and communication facilities.

TEMPERATURE

Reliability Prediction has been performed on **IP Camera Model No.: SC-IND22XP-I(Z)(S)** at the **Ambient Temperature of 40 deg C and 25 deg C for Ground Fixed Environment.**

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8.0 REPORTS

MIL-217 Parts List Report
It gives the overall parts list that go into the blocks. It consists of component description, category description, part name, circuit reference, quantity and part number information.

MIL-217 Failure Rate Report
It consists of component level, failure rate report. This list of components, its reference, description, type, quantity, and failure rates are indicated. It gives percentage contribution of the block/sub blocks components towards the total system failure rate.

MIL-217 Pi Factors Report
It consists of lists of component description, type, environment, quality, quantity, component specific parameters & their values and failure rates. The Stress Pi factors for each component are shown in the report.

MIL-217 Parameters Report
It consists of lists of components Physical and Application Parameters.

The above 4 reports are enclosed as Annexure I, II, III, IV

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9.0 System Analysis Summary

The overall MTBF and Failure Rate of **IP Camera Model No.: SC-IND22XP-I(Z)(S), submitted for reliability prediction analysis by M/s** Sunriddhi Automations Pvt. Ltd. are summarized as follows:

SYSTEM : **IP Camera**
Model No.: SC-IND22XP-I(Z)(S)

Environment	Ambient Temperature	FAILURE RATE (failure per million hours)	MTBF (hours)
GROUND FIXED	40°C	9.7008247	103084.02
GROUND FIXED	25°C	7.2192492	138518.56

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(27 Pages)

Annexure- I

PARTS LIST REPORT

(Temperature 40℃)

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MIL- HDBK - 217F PART LIST REPORT

Name: SC-IND22XP-I(ZHS)
Failure Rate: 9.7008247
MTBF: 103054.02

Name	Category Description	Description	Quantity
1	Block	Block,Image Sensor IMX335	1
1.1	IA, Surface Mount Tech	IA, Surface Mount Tech	1
1.1.1	Resistor	Resistor,R11,4.99K?±1% 0402	1
1.1.2	Resistor	Resistor,R12,4.99K?±1% 0402	1
1.1.3	Resistor	Resistor,R71,10K?±5% 0402	1
1.1.4	Resistor	Resistor,R73,10K?±5% 0402	1
1.1.5	Resistor	Resistor,R75,10K?±5% 0402	1
1.1.6	Resistor	Resistor,R188,10K?±5% 0402	1
1.1.7	Resistor	Resistor,R191,10K?±5% 0402	1
1.1.8	Resistor	Resistor,R197,10K?±5% 0402	1
1.1.9	Resistor	Resistor,R202,10K?±5% 0402	1
1.1.10	Resistor	Resistor,R201,10K?±5% 0402	1

Analyst : N.Venkata Naga Aravind:
Compiled By:V Jambulingam:
Approved By: R.Radhika:

Name	Category Description	Description	Quantity
1.1.11	Resistor	Resistor,RT19,4.7K?±5% 0402	1
1.1.12	Resistor	Resistor,R303,2K?±1% 0402	1
1.1.13	Resistor	Resistor,R305,2K?±1% 0402	1
1.1.14	Resistor	Resistor,RT21,1K?±1% 0402	1
1.1.15	Resistor	Resistor,RT23,1K?±1% 0402	1
1.1.16	Resistor	Resistor,RT15,1K?±1% 0402	1
1.1.17	Resistor	Resistor,RT16,1K?±1% 0402	1
1.1.18	Resistor	Resistor,R1,0?±5% 0402	1
1.1.19	Resistor	Resistor,R413,0?±5% 0402	1
1.1.20	Resistor	Resistor,R420,0?±5% 0402	1
1.1.21	Resistor	Resistor,R421,0?±5% 0402	1
1.1.22	Resistor	Resistor,R422,0?±5% 0402	1
1.1.23	Resistor	Resistor,R423,0?±5% 0402	1
1.1.24	Resistor	Resistor,R424,0?±5% 0402	1
1.1.25	Resistor	Resistor,R425,0?±5% 0402	1

Analyst : N.Venkata Naga Aravind.
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Name	Category Description	Description	Quantity
1.1.26	Resistor	Resistor,R194,0?±5% 0402	1
1.1.27	Resistor	Resistor,R72,0?±5% 0402	1
1.1.28	Resistor	Resistor,R717,0?±5% 0402	1
1.1.29	Resistor	Resistor,RT18,0?±5% 0402	1
1.1.30	Resistor	Resistor,FB1,0?±5% 0402	1
1.1.31	Resistor	Resistor,FB2,0?±5% 0402	1
1.1.32	Resistor	Resistor,FB3,0?±5% 0402	1
1.1.33	Resistor	Resistor,FB4,0?±5% 0402	1
1.1.34	Resistor	Resistor,BL1 0?±5% 0402	1
1.1.35	Resistor	Resistor,R2,0?±5% 0402	1
1.1.36	Resistor	Resistor,R3,0?±5% 0402	1
1.1.37	Resistor	Resistor,R210,0?±5% 0402	1
1.1.38	Resistor	Resistor,R211,0?±5% 0402	1
1.1.39	Resistor	Resistor,R212,0?±5% 0402	1
1.1.40	Resistor	Resistor,R213,0?±5% 0402	1

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Name	Category Description	Description	Quantity
1.1.41	Resistor	Resistor,R214,0?±5% 0402	1
1.1.42	Resistor	Resistor,R215,0?±5% 0402	1
1.1.43	Resistor	Resistor,R216,0?±5% 0402	1
1.1.44	Resistor	Resistor,R219,0?±5% 0402	1
1.1.45	Capacitor	Capacitor,C65,22pF±5% 50V NP0 0402	1
1.1.46	Capacitor	Capacitor,C66,22pF±5% 50V NP0 0402	1
1.1.47	Capacitor	Capacitor,CT2,1000pF±10% 50V X7R 0402	1
1.1.48	Capacitor	Capacitor,C25,0.22uF±10% 50V X7R 0402	1
1.1.49	Capacitor	Capacitor,C1,1uF±10% 50V X5R 0402	1
1.1.50	Capacitor	Capacitor,C28,1uF±10% 50V X5R 0402	1
1.1.51	Capacitor	Capacitor,C350,2.2uF±10% 50V X5R 0603	1
1.1.52	Capacitor	Capacitor,C352,2.2uF±10% 50V X5R 0603	1
1.1.53	Capacitor	Capacitor,C357,2.2uF±10% 50V X5R 0603	1
1.1.54	Capacitor	Capacitor,C2,10uF±10% 35V X5R 0603	1
1.1.55	Capacitor	Capacitor,C4,10uF±10% 35V X5R 0603	1

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Name	Category Description	Description	Quantity
1.1.56	Capacitor	Capacitor,C5,10uF±10% 35V X5R 0603	1
1.1.57	Capacitor	Capacitor,C10,10uF±10% 35V X5R 0603	1
1.1.58	Capacitor	Capacitor,C13,10uF±10% 35V X5R 0603	1
1.1.59	Capacitor	Capacitor,C15,10uF±10% 35V X5R 0603	1
1.1.60	Capacitor	Capacitor,C22,10uF±10% 35V X5R 0603	1
1.1.61	Capacitor	Capacitor,C29,10uF±10% 35V X5R 0603	1
1.1.62	Capacitor	Capacitor,C30,10uF±10% 35V X5R 0603	1
1.1.63	Capacitor	Capacitor,C44,10uF±10% 35V X5R 0603	1
1.1.64	Capacitor	Capacitor,C48,10uF±10% 35V X5R 0603	1
1.1.65	Capacitor	Capacitor,C74,10uF±10% 35V X5R 0603	1
1.1.66	Capacitor	Capacitor,C76,10uF±10% 35V X5R 0603	1
1.1.67	Capacitor	Capacitor,C78,10uF±10% 35V X5R 0603	1
1.1.68	Capacitor	Capacitor,C85,10uF±10% 35V X5R 0603	1
1.1.69	Capacitor	Capacitor,C92,10uF±10% 35V X5R 0603	1
1.1.70	Capacitor	Capacitor,C98,10uF±10% 35V X5R 0603	1

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Analyst : N.Venkata Naga Aravind
Compiled By V..Ramakrishnam
Approved By: R.Radhika.

Name	Category Description	Description	Quantity
1.1.71	Capacitor	Capacitor,C161,10uF±10% 35V X5R 0603	1
1.1.72	Capacitor	Capacitor,C358,10uF±10% 35V X5R 0603	1
1.1.73	Capacitor	Capacitor,C208,10uF±10% 35V X5R 0603	1
1.1.74	Capacitor	Capacitor,C14,0.1uF±10% 50V X7R 0402	1
1.1.75	Capacitor	Capacitor,C16,0.1uF±10% 50V X7R 0402	1
1.1.76	Capacitor	Capacitor,C18,0.1uF±10% 50V X7R 0402	1
1.1.77	Capacitor	Capacitor,C19,0.1uF±10% 50V X7R 0402	1
1.1.78	Capacitor	Capacitor,C20,0.1uF±10% 50V X7R 0402	1
1.1.79	Capacitor	Capacitor,C21,0.1uF±10% 50V X7R 0402	1
1.1.80	Capacitor	Capacitor,C23,0.1uF±10% 50V X7R 0402	1
1.1.81	Capacitor	Capacitor,C24,0.1uF±10% 50V X7R 0402	1
1.1.82	Capacitor	Capacitor,C26,0.1uF±10% 50V X7R 0402	1
1.1.83	Capacitor	Capacitor,C27,0.1uF±10% 50V X7R 0402	1
1.1.84	Capacitor	Capacitor,C31,0.1uF±10% 50V X7R 0402	1
1.1.85	Capacitor	Capacitor,C32,0.1uF±10% 50V X7R 0402	1

Analyst : N Venkata Naga Aravind;
Compiled By:V.Jambulingam;
Approved By: R.Radhika;

Name	Category Description	Description	Quantity
1.1.86	Capacitor	CapacitorC33,0.1uF±10% 50V X7R 0402	1
1.1.87	Capacitor	CapacitorC34,0.1uF±10% 50V X7R 0402	1
1.1.88	Capacitor	CapacitorC35,0.1uF±10% 50V X7R 0402	1
1.1.89	Capacitor	CapacitorC36,0.1uF±10% 50V X7R 0402	1
1.1.90	Capacitor	Capacitor,C37,0.1uF±10% 50V X7R 0402	1
1.1.91	Capacitor	Capacitor,C38,0.1uF±10% 50V X7R 0402	1
1.1.92	Capacitor	Capacitor,C39,0.1uF±10% 50V X7R 0402	1
1.1.93	Capacitor	Capacitor,C40,0.1uF±10% 50V X7R 0402	1
1.1.94	Capacitor	Capacitor,C41,0.1uF±10% 50V X7R 0402	1
1.1.95	Capacitor	Capacitor,C42,0.1uF±10% 50V X7R 0402	1
1.1.96	Capacitor	Capacitor,C43,0.1uF±10% 50V X7R 0402	1
1.1.97	Capacitor	Capacitor,C45,0.1uF±10% 50V X7R 0402	1
1.1.98	Capacitor	Capacitor,C46,0.1uF±10% 50V X7R 0402	1
1.1.99	Capacitor	Capacitor,C49,0.1uF±10% 50V X7R 0402	1
1.1.100	Capacitor	Capacitor,C75,0.1uF±10% 50V X7R 0402	1

Analyst : N.Venkata Naga Aravind:
Compiled By V.Jambulingam:
Approved By: A Radhika

Name	Category Description	Description	Quantity
1 1.101	Diode, Low Frequency	Diode, Low Frequency,D1,Schottky Barrier Diode	1
1.1.102	Quartz Crystal	Quartz Crystal,X2,24MHz,SMD 3.2*2.5mm,20pF,±20PPM	1
1.1.103	Connector, General	Connector, General,J2,Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1
1.1.104	Connector, General	Connector, General,J6,Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1
1 1 105	Connector, General	Connector, General,J1,Conn, B2C,TB, Male, 1x4, 1 25mm, SMD	1
1.1 106	Connector, General	Connector, General,J5,Conn, B2C,TB, Male, 1x8 1.25mm, SMD	1
1.1.107	Connector, General	Connector, General,J3,0.5mm FFC/FPC DUAL CONTACT SIDE CONNECTOR	1
1.1.108	Coil	Coil,L4,Power inductor, 4.7uH,20%,2.0A,SMD	1
1.1 109	Coil	Coil,L23,Power inductor, 4.7uH,20%,2.0A,SMD	1
1 1.110	Coil	Coil,L1,Power inductor, 2.2uH,20%,1.5A,SMD	1
1 1.111	Coil	Coil,L5,Power inductor, 2.2uH,20%,1.5A,SMD	1
1 1.112	Coil	Coil,L6,Power inductor, 2.2uH,20%,1.5A,SMD	1
1 1.113	Coil	Coil,L7,Power inductor, 2.2uH,20%,1.5A,SMD	1
1.1.114	Coil	Coil,L24,Power inductor, 2.2uH,20% 1A,SMD	1

Analyst: N Venkata Naga Aravind
Compiled By:V.Jambulingam:
Approved By: R.Radhika:

Name	Category Description	Description	Quantity
1.1.115	Micro, Linear	Micro, Linear,U2,Dual-channel ultra-low noise 256 micro-stepping low-voltage motor driver	1
1.1.116	Micro, Linear	Micro, Linear,U8,Dual ground sense operational amplifier	1
1.1.117	Micro, Linear	Micro, Linear,U14,300-mA, Low-Dropout Regulator	1
1.1.118	Micro, Linear	Micro, Linear,U15,300-mA, Low-Dropout Regulator	1
1.1.119	Micro, Linear	Micro, Linear,U18,300-mA, Low-Dropout Regulator	1
1.1.120	External	External,IMX335,Image Sensor,Diagonal 8.48mm(Type 1/2.8) CMOS Solid-state Image Sensor	1
2	Block	Block,MainBoard(CPU) CV28s33m	1
2.1	IA, Surface Mount Tech	IA, Surface Mount Tech	1
2.1.1	Resistor	Resistor,R155,10K?±1% 0402	1
2.1.2	Resistor	Resistor,R20, 54.9K?±1% 0402	1
2.1.3	Resistor	Resistor,R24,31.6K?±1% 0402	1
2.1.4	Resistor	Resistor,R154,20K?±1% 0402	1
2.1.5	Resistor	Resistor,R160,25.5K ±1% 0402	1
2.1.6	Resistor	Resistor,R161,100K?±1% 0402	1

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Analyst : N.Venkata Naga Aravind:
Compiled By:V Jambulingam:
Approved By: R.Radhika:

Name	Category Description	Description	Quantity
2.1.7	Resistor	Resistor,R1332.24K?±1% 0402	1
2.1.8	Resistor	Resistor,R1339.37.47±1% 0402	1
2.1.9	Resistor	Resistor,R202.470?±5% 0402	1
2.1.10	Resistor	Resistor,R203.470?±5% 0402	1
2.1.11	Resistor	Resistor,R205,470?±5% 0402	1
2.1.12	Resistor	Resistor,R210,470?±5% 0402	1
2.1.13	Resistor	Resistor,R15,100K?±1% 0402	1
2.1.14	Resistor	Resistor,R22,100K?±1% 0402	1
2.1.15	Resistor	Resistor,R151,330?±1% 0402	1
2.1.16	Resistor	Resistor,R333,330?±1% 0402	1
2.1.17	Resistor	Resistor,R150,33?±5% 0402	1
2.1.18	Resistor	Resistor,R332.33?±5% 0402	1
2.1.19	Resistor	Resistor,R131,560?±5% 0402	1
2.1.20	Resistor	Resistor,R134,560?±5% 0402	1
2.1.21	Resistor	Resistor,R135.560?±5% 0402	1

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Compiled By:V.Jambulingam:
Approved By: R.Radhika:

Name	Category Description	Description	Quantity
2.1.22	Resistor	Resistor,R1372,10K?±1% 0402	1
2.1.23	Resistor	Resistor,R159,10K?±1% 0402	1
2.1.24	Resistor	Resistor,R157,10K?±1% 0402	1
2.1.25	Resistor	Resistor,R155,10K?±1% 0402	1
2.1.26	Resistor	Resistor,R152,10K?±1% 0402	1
2.1.27	Resistor	Resistor,R21 10K?±1% 0402	1
2.1.28	Resistor	Resistor,R352,10K?±1% 0402	1
2.1.29	Resistor	Resistor,R289,10K?±1% 0402	1
2.1.30	Resistor	Resistor,R265,10K?±1% 0402	1
2.1.31	Resistor	Resistor,R226,10K?±1% 0402	1
2.1.32	Resistor	Resistor,R214,10K?±1% 0402	1
2.1.33	Resistor	Resistor,R208,10K?±1% 0402	1
2.1.34	Resistor	Resistor,R207,10K?±1% 0402	1
2.1.35	Resistor	Resistor,R206,10K?±1% 0402	1
2.1.36	Resistor	Resistor,R197,10K?±1% 0402	1

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Analyst : N.Venkata Naga Aravind
Compiled By:V.Jambulingam:
Approved By: R Radhika:

Name	Category Description	Description	Quantity
2.1.37	Resistor	Resistor,R196,10K?±1% 0402	1
2.1.38	Resistor	Resistor,R28,10K?±1% 0402	1
2.1.39	Resistor	Resistor,R8,10K?±1% 0402	1
2.1.40	Resistor	Resistor,R32,4.7K?±5% 0402	1
2.1.41	Resistor	Resistor,R100,4.7K?±5% 0402	1
2.1.42	Resistor	Resistor,R192,4.7K?±5% 0402	1
2.1.43	Resistor	Resistor,R193,4.7K?±5% 0402	1
2.1.44	Resistor	Resistor,R194,4.7K?±5% 0402	1
2.1.45	Resistor	Resistor,R195,4.7K?±5% 0402	1
2.1.46	Resistor	Resistor,R25,0?±5% 0201	1
2.1.47	Resistor	Resistor,R31,0?±5% 0402	1
2.1.48	Resistor	Resistor,R33,0?±5% 0402	1
2.1.49	Resistor	Resistor,R136,0?±5% 0402	1
2.1.50	Resistor	Resistor,R138,0?±5% 0402	1
2.1.51	Resistor	Resistor,R165,0?±5% 0402	1

Analyst : N Venkata Naga Aravind.
Compiled By:V.Jambulingam
Approved By: R.Radhika.

Name	Category Description	Description	Quantity
2.1.52	Resistor	Resistor,R304,0?±5% 0402	1
2.1.53	Resistor	Resistor,R305,0?±5% 0402	1
2.1.54	Resistor	Resistor,R359,0?±5% 0402	1
2.1.55	Resistor	Resistor,R360,0?±5% 0402	1
2.1.56	Resistor	Resistor,R361,0?±5% 0402	1
2.1.57	Resistor	Resistor,R362,0?±5% 0402	1
2.1.58	Resistor	Resistor,R363,0?±5% 0402	1
2.1.59	Resistor	Resistor,R364,0?±5% 0402	1
2.1.60	Resistor	Resistor,R365,0?±5% 0402	1
2.1.61	Resistor	Resistor,R366,0?±5% 0402	1
2.1.62	Resistor	Resistor,R367,0?±5% 0402	1
2.1.63	Resistor	Resistor,R368,0?±5% 0402	1
2.1.64	Resistor	Resistor,R369,0?±5% 0402	1
2.1.65	Resistor	Resistor,R1322,0?±5% 0402	1
2.1.66	Resistor	Resistor,R1323,0?±5% 0402	1

Analyst : V.Venkata Naga Aravind:
Compiled By:V Jambulingam:
Approved By: R.Radhika:

Name	Category Descriphor	Description	Quantity
2.1.67	Resistor	Resistor,R1325,0?±5% 0402	1
2.1.68	Resistor	Resistor R1327,0?±5% 0402	1
2.1.69	Resistor	Resistor,R1344,0?±5% 0402	1
2.1.70	Resistor	Resistor,R1355,0?±5% 0402	1
2.1.71	Resistor	Resistor,R1363,0?±5% 0402	1
2.1.72	Resistor	Resistor,R1375,0?±5% 0402	1
2.1.73	Resistor	Resistor,R1377,0?±5% 0402	1
2.1.74	Resistor	Resistor,R6,1K?±5% 0402	1
2.1.75	Resistor	Resistor,R7,1K?±5% 0402	1
2.1.76	Resistor	Resistor,R13,1K?±5% 0402	1
2.1.77	Resistor	Resistor,R49,1K?±5% 0402	1
2.1.78	Resistor	Resistor,R101,1K?±5% 0402	1
2.1.79	Resistor	Resistor,R225,1K?±5% 0402	1
2.1.80	Resistor	Resistor,R259,1K?±5% 0402	1
2.1.81	Resistor	Resistor,R260,1K?±5% 0402	1

Analyst: N.Venkata Naga Aravind:
Compiled By:V.Jambulingam:
Approved By: R.Radhika:

Name	Category Description	Description	Quantity
2.1.82	Resistor	Resistor,R264,1K?±5% 0402	1
2.1.83	Resistor	Resistor,R10,2K?±1% 0402	1
2.1.84	Resistor	Resistor R950,1K?±1% 0402	1
2.1.85	Resistor	Resistor,R951,1K?±1% 0402	1
2.1.86	Resistor	Resistor,R153,100K?±1% 0402	1
2.1.87	Resistor	Resistor,R156,100K?±1% 0402	1
2.1.88	Resistor	Resistor,R162,100K?±1% 0402	1
2.1.89	Resistor	Resistor,R163 100K?±1% 0402	1
2.1.90	Resistor	Resistor,R164,100K?±1% 0402	1
2.1.91	Resistor	Resistor,R218,100K?±1% 0402	1
2.1.92	Resistor	Resistor,R256 100K?±1% 0402	1
2.1.93	Resistor	Resistor,R161,100K?±1% 0402	1
2.1.94	Resistor	Resistor,R200,4.7K?±5% 0402	1
2.1.95	Resistor	Resistor,R201,4.7K?±5% 0402	1
2.1.96	Resistor	Resistor,R211,4.7K?±5% 0402	1

Analyst : N.Venkata Naga Aravind:
Compiled By:V.Jambulingam
Approved By: R.Radhika:

Name	Category Description	Description	Quantity
2.1.97	Resistor	Resistor,R243,4.7K?±5% 0402	1
2.1.98	Resistor	Resistor,R244 4.7K?±5% 0402	1
2.1.99	Resistor	Resistor,R337 4.7K?±5% 0402	1
2.1.100	Resistor	Resistor,R343,4.7K?±5% 0402	1
2.1.101	Resistor	Resistor,R355 4.7K?±5% 0402	1
2.1.102	Resistor	Resistor,R1338 4.7K?±5% 0402	1
2.1.103	Resistor	Resistor,R1343,4.7K?±5% 0402	1
2.1.104	Resistor	Resistor,R1345,4.7K?±5% 0402	1
2.1.105	Resistor	Resistor,R145,4.7K?±5% 0402	1
2.1.106	Resistor	Resistor,R147,4.7K?±5% 0402	1
2.1.107	Capacitor	Capacitor,C4,22pF±5% 50V NP0 0402	1
2.1.108	Capacitor	Capacitor,C191,0.01uF±10% 100V X7R 0402	1
2.1.109	Capacitor	Capacitor,C8,0.1uF±10% 50V,X5R,0201	1
2.1.110	Capacitor	Capacitor,C7,0.1uF±10% 50V X5R 0402	1
2.1.111	Capacitor	Capacitor,C19,1uF ±10% 50V X5R 0402	1

Anayst : N.Venkata Naga Aravind
Compiled By:V Jambulingam:
Approved By. R.Radhika.

Name	Category Description	Description	Quantity
2.1.112	Capacitor	Capacitor,C240,2.2uF±10% 25V X5R 0402	1
2.1.113	Capacitor	Capacitor,C43,4.7uF±10% 50V X5R 0603	1
2.1.114	Capacitor	Capacitor,C87,10uF±10% 50V X5R 0805	1
2.1.115	Capacitor	Capacitor,C124,22uF±10% 50V X5R 1206	1
2.1.116	Capacitor	Capacitor,C135,47uF±20% 10V X5R 1206	1
2.1.117	Capacitor	Capacitor,C269,0.33uF±10% 50V,X7R,0402	1
2.1.118	Capacitor	Capacitor,C241,2.2uF±10% 25V X5R 0402	1
2.1.119	Capacitor	Capacitor,C1652,0.01uF±10% 100V X7R 0402	1
2.1.120	Capacitor	Capacitor,C140,0.22uF ±10% 50V X5R 0402	1
2.1.121	Capacitor	Capacitor,C220,0.22uF ±10% 50V X5R 0402	1
2.1.122	Capacitor	Capacitor,C229,0.22uF ±10% 50V X5R 0402	1
2.1.123	Capacitor	Capacitor,C125,22uF±20%50V X5R 0805	1
2.1.124	Capacitor	Capacitor,C127,22uF±20%50V X5R 0805	1
2.1.125	Capacitor	Capacitor,C1642,22uF±20%50V X5R 0805	1
2.1.126	Capacitor	Capacitor,C126,22uF±20%50V X5R 0805	1

Name	Category Description	Description	Quantity
2.1.127	Capacitor	Capacitor,C86,22uF±20%50V X5R 0805	1
2.1.128	Capacitor	Capacitor,C270,22uF±20%50V X5R 0805	1
2.1.129	Capacitor	Capacitor,C87,10uF±10% 25V X5R 0805	1
2.1.130	Capacitor	Capacitor,C110,10uF±10% 25V X5R 0805	1
2.1.131	Capacitor	Capacitor,C49,4.7uF±10% 50V X5R 0603	1
2.1.132	Capacitor	Capacitor,C56,4.7uF±10% 50V	1
2.1.133	Capacitor	Capacitor,C61,4.7uF±10% 50V	1
2.1.134	Capacitor	Capacitor,C197,4.7uF±10% 50V	1
2.1.135	Capacitor	Capacitor,C199,4.7uF±10% 50V	1
2.1.136	Capacitor	Capacitor,C301,4.7uF±10% 50V	1
2.1.137	Capacitor	Capacitor,C42,10uF±10% 25V X5R 0805	1
2.1.138	Capacitor	Capacitor,C209,10uF±10% 25V X5R 0805	1
2.1.139	Capacitor	Capacitor,C213,10uF±10% 25V X5R 0805	1
2.1.140	Capacitor	Capacitor,C218,10uF±10% 25V X5R 0805	1
2.1.141	Capacitor	Capacitor,C265,10uF±10% 25V X5R 0805	1

Analyst : N.Venkata Naga Aravind;
Compiled By:V.Jambulingam;
Approved By R.Radhika;

Name	Category Description	Description	Quantity
2 1.142	Capacitor	Capacitor,C57,1uF ±10% 50V X5R 0402	1
2 1.143	Capacitor	Capacitor,C62,1uF ±10% 50V X5R 0402	1
2.1.144	Capacitor	Capacitor,C66,1uF ±10% 50V X5R 0402	1
2 1.145	Capacitor	Capacitor,C69,1uF ±10% 50V X5R 0402	1
2 1.146	Capacitor	Capacitor,C73,1uF ±10% 50V X5R 0402	1
2.1.147	Capacitor	Capacitor,C142.1uF ±10% 50V X5R 0402	1
2 1.148	Capacitor	Capacitor,C145.1uF ±10% 50V X5R 0402	1
2 1.149	Capacitor	Capacitor,C155,1uF ±10% 50V X5R 0402	1
2.1.150	Capacitor	Capacitor,C249.1uF ±10% 50V X5R 0402	1
2 1.151	Capacitor	Capacitor,C134,0.1uF ±10% 50V X5R 0402	1
2 1.152	Capacitor	Capacitor,C141.0.1uF ±10% 50V X5R 0402	1
2.1.153	Capacitor	Capacitor,C143.0.1uF ±10% 50V X5R 0402	1
2 1.154	Capacitor	Capacitor,C144,0.1uF ±10% 50V X5R C402	1
2.1.155	Capacitor	Capacitor,C157,0.1uF ±10% 50V X5R C402	1
2.1.156	Capacitor	Capacitor,C160 0.1uF ±10% 50V X5R 0402	1

Analyst : N.Venkata Naga Aravind:
Compiled By V.Tamburaigam:
Approved By: R.Radhika.

Name	Category Description	Description	Quantity
2.1.157	Capacitor	Capacitor,C162,0.1uF ±10% 50V X5R 0402	1
2.1.158	Capacitor	Capacitor,C181,0.1uF ±10% 50V X5R 0402	1
2.1.159	Capacitor	Capacitor,C183,0.1uF ±10% 50V X5R 0402	1
2.1.160	Capacitor	Capacitor,C185,0.1uF ±10% 50V X5R 0402	1
2.1.161	Capacitor	Capacitor,C187,0.1uF ±10% 50V X5R 0402	1
2.1.162	Capacitor	Capacitor,C189,0.1uF ±10% 50V X5R 0402	1
2.1.163	Capacitor	Capacitor,C188,0.1uF ±10% 50V X5R 0402	1
2.1.164	Capacitor	Capacitor,C198,0.1uF ±10% 50V X5R 0402	1
2.1.165	Capacitor	Capacitor,C205,0.1uF ±10% 50V X5R 0402	1
2.1.166	Capacitor	Capacitor,C210,0.1uF ±10% 50V X5R 0402	1
2.1.167	Capacitor	Capacitor,C211,0.1uF ±10% 50V X5R 0402	1
2.1.168	Capacitor	Capacitor,C212,0.1uF ±10% 50V X5R 0402	1
2.1.169	Capacitor	Capacitor,C215,0.1uF ±10% 50V X5R 0402	1
2.1.170	Capacitor	Capacitor,C218,0.1uF ±10% 50V X5R 0402	1
2.1.171	Capacitor	Capacitor,C225,0.1uF ±10% 50V X5R 0402	1

Name	Category Description	Description	Quantity
2.1.172	Capacitor	Capacitor,C228,0.1uF ±10% 50V X5R 0402	1
2.1.173	Capacitor	Capacitor,C232,0.1uF ±10% 50V X5R 0402	1
2.1.174	Capacitor	Capacitor,C235,0.1uF ±10% 50V X5R 0402	1
2.1.175	Capacitor	Capacitor,C237,0.1uF ±10% 50V X5R 0402	1
2.1.176	Capacitor	Capacitor,C230,0.1uF ±10% 50V X5R 0402	1
2.1.177	Capacitor	Capacitor,C260,0.1uF ±10% 50V X5R 0402	1
2.1.178	Capacitor	Capacitor,C283,0.1uF ±10% 50V X5R 0402	1
2.1.179	Capacitor	Capacitor,C287,0.1uF ±10% 50V X5R 0402	1
2.1.180	Capacitor	Capacitor,C288,0.1uF ±10% 50V X5R 0402	1
2.1.181	Capacitor	Capacitor,C334,0.1uF ±10% 50V X5R 0402	1
2.1.182	Capacitor	Capacitor,C847,0.1uF ±10% 50V X5R 0402	1
2.1.183	Capacitor	Capacitor,C1631,0.1uF ±10% 50V X5R 0402	1
2.1.184	Capacitor	Capacitor,C85,0.1uF ±10% 50V X5R 0402	1
2.1.185	Capacitor	Capacitor,C271,0.1uF ±10% 50V X5R 0402	1
2.1.186	Capacitor	Capacitor,C300,0.1uF ±10% 50V X5R 0402	1

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Name	Category Description	Description	Quantity
2.1.187	Capacitor	Capacitor,C88,0.1uF ±10% 50V X5R 0201	1
2.1.188	Capacitor	Capacitor,C89,0.1uF ±10% 50V X5R0201	1
2.1.189	Capacitor	Capacitor,C111,0.1uF ±10% 50V X5R 0201	1
2.1.190	Capacitor	Capacitor,C112,0.1uF ±10% 50V X5R 0201	1
2.1.191	Capacitor	Capacitor,C845,0.1uF ±10% 50V X5R 0201	1
2.1.192	Capacitor	Capacitor,C20,0.1uF ±10% 50V X5R 0201	1
2.1.193	Capacitor	Capacitor,C21,0.1uF ±10% 50V X5R 0201	1
2.1.194	Capacitor	Capacitor,C22,0.1uF ±10% 50V X5R 0201	1
2.1.195	Capacitor	Capacitor,C23,0.1uF ±10% 50V X5R 0201	1
2.1.196	Capacitor	Capacitor,C24,0.1uF ±10% 50V X5R 0201	1
2.1.197	Capacitor	Capacitor,C25,0.1uF ±10% 50V X5R 0201	1
2.1.198	Capacitor	Capacitor,C26,0.1uF ±10% 50V X5R 0201	1
2.1.199	Capacitor	Capacitor,C27,0.1uF ±10% 50V X5R 0201	1
2.1.200	Capacitor	Capacitor,C29,0.1uF ±10% 50V X5R 0201	1
2.1.201	Capacitor	Capacitor,C30,0.1uF±10%,50V,X5R 0201	1

Name	Category Description	Description	Quantity
2.1.202	Capacitor	Capacitor,C31,0.1uF±10%,50V,X5R,0201	1
2.1.203	Capacitor	Capacitor,C32,0.1uF±10%,50V,X5R,0201	1
2.1.204	Capacitor	Capacitor,C33,0.1uF±10%,50V,X5R,0201	1
2.1.205	Capacitor	Capacitor,C34,0.1uF±10%,50V,X5R,0201	1
2.1.206	Capacitor	Capacitor,C35,0.1uF±10%,50V,X5R,0201	1
2.1.207	Capacitor	Capacitor,C36,0.1uF±10%,50V,X5R,0201	1
2.1.208	Capacitor	Capacitor,C37,0.1uF±10%,50V,X5R,0201	1
2.1.209	Capacitor	Capacitor,C38,0.1uF±10%,50V,X5R,0201	1
2.1.210	Capacitor	Capacitor,C39,0.1uF±10%,50V,X5R,0201	1
2.1.211	Capacitor	Capacitor,C40,0.1uF±10%,50V,X5R,0201	1
2.1.212	Capacitor	Capacitor,C41,0.1uF±10%,50V,X5R,0201	1
2.1.213	Capacitor	Capacitor,C44,0.1uF±10%,50V,X5R,0201	1
2.1.214	Capacitor	Capacitor,C45,0.1uF±10%,50V,X5R,0201	1
2.1.215	Capacitor	Capacitor,C46,0.1uF±10%,50V,X5R,0201	1
2.1.216	Capacitor	Capacitor,C47,0.1uF±10%,50V,X5R,0201	1

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Name	Category Description	Description	Quantity
2.1.217	Capacitor	Capacitor,C49,0.1uF±10% 50V,X5R,0201	1
2.1.218	Capacitor	Capacitor,C50,0.1uF±10%,50V,X5R,0201	1
2.1.219	Capacitor	Capacitor,C51,0.1uF±10%,50V,X5R,0201	1
2.1.220	Capacitor	Capacitor,C52,0.1uF±10%,50V,X5R,0201	1
2.1.221	Capacitor	Capacitor,C52,0.1uF±10%,50V,X5R,0201	1
2.1.222	Capacitor	Capacitor,C54,0.1uF±10%,50V,X5R,0201	1
2.1.223	Capacitor	Capacitor,C55,0.1uF±10%,50V,X5R,0201	1
2.1.224	Diode, Low Frequency	Diode, Low Frequency,D7,TVS,Bi,15V 1500W,SMC	1
2.1.225	Diode, High Frequency	Diode, High Frequency,D8,3.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER	1
2.1.226	Diode, Low Frequency	Diode, Low Frequency,D111,Thyristors Solid Protection Device Bidirectional transient voltage suppressors	1
2.1.227	Diode, Low Frequency	Diode, Low Frequency,D112,Thyristors Solid Protection Device Bidirectional transient voltage suppressors	1
2.1.228	Diode, Low Frequency	Diode, Low Frequency,D10,High Property Device for Surge & ESD	1
2.1.229	Diode, Low Frequency	Diode, Low Frequency,D11,High Property Device for Surge & ESD	1

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Name	Category Description	Description	Quantity
2.1.230	Diode, High Frequency	Diode, High Frequency D9,Schottky Barrier Diode	1
2.1.231	Quartz Crystal	Quartz Crystal X1,24MHz,SMD 3.2*2.5mm,20pF,±20PPM	1
2.1.232	Quartz Crystal	Quartz Crystal,X2 32.768KHz,12.5pF,±20PPM,3.2*1.5, SMD	1
2.1.233	Connector, General	Connector, General,J2,Conn, B2C,TB, Male 1x3, 1.25mm SMD	1
2.1.234	Connector, General	Connector, General,J6,Conn, B2C,TB Male, 1x5, 1.25mm, SMD	1
2.1.235	Connector, General	Connector, General,J12,Conn, B2C TB Male 1x2, 1.25mm SMD	1
2.1.236	Connector, General	Connector, General,J29,Conn B2C,TB, Male, 1x2, 1.25mm SMD	1
2.1.237	Connector, General	Connector, General,J1,Conn, B2C TB Male 1x4, 1.25mm SMD	1
2.1.238	Connector, General	Connector, General,J12,Conn B2C,TB Male, 1x4,1.25mm, SMD	1
2.1.239	Connector, General	Connector, General,J8,Conn B2C, Male, 1x2, 1.25mm, ST, SMD	1
2.1.240	Connector, General	Connector General,J10,Conn B2C, Male, 1x2, 1.25mm, ST, SMD	1
2.1.241	Connector, General	Connector, General,J9,Conn, B2C, Male, 1x10, 1.25mm, ST, SMD	1
2.1.242	Connector, General	Connector, General,J7,Conn, B2C, Male, 1x12, 1.25mm, ST, SMD	1

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Name	Category Description	Description	Quantity
2.1.243	Connector, General	Connector, General,0.5mm FFC/FPC DUAL CONTACT SIDE CONNECTOR	1
2.1.244	Micro, Linear	Micro, Linear,U18,DIFFERENTIAL BUS TRANSCEIVERS	1
2.1.245	Micro, Linear	Micro, Linear,U61, 1A high-efficiency synchronous step-down converter	1
2.1.246	Micro, Linear	Micro, Linear,U60,300-mA, Low-Dropout Regulator	1
2.1.247	Micro, Linear	Micro, Linear,U21,2A high-efficiency synchronous step-down converter	1
2.1.248	Micro, Linear	Micro, Linear,U50,2A high-efficiency synchronous step-down converter	1
2.1.249	Micro, Linear	Micro, Linear,U51,2A high-efficiency synchronous step-down converter	1
2.1.250	Micro, Linear	Micro, Linear,U20,2A synchronous step-down converter	1
2.1.251	Micro, Linear	Micro, Linear,U9, 2-Bit, 2-Supply, Bus Transceiver with Configurable Level-ShiftingTranslation and 3-State Outputs and	1
2.1.252	Micro, Linear	Micro, Linear,U34,microprocessor (?P) supervisorycircuits	1
2.1.253	Micro, Linear	Micro, Linear,U19,2A synchronous step-down converter	1
2.1.254	Micro, Digital	Micro, Digital,IC,SERIAL NAND, 2Gb,WSON8	1

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Item	Category Description	Description	Quantity
2.1.255	Micro, Not EEPROM	Micro, Not EEPROM,U15,IC,MEM,4Gb,1200MHz, DDR4,BGA96	1
1.1.256	External	External,Digital,U1,IC, CV25S66M, Ambarella vision processor,VFBGA-288 0.65_11*12mm	1
1.1.257	External	External,U25,300-mA, Low-Dropout Regulator	1
1.1.258	Micro, Linear	Micro, Linear,U34 10/100Mbps single-port Physical Layer transceiver	1

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Annexure- II

FAILURE RATE REPORT

(Temperature 40 ℃)

MIL- HDBK- 217F FAILURE RATE REPORT

Name: SC-IND22XP-I(2)(S)
Failure Rate: 9.7008247
MTBF: 103084.02

Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
1	Block	Block,ImageSensor IMX335	1	2.9813693	2.9813693	30.733152%
1.1	IA, Surface Mount Tech	IA, Surface Mount Tech	1	2.9813693	2.9813693	100%
1.1.1	Resistor	Resistor,R1",4.99K?±1 % 0402	1	0.0050806045	0.0050806045	0.17041178%
1.1.2	Resistor	Resistor,R2,4.99K?±1 % 0402	1	0.0050806045	0.0050806045	0.17041178%
1.1.3	Resistor	Resistor,R71,10K?±5 % 0402	1	0.0049714521	0.0049714521	0.16675062%
1.1.4	Resistor	Resistor,R73,10K?±5 % 0402	1	0.0049714521	0.0049714521	0.16675062%
1.1.5	Resistor	Resistor,R75,10K?±5 % 0402	1	0.0049714521	0.0049714521	0.16675062%
1.1.6	Resistor	Resistor,R188,10K?±5 % 0402	1	0.005066229	0.005066229	0.16999261%
1.1.7	Resistor	Resistor,R191,10K?±5 % 0402	1	0.005066229	0.005066229	0.16999261%
1.1.8	Resistor	Resistor,R197,10K?±5 % 0402	1	0.005066229	0.005066229	0.16999261%

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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
1.1.9	Resistor	Resistor,R202,10K?±5% 0402	1	0.005066229	0.005066229	0.16932961%
1.1.10	Resistor	Resistor,R201,10K?±5% 0402	1	0.005066229	0.005066229	0.16932961%
1.1.11	Resistor	Resistor,RT19,4.7K?±5% 0402	1	0.0050306874	0.0050306874	0.16879749%
1.1.12	Resistor	Resistor,R303,2K?±1% 0402	1	0.0054655802	0.0054655802	0.1833245%
1.1.13	Resistor	Resistor,R305,2K?±1% 0402	1	0.0054655802	0.0054655802	0.1833245%
1.1.14	Resistor	Resistor,RT21,1K?±1% 0402	1	0.0050414125	0.0050414125	0.16909721%
1.1.15	Resistor	Resistor,RT23,1K?±1% 0402	1	0.0050414125	0.0050414125	0.16909721%
1.1.16	Resistor	Resistor,RT15,1K?±1% 0402	1	0.0052617006	0.0052617006	0.17646805%
1.1.17	Resistor	Resistor,RT16,1K?±1% 0402	1	0.0052617006	0.0052617006	0.17646805%
1.1.18	Resistor	Resistor,R1.0?±5% 0402	1	0.0049700518	0.0049700518	0.16670367%
1.1.19	Resistor	Resistor,R413.0?±5% 0402	1	0.0049700518	0.0049700518	0.16670367%
1.1.20	Resistor	Resistor,R420.0?±5% 0402	1	0.0049700518	0.0049700518	0.16670367%

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Name	Category Description	Description	Quantity	Failure Rate	NoFailure Rate	Percent Contribution
1.1.21	Resistor	Resistor,R421,0?±5% 0402	1	0.0049700518	0.0049700518	0.16670367%
1.1.22	Resistor	Resistor,R422,0?±5% 0402	1	0.0049700518	0.0049700518	0.16670367%
1.1.23	Resistor	Resistor,R423,0?±5% 0402	1	0.0049700518	0.0049700518	0.16670367%
1.1.24	Resistor	Resistor,R424,0?±5% 0402	1	0.0050232559	0.0050232559	0.16848822%
1.1.25	Resistor	Resistor,R425,0?±5% 0402	1	0.0049700518	0.0049700518	0.16670367%
	Resistor	Resistor,R194,0?±5% 0402	1	0.0049700518	0.0049700518	0.16670367%
	Resistor	Resistor,R72,0?±5% 0402	1	0.0049700518	0.0049700518	0.16670367%
1.1.28	Resistor	Resistor,RT17,0?±5% 0402	1	0.0049700518	0.0049700518	0.16670367%
1.1.29	Resistor	Resistor,RT18,0?±5% 0402	1	0.0049700518	0.0049700518	0.16670367%
1.1.30	Resistor	Resistor,FB1,0?±5% 0402	1	0.0049700518	0.0049700518	0.16670367%
1.1.31	Resistor	Resistor,FB2,0?±5% 0402	1	0.0049700518	0.0049700518	0.16670367%
1.1.32	Resistor	Resistor,FB3,0?±5% 0402	1	0.0049700518	0.0049700518	0.16670367%

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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
1.1.33	Resistor	Resistor,FB4,0?+5% 0402	1	0.0049700518	0.0049700518	0.16670367%
1.1.34	Resistor	Resistor,FB 1,0?+5% 0402	1	0.0049700518	0.0049700518	0.16670367%
1.1.35	Resistor	Resistor,R2 0?±5% 0402	1	0.0049700518	0.0049700518	0.16670367%
1.1.36	Resistor	Resistor,R3 0?+5% 0402	1	0.0050232559	0.0050232559	0.16848822%
1.1.37	Resistor	Resistor,R210,0?+5% 0402	1	0.0049700518	0.0049700518	0.16670367%
1.1.38	Resistor	Resistor,R211,0?+5% 0402	1	0.0049700518	0.0049700518	0.16670367%
1.1.39	Resistor	Resistor,R212,0?+5% 0402	1	0.0049700518	0.0049700518	0.16670367%
1.1.40	Resistor	Resistor,R213,0?+5% 0402	1	0.0049700518	0.0049700518	0.16670367%
1.1.41	Resistor	Resistor,R214,0?±5% 0402	1	0.0049700518	0.0049700518	0.16670367%
1.1.42	Resistor	Resistor,R215,0?±5% 0402	1	0.0049700518	0.0049700518	0.16670367%
1.1.43	Resistor	Resistor,R216,0?±5% 0402	1	0.0049700518	0.0049700518	0.16670367%
1.1.44	Resistor	Resistor,R219,0?±5% 0402	1	0.0049700518	0.0049700518	0.16670367%
1.1.45	Capacitor	Capacitor,C85,22pF±5% 50V NP0 0402	1	0.0072562065	0.0072562065	0.24338509%

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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
1.1.46	Capacitor	Capacitor,C66,22pF±5 % 50V NP0 0402	1	0.0072562085	0.0072562085	0.2433850994
1.1.47	Capacitor	Capacitor,CT2,1000p F±10% 50V X7R 0402	1	0.010218985	0.010218985	0.3427514972
1.1.48	Capacitor	Capacitor,C25,0.22uF ±10% 50V X7R 0402	1	0.016623013	0.016623013	0.5575630174
1.1.49	Capacitor	Capacitor,C1,1uF±10 % 50V X5R 0402	1	0.019049857	0.019049857	0.6389633441
1.1.50	Capacitor	Capacitor,C28,1uF±10 % 50V X5R 0402	1	0.019049857	0.019049857	0.6389633441
1.1.51	Capacitor	Capacitor,C350,2.2uF ±10% 50V X5R 0603	1	0.020450771	0.020450771	0.6859523314
1.1.52	Capacitor	Capacitor,C352,2.2uF ±10% 50V X5R 0603	1	0.020450771	0.020450771	0.6859523314
1.1.53	Capacitor	Capacitor,C357,2.2uF ±10% 50V X5R 0603	1	0.020450771	0.020450771	0.6859523314
1.1.54	Capacitor	Capacitor,C2,10uF±10 % 35V X5R 0603	1	0.023496117	0.023496117	0.7880982276
1.1.55	Capacitor	Capacitor,C4,10uF±10 % 35V X5R 0603	1	0.023721205	0.023721205	0.7956479836
1.1.56	Capacitor	Capacitor,C5,10uF±10 % 35V X5R 0603	1	0.023721205	0.023721205	0.7956479836
1.1.57	Capacitor	Capacitor,C10,10uF±1 0% 35V X5R 0603	1	0.023420034	0.023420034	0.7855452454
1.1.58	Capacitor	Capacitor,C13,10uF±1 0% 35V X5R 0603	1	0.023721205	0.023721205	0.7956479836

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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
1.1.59	Capacitor	Capacitor,C15,10uF±10% 35V X5R 0603	1	0.023409659	0.023409659	0.78519627%
1.1.60	Capacitor	Capacitor,C22,10uF±10% 35V X5R 0603	1	0.023409659	0.023409659	0.78519627%
1.1.61	Capacitor	Capacitor,C29,10uF±10% 35V X5R 0603	1	0.023409659	0.023409659	0.78519627%
1.1.62	Capacitor	Capacitor,C30,10uF±10% 35V X5H 0603	1	0.023479531	0.023479531	0.78734064%
1.1.63	Capacitor	Capacitor,C44,10uF±10% 35V X5R 0603	1	0.023466934	0.023466934	0.78711933%
1.1.64	Capacitor	Capacitor,C48,10uF±10% 35V X5R 0603	1	0.023466934	0.023466934	0.78711933%
1.1.65	Capacitor	Capacitor,C74,10uF±10% 35V X5H 0603	1	0.023496117	0.023496117	0.78809822%
1.1.66	Capacitor	Capacitor,C76,10uF±10% 35V X5R 0603	1	0.023409659	0.023409659	0.78519627%
1.1.67	Capacitor	Capacitor,C78,10uF±10% 35V X5R 0603	1	0.023496117	0.023496117	0.78809822%
1.1.68	Capacitor	Capacitor,C85,10uF±10% 35V X5R 0603	1	0.023496117	0.023496117	0.78809822%
1.1.69	Capacitor	Capacitor,C92,10uF±10% 35V X5R 0603	1	0.023721205	0.023721205	0.79564798%
1.1.70	Capacitor	Capacitor,C98,10uF±10% 35V X5R 0603	1	0.023466934	0.023466934	0.78711933%
1.1.71	Capacitor	Capacitor,C161,10uF±10% 35V X5R 0603	1	0.023420034	0.023420034	0.78554024%
1.1.72	Capacitor	Capacitor,C358,10uF±10% 35V X5R 0603	1	0.023721205	0.023721205	0.79564798%

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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
1.1.73	Capacitor	Capacitor,C208,10uF± 10% 35V X5R 0603	1	0.023721205	0.023721205	0.795647985%
1.1.74	Capacitor	Capacitor,C14,0.1uF± 10% 50V X7R 0402	1	0.015464712	0.015464712	0.518711755%
1.1.75	Capacitor	Capacitor,C15,0.1uF± 10% 50V X7R 0402	1	0.015464712	0.015464712	0.518711755%
1.1.76	Capacitor	Capacitor,C16,0.1uF± 10% 50V X7R 0402	1	0.015464712	0.015464712	0.518711755%
1.1.77	Capacitor	Capacitor,C19,0.1uF± 10% 50V X7R 0402	1	0.015477689	0.015477689	0.519146998%
1.1.78	Capacitor	Capacitor,C20,0.1uF± 10% 50V X7R 0402	1	0.015464712	0.015464712	0.518711755%
1.1.79	Capacitor	Capacitor,C21,0.1uF± 10% 50V X7R 0402	1	0.015477689	0.015477689	0.519146998%
1.1.80	Capacitor	Capacitor,C23,0.1uF± 10% 50V X7R 0402	1	0.015464712	0.015464712	0.518711755%
1.1.81	Capacitor	Capacitor,C24,0.1uF± 10% 50V X7R 0402	1	0.015464712	0.015464712	0.518711755%
1.1.82	Capacitor	Capacitor,C26,0.1uF± 10% 50V X7R 0402	1	0.015464712	0.015464712	0.518711755%
1.1.83	Capacitor	Capacitor,C27,0.1uF± 10% 50V X7R 0402	1	0.015484304	0.015484304	0.519369399%
1.1.84	Capacitor	Capacitor,C31,0.1uF± 10% 50V X7R 0402	1	0.015477689	0.015477689	0.519146998%

Analyst : N.Venkata Naga Aravind
Compiled By:V Jambulingam
Approved By : R Radhika

Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
1.1.85	Capacitor	Capacitor,C32,0.1uF± 10% 50V X7R 0402	1	0.015477689	0.015477689	0.51914698%
1.1.86	Capacitor	CapacitorC33,0.1uF±1 0% 50V X7R 0402	1	0.015477689	0.015477689	0.51914698%
1.1.87	Capacitor	CapacitorC34,0.1uF±1 0% 50V X7R 0402	1	0.015477689	0.015477689	0.51914698%
1.1.88	Capacitor	CapacitorC35,0.1uF±1 0% 50V X7R 0402	1	0.015477689	0.015477689	0.51914698%
1.1.89	Capacitor	CapacitorC36,0.1uF±1 0% 50V X7R 0402	1	0.015467062	0.015467062	0.51879054%
1.1.90	Capacitor	Capacitor,C37,0.1uF± 10% 50V X7R 0402	1	0.015467062	0.015467062	0.51879054%
1.1.91	Capacitor	Capacitor,C38,0.1uF± 10% 50V X7R 0402	1	0.015464712	0.015464712	0.51871175%
1.1.92	Capacitor	Capacitor,C39,0.1uF± 10% 50V X7R 0402	1	0.015464712	0.015464712	0.51871175%
1.1.93	Capacitor	Capacitor,C40,0.1uF± 10% 50V X7R 0402	1	0.015477689	0.015477689	0.51914698%
1.1.94	Capacitor	Capacitor,C41,0.1uF± 10% 50V X7R 0402	1	0.015464712	0.015464712	0.51871175%
1.1.95	Capacitor	Capacitor,C42,0.1uF± 10% 50V X7R 0402	1	0.015484304	0.015484304	0.51936889%
1.1.96	Capacitor	Capacitor,C43,0.1uF± 10% 50V X7R 0402	1	0.015464712	0.015464712	0.51871175%
1.1.97	Capacitor	Capacitor,C45,0.1uF± 10% 50V X7R 0402	1	0.015477689	0.015477689	0.51914698%

Analyst : N.Venkata Naga Aravind:
Compiled By:V Jambulingam:
Approved By : R.Radhika

Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
1.1.98	Capacitor	Capacitor,C46,0.1uF± 10% 50V X7R 0402	1	0.015464712	0.015464712	0.51871175%
1.1.99	Capacitor	Capacitor,C49,0.1uF± 10% 50V X7R 0402	1	0.015477689	0.015477689	0.51914698%
1.1.100	Capacitor	Capacitor,C75,0.1uF± 10% 50V X7R 0402	1	0.015464304	0.015464304	0.51866889%
1.1.101	Diode Low Frequency	Diode, Low Frequency,D1,Schottky Barrier Diode	1	0.010264653	0.010264653	0.34429324%
1.1.102	Quartz Crystal	Quartz Crystal,X2,24MHz SMD 3.2*2.5mm,20pF ±20PPM	1	0.06100526	0.06100526	2.7170489%
1.1.103	Connector, General	Connector, General,J2,Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1	0.2394121	0.2394121	8.0302734%
1.1.104	Connector, General	Connector, General,J6,Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1	0.23896429	0.23896429	8.0152531%
1.1.105	Connector, General	Connector, General,J1,Conn, B2C,TB, Male, 1x4, 1.25mm, SMD	1	0.2394121	0.2394121	8.0302734%
1.1.106	Connector, General	Connector, General,J5,Conn, B2C,TB, Male, 1x8,1.25mm, SMD	1	0.2394121	0.2394121	8.0302734%

Analyst : N.Venkata Naga Aravind
Compiled By:V.Jambulingam
Approved By : R.Radhika

Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
1.1.107	Connector, General	Connector, General,0.5mm FFC/FPC DUAL CONTACT SIDE CONNECTOR	1	0.2994121	0.2994121	8.0302734%
1.1.108	Coil	Coil,L4,Power inductor, 4.7uH,20%,2.0A,SMD	1	0.00025384156	0.00025384156	0.0085142711%
1.1.109	Coil	Coil,L23,Power inductor, 4.7uH,20%,2.0A,SMD	1	0.00024126675	0.00024126675	0.0080924816%
1.1.110	Coil	Coil,L1,Power inductor, 2.2uH,20%,1.5A,SMD	1	0.00025384156	0.00025384156	0.0085142711%
1.1.111	Coil	Coil,L5,Power inductor, 2.2uH,20%,1.5A,SMD	1	0.00025384156	0.00025384156	0.0085142711%
1.1.112	Coil	Coil,L6,Power inductor, 2.2uH,20%,1.5A,SMD	1	0.00022390795	0.00022390795	0.0075102402%
1.1.113	Coil	Coil,L7,Power inductor, 2.2uH,20%,1.5A,SMD	1	0.00025384156	0.00025384156	0.0085142711%
1.1.114	Coil	Coil,L24,Power inductor, 2.2uH,20%,1A,SMD	1	0.00025384156	0.00025384156	0.0085142711%
1.1.115	Micro, Linear	Micro, Linear,U2,Dual-channel ultra-low noise 256 micro-stepping low-voltage motor driver	1	0.028559163	0.028559163	0.95792103%

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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
1.1.116	Micro, Linear	Micro, Linear,U8 Dual ground sense operational amplifier	1	0.010204428	0.010204428	0.34227321%
1.1.117	Micro, Linear	Micro, Linear,U14,300-mA, Low-Dropout Regulator	1	0.0080983331	0.0080983331	0.27163133%
1.1.118	Micro, Linear	Micro, Linear,U15,300-mA, Low-Dropout Regulator	1	0.0080983331	0.0080983331	0.27163133%
1.1.119	Micro, Linear	Micro, Linear,U16,300-mA, Low-Dropout Regulator	1	0.0080983331	0.0080983331	0.27163133%
	External	External,IMX335 Image Sensor,Diagonal 8.43mm(Type 1/2.8) CMOS Solid-state Image Sensor	1	0.16	0.16	5.3666615%
2	Block	Block,MainBoard(CPU) CV28s33m	1	6.7194552	6.7194552	69.266546%
2.1	IA, Surface Mount Tech	IA, Surface Mount Tech	1	6.7194552	6.7194552	100%
2.1.1	Resistor	Resistor,R155,10K?±1% 0402	1	0.004973202	0.004973202	0.07401195%
2.1.2	Resistor	Resistor,R20, 54.9K?±1% 0402	1	0.004998914	0.004998914	0.0743946295

Analyst : N.Venkata Naga Aravind:
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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.3	Resistor	Resistor,R24.31.6K?±1% 0402	1	0.0049881041	0.0049881041	0.074233755%
2.1.4	Resistor	Resistor,R164,20K?±1% 0402	1	0.0049763536	0.0049763536	0.074058883%
2.1.5	Resistor	Resistor,R160,25.5K ±1% 0402	1	0.0049701291	0.0049701291	0.073966825%
2.1.6	Resistor	Resistor,R161,100K?±1% 0402	1	0.0049703671	0.0049703671	0.073969769%
2.1.7	Resistor	Resistor,R1352.24K?±1% 0402	1	0.0049788072	0.0049788072	0.074095398%
2.1.8	Resistor	Resistor,R1339.37.4? ±1% 0402	1	0.0055901064	0.0055901064	0.083192848%
2.1.9	Resistor	Resistor,R202,470?±5% 0402	1	0.0049769673	0.0049769673	0.074068017%
2.1.10	Resistor	Resistor,R203,470?±5% 0402	1	0.0049769673	0.0049769673	0.074068017%
2.1.11	Resistor	Resistor,R206,470?±5% 0402	1	0.006392403	0.006392403	0.095132761%
2.1.12	Resistor	Resistor,R210.470?±5% 0402	1	0.006392403	0.006392403	0.095132761%
2.1.13	Resistor	Resistor,R18.100K?±1% 0402	1	0.0049700835	0.0049700835	0.073965672%
2.1.14	Resistor	Resistor,R22.100K?±1% 0402	1	0.0049700835	0.0049700835	0.073965672%

Analyst : N Venkata Naga Aravind
Compiled By.V.Jambulingam
Approved By . R.Radhika.

Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.15	Resistor	Resistor,R151,330?±1 % 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.16	Resistor	Resistor,R333,330?±1 % 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.17	Resistor	Resistor,R150,33?±5 % 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.18	Resistor	Resistor,R332,33?±5 % 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.19	Resistor	Resistor,R131,560?±5 % 0402	1	0.0051626312	0.0051626312	0.076831095%
2.1.20	Resistor	Resistor,R134,560?±5 % 0402	1	0.0051626312	0.0051626312	0.076831095%
2.1.21	Resistor	Resistor,R135,560?±5 % 0402	1	0.0051626312	0.0051626312	0.076831095%
2.1.22	Resistor	Resistor,R1372.10K?±1% 0402	1	0.005027236	0.005027236	0.074816123%
2.1.23	Resistor	Resistor,R150,10K?±1 % 0402	1	0.004973202	0.004973202	0.074011981%
2.1.24	Resistor	Resistor,R157,10K?±1 % 0402	1	0.004973202	0.004973202	0.074011981%
2.1.25	Resistor	Resistor,R155,10K?±1 % 0402	1	0.004973202	0.004973202	0.074011981%
2.1.26	Resistor	Resistor,R152.10K?±1 % 0402	1	0.0050214883	0.0050214883	0.074730583%
2.1.27	Resistor	Resistor,R21,10K?±1 % 0402	1	0.0050214883	0.0050214883	0.074730583%

Analyst: N.Venkata Naga Aravind
Compiled By:V.Jambulingam:
Approved By : A Radhika:

Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.28	Resistor	Resistor,R352,10K?±1 % 0402	1	0.0049984739	0.0049984739	0.074388079%
2.1.29	Resistor	Resistor,R269,10K?±1 % 0402	1	0.0049984739	0.0049984739	0.074388079%
2.1.30	Resistor	Resistor,R265,10K?±1 % 0402	1	0.0049743401	0.0049743401	0.074028917%
2.1.31	Resistor	Resistor,R226,10K?±1 % 0402	1	0.0049743401	0.0049743401	0.074028917%
2.1.32	Resistor	Resistor,R214,10K?±1 % 0402	1	0.005066229	0.005066229	0.075396426%
2.1.33	Resistor	Resistor,R208,10K?±1 % 0402	1	0.0051562744	0.0051562744	0.076736495%
2.1.34	Resistor	Resistor,R207,10K?±1 % 0402	1	0.005066229	0.005066229	0.075396426%
2.1.35	Resistor	Resistor,R205,10K?±1 % 0402	1	0.0051562744	0.0051562744	0.076736495%
2.1.36	Resistor	Resistor,R197,10K?±1 % 0402	1	0.0051936167	0.0051936167	0.077292226%
2.1.37	Resistor	Resistor,R196,10K?±1 % 0402	1	0.0051936167	0.0051936167	0.077292226%
2.1.38	Resistor	Resistor,R28,10K?±1 % 0402	1	0.0049743401	0.0049743401	0.074028917%
2.1.39	Resistor	Resistor,R8,10K?±1% 0402	1	0.005066229	0.005066229	0.075396426%
2.1.40	Resistor	Resistor,R32,4.7K?±5 % 0402	1	0.0050306874	0.0050306874	0.074867487%

Analyst : N.Venkata Naga Aravind:
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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.41	Resistor	Resistor,R190,4.7K?±5% 0402	1	0.0050562516	0.0050562516	0.075247943%
2.1.42	Resistor	Resistor,R192,4.7K?±5% 0402	1	0.005012129	0.005012129	0.074591301%
2.1.43	Resistor	Resistor,R193,4.7K?±5% 0402	1	0.005012129	0.005012129	0.074591301%
2.1.44	Resistor	Resistor,R194,4.7K?±5% 0402	1	0.005012129	0.005012129	0.074591301%
2.1.45	Resistor	Resistor,R195,4.7K?±5% 0402	1	0.005012129	0.005012129	0.074591301%
2.1.46	Resistor	Resistor,R25,0?±5% 0201	1	0.0049700518	0.0049700518	0.073965102%
2.1.47	Resistor	Resistor,R31,0?±5% 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.48	Resistor	Resistor,R33,0?±5% 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.49	Resistor	Resistor,R136,0?±5% 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.50	Resistor	Resistor,R155,0?±5% 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.51	Resistor	Resistor,R165,0?±5% 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.52	Resistor	Resistor,R304,0?±5% 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.53	Resistor	Resistor,R305,0?±5% 0402	1	0.0049700518	0.0049700518	0.073965102%

Analyst : N.Venkata Naga Aravind:
Compiled By:V.Jambulingam:
Approved By : R.Radhika:

Name	Category Description	Description	Quantity	Failure Rate	MxFailure Rate	Percent Contribution
2.1.54	Resistor	Resistor,R359,0?±5% 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.55	Resistor	Resistor,R360,0?±5% 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.56	Resistor	Resistor,R361,0?±5% 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.57	Resistor	Resistor,R362,0?±5% 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.58	Resistor	Resistor,R363,0?±5% 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.59	Resistor	Resistor,R364,0?±5% 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.60	Resistor	Resistor,R365,0?±5% 0402	1	0.0049700518	0.0049700518	0.073965102%
	Resistor	Resistor,R366,0?±5% 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.62	Resistor	Resistor,R367,0?±5% 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.63	Resistor	Resistor,R368,0?±5% 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.64	Resistor	Resistor,R369,0?±5% 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.65	Resistor	Resistor,R1322,0?±5% 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.66	Resistor	Resistor,R1323,0?±5% 0402	1	0.0049700518	0.0049700518	0.073965102%

Analyst : N Venkata Naga Aravind
Compiled By V.Jambulingam
Approved By R.Radhika

Name	Category Description	Description	Quantity	Failure Rate	Nchnikre Rate	Percent Contribution
2 1.67	Resistor	Resistor,R1325,0?±5 % 0402	1	0.0049700518	0.0049700518	0.073965102%
2 1.68	Resistor	Resistor,R1327,0?±5 % 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.69	Resistor	Resistor,R1344,0?±5 % 0402	1	0.0049700518	0.0049700518	0.073965102%
2 1.70	Resistor	Resistor,R1355,0?±5 % 0402	1	0.0049700518	0.0049700518	0.073965102%
2.1.71	Resistor	Resistor,R1363,0?±5 % 0402	1	0.0049700518	0.0049700518	0.073965102%
2 1.72	Resistor	Resistor,R1375,0?±5 % 0402	1	0.0049700518	0.0049700518	0.073965102%
2 1.73	Resistor	Resistor,R1377,0?±5 % 0402	1	0.0049700518	0.0049700518	0.073965102%
2 1.74	Resistor	Resistor,R6,1K?±5% 0402	1	0.0052617006	0.0052617006	0.078305461%
2 1.75	Resistor	Resistor,R7,1K?±5% 0402	1	0.0052617006	0.0052617006	0.078305461%
2 1.76	Resistor	Resistor,R13,1K?±5% 0402	1	0.0050770296	0.0050770296	0.075557157%
2 1.77	Resistor	Resistor,R49,1K?±5% 0402	1	0.0050770296	0.0050770296	0.075557157%
2 1.78	Resistor	Resistor,R10?,1K?±5 % 0402	1	0.0049882797	0.0049882797	0.074236371%
2 1.79	Resistor	Resistor,R225,1K?±5 % 0402	1	0.0050770296	0.0050770296	0.075557157%

Analyst : N Venkata Naga Aravind:
Compiled By:V.Jambulingam
Approved By : R.Radeka:

Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.80	Resistor	Resistor,R259,1K?±5 % 0402	1	0.0050770296	0.0050770296	0.075557157%
2.1.81	Resistor	Resistor,R260,1K?±5 % 0402	1	0.0049882797	0.0049882797	0.074236371%
2.1.82	Resistor	Resistor,R254,1K?±5 % 0402	1	0.0050770296	0.0050770296	0.075557157%
2.1.83	Resistor	Resistor,R10,2K?±1% 0402	1	0.0053796888	0.0053796888	0.080061369%
2.1.84	Resistor	Resistor,R950,1K?±1 % 0402	1	0.0050016423	0.0050016423	0.074435234%
2.1.85	Resistor	Resistor,R951,1K?±1 % 0402	1	0.0050016423	0.0050016423	0.074435234%
2.1.86	Resistor	Resistor,R153,100K?±1% 0402	1	0.0049795872	0.0049795872	0.074107006%
2.1.87	Resistor	Resistor,R156,100K?±1% 0402	1	0.0049795872	0.0049795872	0.074107006%
2.1.88	Resistor	Resistor,R162,100K?±1% 0402	1	0.0049795872	0.0049795872	0.074107006%
2.1.89	Resistor	Resistor,R163,100K?±1% 0402	1	0.0049713114	0.0049713114	0.073983648%
2.1.90	Resistor	Resistor,R164,100K?±1% 0402	1	0.0049795872	0.0049795872	0.074107006%
2.1.91	Resistor	Resistor,R218,100K?±1% 0402	1	0.0050913463	0.0050913463	0.075770222%
2.1.92	Resistor	Resistor,R286,100K?±1% 0402	1	0.0049795872	0.0049795872	0.074107006%
2.1.93	Resistor	Resistor,R161,100K?±1% 0402	1	0.0049709671	0.0049709671	0.073959789%

Analyst : N.Venkata Naga Aravind
Compiled By:V.Jambulingam:
Approved By : R Radhika:

Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.94	Resistor	Resistor,R200,4.7K?±5% 0402	1	0.0050306874	0.0050306874	0.074867487%
2.1.95	Resistor	Resistor,R201,4.7K?±5% 0402	1	0.0050306874	0.0050306874	0.074867487%
2.1.96	Resistor	Resistor,R211,4.7K?±5% 0402	1	0.005175367	0.005175367	0.07702063%
2.1.97	Resistor	Resistor,R243,4.7K?±5% 0402	1	0.005175367	0.005175367	0.07702063%
2.1.98	Resistor	Resistor,R244,4.7K?±5% 0402	1	0.005175367	0.005175367	0.07702063%
2.1.99	Resistor	Resistor,R327,4.7K?±5% 0402	1	0.005175367	0.005175367	0.07702063%
2.1.100	Resistor	Resistor,R343,4.7K?±5% 0402	1	0.005175367	0.005175367	0.07702063%
2.1.101	Resistor	Resistor,R355,4.7K?±5% 0402	1	0.0051390603	0.0051390603	0.0764803?4%
2.1.102	Resistor	Resistor,R1338,4.7K?±5% 0402	1	0.005175367	0.005175367	0.07702063%
2.1.103	Resistor	Resistor,R1343,4.7K?±5% 0402	1	0.005175367	0.005175367	0.07702063%
2.1.104	Resistor	Resistor,R1345,4.7K?±5% 0402	1	0.0050306874	0.0050306874	0.074867487%
2.1.105	Resistor	Resistor,R146,4.7K?±5% 0402	1	0.005175367	0.005175367	0.07702063%
2.1.106	Resistor	Resistor,R147,4.7K?±5% 0402	1	0.005175367	0.005175367	0.07702063%
2.1.107	Capacitor	Capacitor,C4,22pF±5%,50V,NP0,0402	1	0.0072562085	0.0072562085	0.107958045%

Analyst : N.Venkata Naga Aravind
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Approved By : R Radhika:

Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.108	Capacitor	Capacitor,C191,0.01u F±10% 100V X7R 0402	1	0.01266994	0.01266994	0.18855605%
2.1.109	Capacitor	Capacitor,C8,0.1uF±1 0% 50V,X5R,0201	1	0.015467062	0.015467062	0.23018327%
2.1.110	Capacitor	Capacitor,C7,0.1uF+/- 10% 50V X5R 0402	1	0.0164534	0.0164534	0.24480211%
2.1.111	Capacitor	Capacitor,C19,1uF ±10% 50V X5R 0402	1	0.020242108	0.020242108	0.30124023%
2.1.112	Capacitor	Capacitor,C240,2.2uF ±10% 25V X5R 0402	1	0.020426687	0.020426687	0.3039932%
2.1.113	Capacitor	Capacitor,C43,4.7uF± 10% 50V X5R 0603	1	0.021936793	0.021936793	0.32647156%
2.1.114	Capacitor	Capacitor,C87,10uF±1 0% 50V X5R 0805	1	0.024903232	0.024903232	0.37061384%
2.1.115	Capacitor	Capacitor,C124,22uF± 10% 50V X5R 1206	1	0.025159949	0.025159949	0.37443435%
2.1.116	Capacitor	Capacitor,C135,47uF± 20% 10V X5R 1206	1	0.031379141	0.031379141	0.46698937%
2.1.117	Capacitor	Capacitor,C269,0.33u F±10% 50V,X7R,0402	1	0.01724082	0.01724082	0.25658082%
2.1.118	Capacitor	Capacitor,C241,2.2uF ±10% 25V X5R 0402	1	0.020434044	0.020434044	0.30410269%
2.1.119	Capacitor	Capacitor,C1652,0.01 uF±10% 100V X7R 0402	1	0.012576669	0.012576669	0.18710784%

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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.120	Capacitor	Capacitor,C140,0.22u F ±10% 50V X5R 0402	1	0.016623013	0.016623013	0.24738632%
2.1.121	Capacitor	Capacitor,C220,0.22u F ±10% 50V X5R 0402	1	0.016623013	0.016623013	0.24738632%
2.1.122	Capacitor	Capacitor,C229,0.22u F ±10% 50V X5R 0402	1	0.016623013	0.016623013	0.24738632%
2.1.123	Capacitor	Capacitor,C125,22uF± 20%50V X5R 0805	1	0.025126899	0.025126899	0.37394249%
2.1.124	Capacitor	Capacitor,C127,22uF± 20%50V X5R 0805	1	0.025126899	0.025126899	0.37394249%
2.1.125	Capacitor	Capacitor,C1642,22uF ±20%50V X5R 0805	1	0.025128115	0.025128115	0.37396058%
2.1.126	Capacitor	Capacitor,C126,22uF± 20%50V X5R 0805	1	0.025242832	0.025242832	0.37566784%
2.1.127	Capacitor	Capacitor,C86,22uF±2 0%50V X5R 0805	1	0.025128115	0.025128115	0.37396058%
2.1.128	Capacitor	Capacitor,C270,22uF± 20%50V X5R 0805	1	0.025159949	0.025159949	0.37443435%
2.1.129	Capacitor	Capacitor,C87,10uF±1 0% 25V X5R 0805	1	0.023417277	0.023417277	0.34849983%
2.1.130	Capacitor	Capacitor,C130,10uF± 10% 25V X5R 0805	1	0.023513651	0.023513651	0.34993369%
2.1.131	Capacitor	Capacitor,C49,4.7uF± 10% 50V X5R 0603	1	0.021869086	0.021869086	0.32545921%

Analyst N.Venkata Naga Aravind
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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.132	Capacitor	Capacitor,C56,4.7uF+ 10% 50V	1	0.021872411	0.021872411	0.32550868%
2.1.133	Capacitor	Capacitor,C61,4.7uF± 10% 50V	1	0.021896793	0.021896793	0.32587156%
2.1.134	Capacitor	Capacitor,C197,4.7uF ±10% 50V	1	0.021896793	0.021896793	0.32587156%
2.1.135	Capacitor	Capacitor,C199,4.7uF ±10% 50V	1	0.021896793	0.021896793	0.32587156%
2.1.136	Capacitor	Capacitor,C301,4.7uF ±10% 50V	1	0.021896793	0.021896793	0.32587156%
2.1.137	Capacitor	Capacitor,C42,10uF+1 0% 25V X5R 0805	1	0.023417277	0.023417277	0.34849963%
2.1.138	Capacitor	Capacitor,C209,10uF± 10% 25V X5R 0805	1	0.035388801	0.035388801	0.52666175%
2.1.139	Capacitor	Capacitor,C213,10uF± 10% 25V X5R 0805	1	0.035388801	0.035388801	0.52666175%
2.1.140	Capacitor	Capacitor,C218,10uF± 10% 25V X5R 0805	1	0.035388801	0.035388801	0.52666175%
2.1.141	Capacitor	Capacitor,C256,10uF± 10% 25V X5R 0805	1	0.023654513	0.023654513	0.35203022%
2.1.142	Capacitor	Capacitor,C57,1uF ±10% 50V X5R 0402	1	0.019029645	0.019029645	0.28318733%
2.1.143	Capacitor	Capacitor,C62,1uF ±10% 50V X5R 0402	1	0.019049857	0.019049857	0.283503%
2.1.144	Capacitor	Capacitor,C65,1uF ±10% 50V X5R 0402	1	0.019024896	0.019024896	0.28313151%
2.1.145	Capacitor	Capacitor,C68,1uF ±10% 50V X5R 0402	1	0.019029645	0.019029645	0.28318733%

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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.146	Capacitor	Capacitor,C73,1uF ±10% 50V X5R 0402	1	0.019049857	0.019049857	0.283503%
2.1.147	Capacitor	Capacitor,C142,1uF ±10% 50V X5R 0402	1	0.019049857	0.019049857	0.283503%
2.1.148	Capacitor	Capacitor,C145,1uF ±10% 50V X5R 0402	1	0.019049857	0.019049857	0.283503%
2.1.149	Capacitor	Capacitor,C155,1uF ±10% 50V X5R 0402	1	0.019112611	0.019112611	0.28443691%
2.1.150	Capacitor	Capacitor,C249,1uF ±10% 50V X5R 0402	1	0.025159949	0.025159949	0.37443435%
2.1.151	Capacitor	Capacitor,C134,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%
2.1.152	Capacitor	Capacitor,C141,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%
2.1.153	Capacitor	Capacitor,C143,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%
2.1.154	Capacitor	Capacitor,C144,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%
2.1.155	Capacitor	Capacitor,C157,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%
2.1.156	Capacitor	Capacitor,C160,0.1uF ±10% 50V X5R 0402	1	0.015535313	0.015535313	0.231199%
2.1.157	Capacitor	Capacitor,C102,0.1uF ±10% 50V X5R 0402	1	0.0164534	0.0164534	0.24486211%
2.1.158	Capacitor	Capacitor,C181,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%
2.1.159	Capacitor	Capacitor,C183,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%

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Name	Category Description	Description	Quantity	Failure Rate	NoFailure Rate	Percent Contribution
2.1.160	Capacitor	Capacitor,C185,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%
2.1.161	Capacitor	Capacitor,C187,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%
2.1.162	Capacitor	Capacitor,C189,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%
2.1.163	Capacitor	Capacitor,C196,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%
2.1.164	Capacitor	Capacitor,C198,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%
2.1.165	Capacitor	Capacitor,C206,0.1uF ±10% 50V X5R 0402	1	0.015535313	0.015535313	0.231198%
2.1.166	Capacitor	Capacitor,C210,0.1uF ±10% 50V X5R 0402	1	0.0164534	0.0164534	0.24486211%
2.1.167	Capacitor	Capacitor,C211,0.1uF ±10% 50V X5R 0402	1	0.0164534	0.0164534	0.24486211%
2.1.168	Capacitor	Capacitor,C212,0.1uF ±10% 50V X5R 0402	1	0.0164534	0.0164534	0.24486211%
2.1.169	Capacitor	Capacitor,C215,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%
2.1.170	Capacitor	Capacitor,C219,0.1uF ±10% 50V X5R 0402	1	0.0164534	0.0164534	0.24486211%
2.1.171	Capacitor	Capacitor,C225,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%
2.1.172	Capacitor	Capacitor,C228,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%
2.1.173	Capacitor	Capacitor,C232,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%

Analyst : N.Venkata Naga Aravind.
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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.174	Capacitor	Capacitor,C235,0.1uF ±10% 50V X5R 0402	1	0.015464712	0.015464712	0.23014583%
2.1.175	Capacitor	Capacitor,C237,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%
2.1.176	Capacitor	Capacitor,C239,0.1uF ±10% 50V X5R 0402	1	0.015472672	0.015472672	0.23026676%
2.1.177	Capacitor	Capacitor,C260,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%
2.1.178	Capacitor	Capacitor,C283,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%
2.1.179	Capacitor	Capacitor,C287,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%
2.1.180	Capacitor	Capacitor,C288,0.1uF ±10% 50V X5R 0402	1	0.015467062	0.015467062	0.23018327%
2.1.181	Capacitor	Capacitor,C334,0.1uF ±10% 50V X5R 0402	1	0.015463915	0.015463915	0.23013645%
2.1.182	Capacitor	Capacitor,C847,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%
2.1.183	Capacitor	Capacitor,C1631,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%
2.1.184	Capacitor	Capacitor,C55,0.1uF ±10% 50V X5R 0402	1	0.015464712	0.015464712	0.23014583%
2.1.185	Capacitor	Capacitor,C271,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%
2.1.186	Capacitor	Capacitor,C300,0.1uF ±10% 50V X5R 0402	1	0.015484304	0.015484304	0.23043987%
2.1.187	Capacitor	Capacitor,C66,0.1uF ±10% 50V X5R 0201	1	0.015464712	0.015464712	0.23014583%

Analyst : N.Venkata Naga Aravind
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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.188	Capacitor	Capacitor,C89,0.1uF ±10% 50V X5R0201	1	0.015464712	0.015464712	0.23014483%
2.1.189	Capacitor	Capacitor,C111,0.1uF ±10% 50V X5R 0201	1	0.015472672	0.015472672	0.23026676%
2.1.190	Capacitor	Capacitor,C112,0.1uF ±10% 50V X5R 0201	1	0.015472672	0.015472672	0.23026676%
2.1.191	Capacitor	Capacitor,C846,0.1uF ±10% 50V X5R 0201	1	0.015464712	0.015464712	0.23014483%
2.1.192	Capacitor	Capacitor,C20,0.1uF ±10% 50V X5R 0201	1	0.015463963	0.015463963	0.23013715%
2.1.193	Capacitor	Capacitor,C21,0.1uF ±10% 50V X5R 0201	1	0.015463963	0.015463963	0.23013715%
2.1.194	Capacitor	Capacitor,C22,0.1uF ±10% 50V X5R 0201	1	0.015463963	0.015463963	0.23013715%
2.1.195	Capacitor	Capacitor,C23,0.1uF ±10% 50V X5R 0201	1	0.015463963	0.015463963	0.23013715%
2.1.196	Capacitor	Capacitor,C24,0.1uF ±10% 50V X5R 0201	1	0.015463963	0.015463963	0.23013715%
2.1.197	Capacitor	Capacitor,C25,0.1uF ±10% 50V X5R 0201	1	0.015484304	0.015484304	0.23043987%
2.1.198	Capacitor	Capacitor,C26,0.1uF ±10% 50V X5R 0201	1	0.015463963	0.015463963	0.23013715%
2.1.199	Capacitor	Capacitor,C27,0.1uF ±10% 50V X5R 0201	1	0.015463963	0.015463963	0.23013715%
2.1.200	Capacitor	Capacitor,C29,0.1uF ±10% 50V X5R 0201	1	0.015463963	0.015463963	0.23013715%
2.1.201	Capacitor	Capacitor,C30,0.1uF± 10%,50V,X5R,0201	1	0.015463963	0.015463963	0.23013715%

Analyst : N.Venkata Naga Aravind
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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.202	Capacitor	Capacitor,C31,0.1uF±10%,50V,X5R,0201	1	0.015463963	0.015463963	0.23013715%
2.1.203	Capacitor	Capacitor,C32,0.1uF±10%,50V,X5R,0201	1	0.015463963	0.015463963	0.23013715%
2.1.204	Capacitor	Capacitor,C33,0.1uF±10%,50V,X5R,0201	1	0.015463963	0.015463963	0.23013715%
2.1.205	Capacitor	Capacitor,C34,0.1uF±10%,50V,X5R,0201	1	0.015463963	0.015463963	0.23013715%
2.1.206	Capacitor	Capacitor,C35,0.1uF±10%,50V,X5R,0201	1	0.015463963	0.015463963	0.23013715%
2.1.207	Capacitor	Capacitor,C36,0.1uF±10%,50V,X5R,0201	1	0.015463963	0.015463963	0.23013715%
2.1.208	Capacitor	Capacitor,C37,0.1uF±10%,50V,X5R,0201	1	0.015463963	0.015463963	0.23013715%
2.1.209	Capacitor	Capacitor,C38,0.1uF±10%,50V,X5R,0201	1	0.015463963	0.015463963	0.23013715%
2.1.210	Capacitor	Capacitor,C39,0.1uF±10%,50V,X5R,0201	1	0.015463963	0.015463963	0.23013715%
2.1.211	Capacitor	Capacitor,C40,0.1uF±10%,50V,X5R,0201	1	0.015463963	0.015463963	0.23013715%
2.1.212	Capacitor	Capacitor,C41,0.1uF±10%,50V,X5R,0201	1	0.015463963	0.015463963	0.23013715%
2.1.213	Capacitor	Capacitor,C44,0.1uF±10%,50V,X5R,0201	1	0.015464712	0.015464712	0.2301453%
2.1.214	Capacitor	Capacitor,C45,0.1uF±10%,50V,X5R,0201	1	0.015464712	0.015464712	0.2301453%
2.1.215	Capacitor	Capacitor,C46,0.1uF±10%,50V,X5R,0201	1	0.015464304	0.015464304	0.23043987%

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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.216	Capacitor	Capacitor,C47,0.1uF± 10%,50V,X5R,0201	1	0.015464712	0.015464712	0.2301483%
2.1.217	Capacitor	Capacitor,C48,0.1uF± 10%,50V,X5R,0201	1	0.015464712	0.015464712	0.2301483%
2.1.218	Capacitor	Capacitor,C50,0.1uF± 10%,50V,X5R,0201	1	0.015464712	0.015464712	0.2301483%
2.1.219	Capacitor	Capacitor,C51,0.1uF± 10%,50V,X5R,0201	1	0.015464712	0.015464712	0.2301483%
2.1.220	Capacitor	Capacitor,C52,0.1uF± 10%,50V,X5R,0201	1	0.015464712	0.015464712	0.2301483%
2.1.221	Capacitor	Capacitor,C52,0.1uF± 10%,50V,X5R,0201	1	0.015464712	0.015464712	0.2301483%
2.1.222	Capacitor	Capacitor,C54,0.1uF± 10%,50V,X5R,0201	1	0.015464712	0.015464712	0.2301483%
2.1.223	Capacitor	Capacitor,C55,0.1uF± 10%,50V,X5R,0201	1	0.015464712	0.015464712	0.2301483%
2.1.224	Diode, Low Frequency	Diode, Low Frequency,D7,TVS Bi, 15V,1500W,SMC	1	0.16474132	0.16474132	2.4517064%
2.1.225	Diode, High Frequency	Diode, High Frequency,D6,3.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER	1	0	0	0%
2.1.226	Diode, Low Frequency	Diode, Low Frequency,D111,Thyristors Solid Prolection Device Bedirectional transient voltage suppressors	1	0.16474132	0.16474132	2.4517064%

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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.227	Diode, Low Frequency	Diode, Low Frequency,D112,Thyristors Solid Protection Device Bidirectional transient voltage suppressors	1	0.16474132	0.16474132	2.4517064%
2.1.228	Diode, Low Frequency	Diode Low Frequency,D10,High Property Device for Surge & ESD	1	0.082370661	0.082370661	1.2258532%
2.1.229	Diode, Low Frequency	Diode, Low Frequency,D11,High Property Device for Surge & ESD	1	0.082370661	0.082370661	1.2258532%
2.1.230	Diode High Frequency	Diode, High Frequency,D9,Schottky Barrier Diode	1	0.21028864	0.21028864	3.129549%
2.1.231	Quartz Crystal	Quartz Crystal,X1,24MHz,SMD 3.2*2.5mm,20pF,±20PPM	1	0.08100526	0.08100526	1.2055331%
2.1.232	Quartz Crystal	Quartz Crystal,X2,32.768KHz,12.5pF,±20PPM,3.2*1.5,SMD	1	0.017767163	0.017767163	0.26441374%
2.1.233	Connector, General	Connector, General,J2,Conn, B2C,TB, Male, 1x3, 1.25mm, SMD	1	0.2394121	0.2394121	3.562969%

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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.234	Connector, General	Connector, General,J6,Conn, B2C,TB, Male, 1x5, 1.25mm, SMD	1	0.23896429	0.23896429	3.5583045%
2.1.235	Connector, General	Connector, General,J15,Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1	0.2394121	0.2394121	3.562969%
2.1.236	Connector, General	Connector, General,J29,Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1	0.2394121	0.2394121	3.562969%
2.1.237	Connector, General	Connector, General,J1,Conn, B2C,TB, Male, 1x4 1.25mm, SMD	1	0.2394121	0.2394121	3.562969%
2.1.238	Connector, General	Connector, General,J12,Conn, B2C,TB, Male, 1x4,1.25mm, SMD	1	0.2394121	0.2394121	3.562969%
2.1.239	Connector, General	Connector, General,J8,Conn, B2C, Male, 1x2, 1.25mm, ST, SMD	1	0.23897392	0.23897392	3.5564477%
2.1.240	Connector, General	Connector, General,J10,Conn, B2C, Male 1x2, 1.25mm, ST, SMD	1	0.2394121	0.2394121	3.562969%
2.1.241	Connector, General	Connector, General,J3,Conn, B2C, Male, 1x10, 1.25mm, ST, SMD	1	0.2394121	0.2394121	3.562969%

Analyst : N.Venkata Naga Aravind
Compiled By:V.Jambulingam:
Approved By : R.Radhika:

Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.242	Connector, General	Connector, General,57,Conn, B2C, Male, 1x12, 1.25mm, ST, SMD	1	0.23902684	0.23902684	3.557355%
2.1.243	Connector, General	Connector, General,35,0.5mm FFC/FPC DUAL CONTACT SIDE CONNECTOR	1	0.2394121	0.2394121	3.562969%
2.1.244	Micro, Linear	Micro, Linear U18,DIFFERENTIAL BUS TRANSCEIVERS	1	0.010204428	0.010204428	0.151883925%
2.1.245	Micro, Linear	Micro, Linear,U61, 1A high-efficiency synchronous step-down converter	1	0.0080963331	0.0080963331	0.120520685%
2.1.246	Micro, Linear	Micro, Linear,U60,300-mA, Low-Dropout Regulator	1	0.0080963331	0.0080963331	0.120520685%
2.1.247	Micro, Linear	Micro, Linear,U21,2A high-efficiency synchronous step-down converter	1	0.0080963331	0.0080963331	0.120520685%
2.1.248	Micro, Linear	Micro, Linear,U50,2A high-efficiency synchronous step-down converter	1	0.0080963331	0.0080963331	0.120520685%

Analyst : N Venkata Naga Aravind
Compiled By:V.Jambulingam
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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.249	Micro, Linear	Micro, Linear,U51,2A high-efficiency synchronous step-down converter	1	0.0080983331	0.0080983331	0.120520685%
2.1.250	Micro, Linear	Micro, Linear,U20,2A synchronous step-down converter	1	0.0087914346	0.0087914346	0.130835526%
2.1.251	Micro, Linear	Micro, Linear,U9, 2-Bit, 2-Supply, Bus Transceiver with Configurable Level-ShiftingTranslation and 3-State Outputs and	1	0.010204428	0.010204428	0.151960392%
2.1.252	Micro, Linear	Micro, Linear,U34,microprocessor (7P) supervisorycircuits	1	0.0074163042	0.0074163042	0.110370615%
2.1.253	Micro, Linear	Micro, Linear,U19,2A synchronous step-down converter	1	0.0087914346	0.0087914346	0.130835526%
2.1.254	Micro, Digital	Micro, Digital,IC,SERIAL NAND, 2Gb,WSON8	1	0.0076474766	0.0076474766	0.113810964%
2.1.255	Micro, Not EEPROM	Micro, Not EEPROM,U15,IC MEM,4Gb,1200MHz, DDR4,BGA96	1	0.080929741	0.080929741	1.2044092%

Analyst : N.Venkata Naga Aravind
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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
1 1.256	External	External,Digital,U1,IC, OV2656M, Smbarella vision processor,VFBGA-288 0.65_11*12mm	1	0.01074	0.01074	0.15983436%
1.1.257	External	External,U25,300-mA, Low-Dropout regulator	1	0.063277997	0.063277997	0.941713211%
1 1 258	Micro, Linear	Micro, Linear,U54,10/100Mb ps single-port Physical Layer transceiver	1	0.025383623	0.025383623	0.377763121%

Analyst : N.Venkata Naga Aravind
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Annexure- III

PI FACTORS REPORT

(Temperature 40℃)

MIL- HDBK- 217F Pi FACTORS REPORT

Name: SC-IN022XP-I(Z)(S)
Failure Rate: 9.7008247
MTBF: 103084.02

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1	Block,ImageSensor IMX335	1		2.9813693	2.9813693
1.1	IA, Surface Mount Techn	1	SMT Rate=0.21820916, Thermal Cycle Failure=595758.63, Strain Range=3.15e-5, Eff Cum Failures=0.13, Temperature Rise (degC)=4.5; Environment Temp Diff=2; Lead Configuration=1	2.9813693	2.9813693
	Resistor,R71,4.99K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.72579306;	0.0050806045	0.0050806045
	Resistor,R72,4.99K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.72579306;	0.0050806045	0.0050806045
1.1.3	Resistor,R71.10K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71019995;	0.0049714521	0.0049714521
1.1.4	Resistor,R73.10K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71019995;	0.0049714521	0.0049714521
1.1.5	Resistor,R75.10K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231 Power=0.40738028; Stress=0.71019995;	0.0049714521	0.0049714521

Analyst : N.Venkata Naga Aravind:
Compiled By :V Jambulingam:
Approved By : R Radhika:

Name	Description	Quantity	Pi Factors Ah	Failure Rate	NxFailure Rate
1.1.6	Resistor,R198,10K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231. Power=0.40738028; Stress=0.72373939.	0.005066229	0.005066229
1.1.7	Resistor,R191,10K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028, Stress=0.72373939;	0.005066229	0.005066229
1.1.8	Resistor,R197,10K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1; Temperature=1.1610231. Power=0.40738028; Stress=0.72373939;	0.005066229	0.005066229
1.1.9	Resistor,R202,10K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028, Stress=0.72373939;	0.005066229	0.005066229
1.1.10	Resistor,R201,10K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231. Power=0.40738028; Stress=0.72373939;	0.005066229	0.005066229
1.1.11	Resistor,RT19,4.7K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037 Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71866214;	0.0050306874	0.0050306874
1.1.12	Resistor,R303,2K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037. Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028, Stress=0.78078902;	0.0054655802	0.0054655802
1.1.13	Resistor,R305,2K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231. Power=0.40738028; Stress=0.78078902;	0.0054655802	0.0054655802
1.1.14	Resistor,RT21,1K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1. Temperature=1.1610231 Power=0.40738028; Stress=0.72019422;	0.0050414125	0.0050414125

Analyst : N.Venkata Naga Aravind.
Compiled By : V.Jambulingam.
Approved By : R.Radhika.

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.".15	Resistor,RT22 1K?±1 % 0402	1	Base Failure Rate (fpmh)=0.0037 Environment=4, Quality=1. Temperature=1.1610231: Power=0.40738028; Stress=0.72019422;	0.0050414125	0.0050414125
1".16	Resistor,RT15 1K?±? % 0402	1	Base Failure Rate (fpmh)=0.0037 Environment=4; Quality=1 Temperature=1.1610231: Power=0.40738028; Stress=0.75166363,	0.0052617006	0.0052617006
1.".17	Resistor,RT16 1K?±1 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1. Temperature=1.1610231 Power=0.40738028; Stress=0.75166363;	0.0052617006	0.0052617006
1.".18	Resistor,R1.0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4, Quality=1. Temperature=1.1610231. Power=0.40738028; Stress=0.70999998,	0.0049700518	0.0049700518
	Resistor,R413.0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231 Power=0.40738028; Stress=0.70999998,	0.0049700518	0.0049700518
	Resistor,R420.0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1, Temperature=1.1610231: Power=0.40738028, Stress=0.70999995;	0.0049700518	0.0049700518
1.".21	Resistor,R421.0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231. Power=0.40738028, Stress=0.70999998,	0.0049700518	0.0049700518
1.".22	Resistor,R422.0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1, Temperature=1.1610231. Power=0.40738028; Stress=0.70999998,	0.0049700516	0.0049700516
1.".23	Resistor,R423.0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1. Temperature=1.1610231. Power=0.40738028; Stress=0.70999998;	0.0049700518	0.0049700518

Analyst : N Venkata Naga Aravind:
Compiled By :V Jambulingam:
Approved By : R Rachiks

Name	Description	Quantity	PI Factors All	Failure Rate	NoFailure Rate
1.1.24	Resistor R424,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71760046;	0.0050232559	0.0050232559
1.1.25	Resistor R425,0?±5 %, 0402	1	Base Failure Rate (fpmh)=0.0037. Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.70999998.	0.0049700518	0.0049700518
1.1.26	Resistor,R194,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.70999998	0.0049700518	0.0049700518
1.1.27	Resistor,R72,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.70999998	0.0049700518	0.0049700518
1.1.28	Resistor,R117,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.70999998;	0.0049700518	0.0049700518
1.1.29	Resistor,R118,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1 Temperature=1.1610231; Power=0.40738028; Stress=0.70999998;	0.0049700518	0.0049700518
1.1.30	Resistor,FB1,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037. Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.70999998;	0.0049700518	0.0049700518
1.1.31	Resistor,FB2,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1, Temperature=1.1610231. Power=0.40738028; Stress=0.70999998;	0.0049700518	0.0049700518
1.1.32	Resistor,FB3,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037. Environment=4, Quality=1. Temperature=1.1610231; Power=0.40738028; Stress=0.70999998	0.0049700518	0.0049700518

Analyst : N.Venkata Naga Aravind
Compiled By : V.Jambulingam
Approved By : R Radhika

Name	Description	Quantity	PI Factors All	Failure Rate	NxFailure Rate
1.1.33	Resistor,FB4,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1 Temperature=1.1610231; Power=0.40738028; Stress=0.70999998;	0.0049700518	0.0049700518
1.1.34	Resistor,R1,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231. Power=0.40738028; Stress=0.70999998,	0.0049700518	0.0049700518
1.1.35	Resistor,R2,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.70999998;	0.0049700518	0.0049700518
1.1.36	Resistor R3,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71755046;	0.0050232559	0.0050232559
1.1.37	Resistor,R210,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1. Temperature=1.1610231; Power=0.40738028; Stress=0.70999998;	0.0049700518	0.0049700518
	Resistor R211,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.70999998;	0.0049700518	0.0049700518
1.1.39	Resistor,R212,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231, Power=0.40738028; Stress=0.70999998;	0.0049700518	0.0049700518
1.1.40	Resistor,R213,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231, Power=0.40738028; Stress=0.70999998,	0.0049700518	0.0049700518
1.1.41	Resistor,R214,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.70999998.	0.0049700518	0.0049700518

Analyst : N.Venkata Naga Aravind:
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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.42	Resistor,R215,07±5 %,0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.70999998	0.0049700518	0.0049700518
1.1.43	Resistor,R210,07±5 %,0402	1	Base Failure Rate (fpmh)=0.0037 Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028, Stress=0.70999998,	0.0049700518	0.0049700518
1.1.44	Resistor,R219,07±5 %,0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1; Temperature=1.1610231, Power=0.40738028; Stress=0.70999995;	0.0049700518	0.0049700518
1.1.45	Capacitor,C65,22pF± 5% 50V NP0 0402	1	Base Failure Rate (fpmh)=0.00099999997 Environment=10; Quality=1; Temperature=1.9216702, Capacitance=0.38090619; Stress=1.001331; Circuit Resistance=1;	0.0072562085	0.0072562085
1.1.46	Capacitor,C66,22pF± 5% 50V NP0 0402	1	Base Failure Rate (fpmh)=0.00099999997, Environment=10, Quality=1 Temperature=1.9216702; Capacitance=0.38090619, Stress=1.001331, Circuit Resistance=1;	0.0072562085	0.0072562085
1.1.47	Capacitor,C12,1000p F±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00099999997 Environment=10; Quality=1; Temperature=1.9216702, Capacitance=0.53703177; Stress=1.000210; Circuit Resistance=1.	0.0102189985	0.0102189985
1.1.48	Capacitor,C25,0.22u F±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00008999997; Environment=10; Quality=1, Temperature=1.9216702, Capacitance=0.87260568; Stress=1.001331; Circuit Resistance=1,	0.016623013	0.016623013
1.1.49	Capacitor,C11,1uF±10 %,50V X5R,0402	1	Base Failure Rate (fpmh)=0.00099999997; Environment=10, Quality=1; Temperature=1.9216702; Capacitance=1, Stress=1.001331; Circuit Resistance=1;	0.0190493657	0.0190493657

Analyst :N.Venkata Naga Aravind.
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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.50	Capacitor,C2,1uF±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1 Stress=1.001331 Circuit Resistance=1;	0.019049857	0.019049857
1.1.51	Capacitor,C350,2.2uF±10% 50V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.0735395 Stress=1.001331; Circuit Resistance=1;	0.020450771	0.020450771
1.1.52	Capacitor,C352 2.2uF±10% 50V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1 Temperature=1.9216702; Capacitance=1.0735395; Stress=1.001331, Circuit Resistance=1;	0.020450771	0.020450771
1.1.53	Capacitor,C357 2.2uF±10% 50V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.0735395 Stress=1.001331; Circuit Resistance=1,	0.020450771	0.020450771
1.1.54	Capacitor C2,10uF±10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10 Quality=1, Temperature=1.9216702; Capacitance=1.2302688. Stress=1.0038805; Circuit Resistance=1.	0.023496117	0.023496117
1.1.55	Capacitor,C4,10uF±10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.2302688; Stress=1.0134975; Circuit Resistance=1;	0.023721205	0.023721205
1.1.56	Capacitor,C6,10uF±10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997 Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.2302688. Stress=1.0134975; Circuit Resistance=1;	0.023721205	0.023721205

Analyst : N.Venkata Naga Aravind
Compiled By : V.Jambulingam
Approved By : R.Radhika

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
C1.57	Capacitor,C10,10uF± 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.00099999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.2302698; Stress=1.0006298, Circuit Resistance=1;	0.023420034	0.023420034
1.1.58	Capacitor,C13,10uF± 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.00099999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.2302682; Stress=1.0134975; Circuit Resistance=1,	0.023721205	0.023721205
1.1.59	Capacitor,C15,10uF± 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.00099999997; Environment=10; Quality=1, Temperature=1.9216702; Capacitance=1.2302688; Stress=1.0001866; Circuit Resistance=1,	0.023409659	0.023409659
	Capacitor,C22,10uF± 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.00099999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.2302685; Stress=1.0001866, Circuit Resistance=1	0.023409659	0.023409659
1.1.61	Capacitor,C29,10uF± 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.00099999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.2302688; Stress=1.0001866, Circuit Resistance=1,	0.023409659	0.023409659
1.1.62	Capacitor,C30,10uF± 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.00099999997; Environment=10, Quality=1 Temperature=1.9216702, Capacitance=1.2302688; Stress=1.0029155 Circuit Resistance=1,	0.023473531	0.023473531
1.1.63	Capacitor,C44,10uF± 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.00099999997; Environment=10, Quality=1, Temperature=1.9216702, Capacitance=1.2302688; Stress=1.0026336; Circuit Resistance=1;	0.023466034	0.023466034

Analyst : N.Venkata Naga Aravind
Compiled By : V.Jambulingam
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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.64	Capacitor,C48,10uF± 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.000999999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.2302655; Stress=1.0026336; Circuit Resistance=1;	0.023466934	0.023466934
1.1.65	Capacitor,C74,10uF± 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.000999999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.2302655; Stress=1.0038805; Circuit Resistance=1;	0.023496117	0.023496117
1.1.66	Capacitor,C76,10uF± 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.000999999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.2302655; Stress=1.0001866; Circuit Resistance=1;	0.023409659	0.023409659
	Capacitor,C78,10uF± 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.000999999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.2302655; Stress=1.0038805; Circuit Resistance=1;	0.023496117	0.023496117
	Capacitor,C85,10uF± 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.000999999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.2302655; Stress=1.0038805; Circuit Resistance=1;	0.023496117	0.023496117
1.1.69	Capacitor,C92,10uF± 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.000999999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.2302655; Stress=1.0134975; Circuit Resistance=1;	0.023721205	0.023721205
1.1.70	Capacitor,C96,10uF± 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.000999999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.2302655; Stress=1.0026336; Circuit Resistance=1;	0.023466934	0.023466934

Analyst : N Venkata Naga Aravind;
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Approved By : R Radhika

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.71	Capacitor C161,10uF ±10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.000989999997, Environment=10, Quality=1; Temperature=1.9216702, Capacitance=1.2302688; Stress=1.0006298; Circuit Resistance=1,	0.023420034	0.023420034
1.1.72	Capacitor,C252,10uF ±10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.000989999997, Environment=10, Quality=1; Temperature=1.9216702; Capacitance=1.2302688; Stress=1.0134975, Circuit Resistance=1,	0.023721205	0.023721205
1.1.73	Capacitor,C206 10uF ±10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.000989999997; Environment=10, Quality=1, Temperature=1.9216702; Capacitance=1.2302688; Stress=1.0134975, Circuit Resistance=1;	0.023721205	0.023721205
1.1.74	Capacitor,C14,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000989999997; Environment=10; Quality=1, Temperature=1.9216702 Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1	0.015464712	0.015464712
1.1.75	Capacitor C16,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000989999997; Environment=10, Quality=1 Temperature=1.9216702; Capacitance=0.81283051; Stress=1.000064, Circuit Resistance=1;	0.015464712	0.015464712
1.1.76	Capacitor,C16,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000989999997; Environment=10; Quality=1; Temperature=1.9216702 Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1,	0.015464712	0.015464712
1.1.77	Capacitor,C19,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000989999997; Environment=10; Quality=1 Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0009032; Circuit Resistance=1,	0.015477689	0.015477689

Analyst : N.Venkata Naga Aravind
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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.78	Capacitor,C20,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.015464712	0.015464712
1.1.79	Capacitor,C21,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0000032; Circuit Resistance=1;	0.015477689	0.015477689
1.1.80	Capacitor,C23,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997 Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.015464712	0.015464712
	Capacitor,C24,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.015464712	0.015464712
	Capacitor,C26,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.015464712	0.015464712
1.1.83	Capacitor,C27,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.015484304	0.015484304
1.1.84	Capacitor,C31,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0009032; Circuit Resistance=1;	0.015477689	0.015477689

Analyst : N.Venkata Naga Aravind
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Approved By : R.Radhika

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.85	Capacitor,C32,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000998999997, Environment=10, Quality=1; Temperature=1.9216702; Capacitance=0.81223051; Stress=1.0009032; Circuit Resistance=1;	0.015477069	0.015477689
1.1.86	CapacitorC33,0.1uF± 10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000998999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0009032, Circuit Resistance=1;	0.015477689	0.015477689
1.1.87	CapacitorC34,0.1uF± 10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000998999997, Environment=10; Quality=1, Temperature=1.9216702; Capacitance=0.81283051, Stress=1.0009032; Circuit Resistance=1;	0.015477689	0.015477689
1.1.88	CapacitorC35,0.1uF± 10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000998999997, Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0009032; Circuit Resistance=1	0.015477689	0.015477689
1.1.89	CapacitorC36,0.1uF± 10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000998999997; Environment=10, Quality=1. Temperature=1.9216702; Capacitance=0.81283051, Stress=1.0002167 Circuit Resistance=1;	0.015467062	0.015467062
1.1.90	Capacitor,C37,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000998999997 Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0002167 Circuit Resistance=1,	0.015467062	0.015467062
1.1.91	Capacitor,C38,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000998999997; Environment=10, Quality=1. Temperature=1.9216702; Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.015464712	0.015464712

Analyst : N.Venkata Naga Aravind
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Approved By : R.Radhika

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.92	Capacitor,C39,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000999999997 Environment=10, Quality=1; Temperature=1.9216702; Capacitance=0.81283051, Stress=1.000064, Circuit Resistance=1,	0.015464712	0.015464712
1.1.93	Capacitor,C40,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000999999997, Environment=10; Quality=1, Temperature=1.9216702; Capacitance=0.81283051, Stress=1.0009032; Circuit Resistance=1;	0.015477689	0.015477689
1.1.94	Capacitor,C41,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000999999997, Environment=10, Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1,	0.015464712	0.015464712
	Capacitor,C42,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000999999997, Environment=10, Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.000133; Circuit Resistance=1,	0.015464304	0.015464304
	Capacitor,C43,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000999999997; Environment=10, Quality=1, Temperature=1.9216702; Capacitance=0.81283051, Stress=1.000064; Circuit Resistance=1,	0.015464712	0.015464712
1.1.97	Capacitor,C45,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000999999997; Environment=10, Quality=1 Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0009032; Circuit Resistance=1;	0.015477689	0.015477689
1.1.98	Capacitor,C46,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000999999997, Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051, Stress=1.000064; Circuit Resistance=1;	0.015464712	0.015464712

Analyst : N.Venkata Naga Aravind.
Compiled By :V Jambulingam.
Approved By : P Radhika.

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.99	Capacitor,C49,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000989999997 Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0009032; Circuit Resistance=1	0.015477639	0.015477639
1.1.100	Capacitor,C75,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000989999997, Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1	0.015484304	0.015484304
1.1.101	Diode, Low Frequency,D1,Schottky Barrier Diode	1	Base Failure Rate (fpmh)=0.003, Environment=6; Quality=5.5; Temperature=1.9200621; Stress=0.054000001, Contact Form=1,	0.010264653	0.010264653
1.1.102	Quartz Crystal,X2,24MHz SMD 3.2*2.5mm,20pF ±20 PPM	1	Base Failure Rate (fpmh)=0.027001753, Environment=3, Quality=1;	0.06100526	0.06100526
1.1.103	Connector, General,J2,Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.3011527;	0.2394121	0.2394121
1.1.104	Connector, General,J6,Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1	Base Failure Rate (fpmh)=0.046, Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.2987199;	0.23996429	0.23996429
1.1.105	Connector, General,J1,Conn, B2C,TB, Male, 1x4, 1.25mm, SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1, Quality=2; Mating/Unmating=2; Temperature=1.3011527;	0.2394121	0.2394121

Analyst ; N.Venkata Naga Aravind
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Approved By . R.Radhika.

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.106	Connector, General,J5,Conn, B2C,TB, Male, 1x6,1.25mm, SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.301527;	0.2394121	0.2394121
1.1.107	Connector, General J3,0.5mm FFC/FPC DUAL CONTACT SIDE CONNECTOR	1	Base Failure Rate (fpmh)=0.046, Environment=1; Quality=2, Mating/Unmating=2, Temperature=1.30;1527,	0.2394121	0.2394121
1.1.108	Coil,L4,Power inductor, 4.7uH,20%,2.0A,SM D	1	Base Failure Rate (fpmh)=2.9999999e-5; Environment=6, Quality=1; Temperature=1.41;02327,	0.00025384186	0.00025384186
	Coil,L3,Power inductor, 4.7uH,20%,2.0A,SM D	1	Base Failure Rate (fpmh)=2.9999999e-5; Environment=6; Quality=1, Temperature=1.3403709;	0.00024126675	0.00024126675
	Coil,L1,Power inductor, 2.2uH,20%,1.5A,SM D	1	Base Failure Rate (fpmh)=2.9999999e-5, Environment=6, Quality=1; Temperature=1.41102327	0.00025384186	0.00025384186
1.1.111	Coil,L5,Power inductor, 2.2uH,20%,1.5A,SM D	1	Base Failure Rate (fpmh)=2.9999999e-5, Environment=6, Quality=1; Temperature=1.41;02327,	0.00025384186	0.00025384186
1.1.112	Coil,L6,Power inductor, 2.2uH,20%,1.5A,SM D	1	Base Failure Rate (fpmh)=2.9999999e-5; Environment=6 Quality=1, Temperature=1.2439333;	0.00022990799	0.00022990799
1.1.113	Coil,L7,Power inductor, 2.2uH,20%,1.5A,SM D	1	Base Failure Rate (fpmh)=2.9999999e-5; Environment=6, Quality=1, Temperature=1.41;02327,	0.00025384186	0.00025384186

Analyst : N.Venkata Naga Aravind;
Compiled By :V Jambulingam;
Approved By : R.Radhika;

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.114	Coil,L24,Power inductor, 2.2uH,20%,1A,SMD	1	Base Failure Rate (fpmh)=2.9999999e-5; Environment=6; Quality=1. Temperature=1.4102327;	0.00025364186	0.00025364186
1.1.115	Micro, Linear,U2,Dual-channel ultra-low noise 256 micro-stepping low-voltage motor driver	1	Environment=2; Quality=1. Learning=1; Temperature=0.49 3581; Die Complexity Rate=0.0099999998. Package Rate=0.011822701;	0.028559153	0.028559153
1.1.116	Micro, Linear U8,Dual ground sense operational amplifier	1	Environment=2; Quality=1; Learning=1; Temperature=0.49 3581; Die Complexity Rate=0.0099999998; Package Rate=0.0026454736	0.010204428	0.010204428
1.1.117	Micro, Linear U14,300-mA, Low-Dropout Regulator	1	Environment=2. Quality=1; Learning=1; Temperature=0.49 3581; Die Complexity Rate=0.0099999998 Package Rate=0.001592376;	0.0080983331	0.0080983331
	Micro, Linear,U15,300-mA, Low-Dropout Regulator	1	Environment=2; Quality=1 Learning=1, Temperature=0.49 3581; Die Complexity Rate=0.0099999998, Package Rate=0.001592376,	0.0080983331	0.0080983331
1.1.119	Micro, Linear,U18,300-mA Low-Dropout Regulator	1	Environment=2; Quality=1; Learning=1; Temperature=0.4913581, Die Complexity Rate=0.0099999998; Package Rate=0.001592376;	0.0080983331	0.0080983331
1.1.120	External,IMX335,Image Sensor,Diagonal 6.43mm(Type 1/2.8) CMOS Solid-state Image Sensor	1	Base Failure Rate (fpmh)=0.16; Temperature=1,	0.16	0.16
2	Block,MainBoard(CPU) CV28s53m	1		6.7194552	6.7194552

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1	IA Surface Mount Tech	1	SMT Rate=0.21820916; Thermal Cyc to Failure=395758.63; Strain Range=3.15e-5; EF Cum Failures=0.13; Temperature Rise (degC)=4.5; Environment Temp Diff=21; Lead Configuration=1;	6.7194552	6.7194552
2.1.1	Resistor,R155.10K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71044996;	0.004973202	0.004973202
2.1.2	Resistor,R20.54.9K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71412307;	0.004996914	0.004996914
2.1.3	Resistor,R24.31.6K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71257853;	0.004986141	0.004986141
2.1.4	Resistor,R154.20K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1 Temperature=1.1610231; Power=0.40738028; Stress=0.71090026;	0.004976536	0.004976536
2.1.5	Resistor,R160.25.5K±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71001096;	0.004970129	0.004970129
2.1.6	Resistor,R161.100K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71004498;	0.004970367	0.004970367
2.1.7	Resistor,R1352,24K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71125066;	0.004978807	0.004978807
2.1.8	Resistor,R1339,37.4?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.79857826;	0.005590106	0.005590106

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Name	Description	Quantity	Pi Factors All	Failure Rate	NoFailure Rate
2.1.9	Resistor,R202,4707±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71098787;	0.0049769573	0.0049769573
2.1.10	Resistor,R203,4707±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71098787;	0.0049769573	0.0049769573
2.1.11	Resistor,R206,4707±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.9131909	0.006392403	0.006392403
2.1.12	Resistor,R210,4707±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.9131909	0.006392403	0.006392403
2.1.13	Resistor,R16,100K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71000445;	0.0049700835	0.0049700835
2.1.14	Resistor,R22,100K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71000445;	0.0049700835	0.0049700835
2.1.15	Resistor,R151,3307±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.70999956;	0.0049700518	0.0049700518
2.1.16	Resistor,R333,3307±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.70999956;	0.0049700518	0.0049700518
2.1.17	Resistor,R150,33?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.70999956;	0.0049700518	0.0049700518

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Name	Description	Quantity	Pi Factors All	Failure Rate	NoFailure Rate
2.1.18	Resistor,R332,33?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738026; Stress=0.70999998;	0.0049700518	0.0049700518
2.1.19	Resistor,R*31,560?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.73751096;	0.0051626312	0.0051626312
2.1.20	Resistor,R*34,560?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.73751096;	0.0051626312	0.0051626312
2.1.21	Resistor,R*36,560?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.73751096;	0.0051626312	0.0051626312
2.1.22	Resistor,R372.10K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71816903;	0.0050027236	0.0050027236
2.1.23	Resistor,R159.10K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71044999;	0.0049732092	0.0049732092
2.1.24	Resistor,R*57,10K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71044999;	0.0049732092	0.0049732092
2.1.25	Resistor,R*55,10K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738026; Stress=0.71044999;	0.0049732092	0.0049732092
2.1.26	Resistor,R*52.10K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71734792;	0.0050214663	0.0050214663

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.27	Resistor,R271,10K?±1 %,0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71734702;	0.0050214953	0.0050214953
2.1.28	Resistor,R252,10K?± 1%,0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71406025;	0.0049964739	0.0049964739
2.1.29	Resistor,R269,10K?± 1%,0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71406025;	0.0049964739	0.0049964739
2.1.30	Resistor,R265,10K?± 1%,0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71061254;	0.0049743401	0.0049743401
2.1.31	Resistor,R226,10K?± 1%,0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71061254;	0.0049743401	0.0049743401
2.1.32	Resistor,R214,10K?± 1%,0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.72373939;	0.0050866229	0.0050866229
2.1.33	Resistor,R208,10K?± 1%,0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.73686029;	0.0051562744	0.0051562744
2.1.34	Resistor,R207,10K?± 1%,0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.72373939;	0.0050866229	0.0050866229
2.1.35	Resistor,R205,10K?± 1%,0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.73686029;	0.0051562744	0.0051562744

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.36	Resistor,R[illegible]37.10K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.74193746;	0.0051936167	0.0051936167
2.1.37	Resistor,R[illegible]96.10K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.74193746;	0.0051936167	0.0051936167
2.1.38	Resistor,R28.10K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71061254;	0.0049743401	0.0049743401
2.1.39	Resistor,R8.10K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.72373979;	0.0050066229	0.0050066229
2.1.40	Resistor,R32.4.7K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71266214;	0.0050306874	0.0050306874
2.1.41	Resistor,R100.4.7K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.72231412;	0.0050562518	0.0050562518
2.1.42	Resistor,R192.4.7K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71601087;	0.0050012129	0.0050012129
2.1.43	Resistor,R193.4.7K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71601087;	0.0050012129	0.0050012129
2.1.44	Resistor,R194.4.7K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71601087;	0.0050012129	0.0050012129

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.45	Resistor,R195,4.7K? ±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71601057;	0.005012129	0.005012129
2.1.46	Resistor,R25,0?±5% 0201	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231 Power=0.40738028; Stress=0.70999998;	0.0049700518	0.0049700518
2.1.47	Resistor,R31,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231 Power=0.40738028; Stress=0.70999998;	0.0049700518	0.0049700518
2.1.48	Resistor,R33,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.70999998;	0.0049700518	0.0049700518
2.1.49	Resistor,R136,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.70999998;	0.0049700518	0.0049700518
2.1.50	Resistor,R158,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231 Power=0.40738028; Stress=0.70999998;	0.0049700518	0.0049700518
2.1.51	Resistor,R163,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231 Power=0.40738028; Stress=0.70999998;	0.0049700518	0.0049700518
2.1.52	Resistor,R304,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231 Power=0.40738028; Stress=0.70999998;	0.0049700518	0.0049700518
2.1.53	Resistor,R305,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231 Power=0.40738028; Stress=0.70999998;	0.0049700518	0.0049700518

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.54	Resistor,R359,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4 Quality=1 Temperature=1.1610231, Power=0.40738025; Stress=0.70999996;	0.0049700518	0.0049700518
2.1.55	Resistor,R360,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1 Temperature=1.1610231 Power=0.40738026; Stress=0.70999998;	0.0049700518	0.0049700518
2.1.56	Resistor,R361,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4 Quality=1, Temperature=1.1610231, Power=0.40738026; Stress=0.70999996;	0.0049700518	0.0049700518
2.1.57	Resistor,R362,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1 Temperature=1.1610231, Power=0.40738026; Stress=0.70999996;	0.0049700518	0.0049700518
2.1.58	Resistor,R363,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4 Quality=1 Temperature=1.1610231; Power=0.40738026; Stress=0.70999998;	0.0049700518	0.0049700518
2.1.59	Resistor,R364,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1 Temperature=1.1610231, Power=0.40738028; Stress=0.70999998,	0.0049700518	0.0049700518
2.1.60	Resistor,R365,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1, Temperature=1.1610231, Power=0.40738026; Stress=0.70999998	0.0049700518	0.0049700518
2.1.61	Resistor,R366,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028, Stress=0.70999998,	0.0049700518	0.0049700518
2.1.62	Resistor,R367,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738026; Stress=0.70999998,	0.0049700518	0.0049700518

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Name	Description	Quantity	Pi Factors All	Failure Rate	Net failure Rate
2.1.63	Resistor,R368.0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.70999998;	0.00497005?5	0.0049700518
2.1.64	Resistor,R369.0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1, Temperature=1.1610231; Power=0.40738028; Stress=0.70999998;	0.00497005?5	0.0049700518
2.1.65	Resistor,R1322.0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1, Temperature=1.1610231; Power=0.40738028, Stress=0.70999998;	0.00497005?5	0.0049700518
2.1.66	Resistor,R1323.0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4, Quality=1, Temperature=1.1610231, Power=0.40738028; Stress=0.70999998.	0.00497005?5	0.0049700518
2.1.67	Resistor,R1325.0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1, Temperature=1.1610231; Power=0.40738028, Stress=0.70999998;	0.0049700518	0.0049700518
2.1.68	Resistor,R1327.0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1; Temperature=1.1610231, Power=0.40738028; Stress=0.70999998;	0.0049700518	0.0049700518
2.1.69	Resistor,R1344,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.70999998;	0.0049700518	0.0049700518
2.1.70	Resistor,R1355,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028, Stress=0.70999998;	0.0049700518	0.0049700518
2.1.71	Resistor,R1363,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.70999998;	0.0049700518	0.0049700518

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.72	Resistor,R1375.0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.70999998	0.0049700518	0.0049700518
2.1.73	Resistor,R1377.0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.70999998	0.0049700518	0.0049700518
2.1.74	Resistor,R6.1K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.75166363;	0.0052617006	0.0052617006
2.1.75	Resistor,R7.1K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.75166363;	0.0052617006	0.0052617006
2.1.76	Resistor,R13.1K?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.72528231;	0.0050770296	0.0050770296
2.1.77	Resistor,R49.1K?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.72528231	0.0050770296	0.0050770296
2.1.78	Resistor,R101.1K?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71250396;	0.0049682797	0.0049682797
2.1.79	Resistor,R225.1K?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.72528231;	0.0050770296	0.0050770296
2.1.80	Resistor,R249.1K?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.72528231;	0.0050770296	0.0050770296

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.81	Resistor,R950,1K?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71260393;	0.0049832797	0.0049832797
2.1.82	Resistor,R264,1K?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.72528231;	0.0050770296	0.0050770296
2.1.83	Resistor,R10.2K?±1 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.76851875;	0.0053795888	0.0053795888
2.1.84	Resistor,R950,1K?±1 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71451283;	0.0050016423	0.0050016423
2.1.85	Resistor,R951,1K?±1 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71451283;	0.0050016423	0.0050016423
2.1.86	Resistor,R158,100K? ±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71136212;	0.0049795872	0.0049795872
2.1.87	Resistor,R158,100K? ±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71136212;	0.0049795872	0.0049795872
2.1.88	Resistor,R158,100K? ±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71136212;	0.0049795872	0.0049795872
2.1.89	Resistor,R163,100K? ±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71017092;	0.0049713114	0.0049713114

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.90	Resistor,R164,100K? =1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71136212;	0.0049795872	0.0049795872
2.1.91	Resistor,R218,100K? =1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.72732750;	0.0050913463	0.0050913463
2.1.92	Resistor,R286,100K? =1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71136212;	0.0049795872	0.0049795872
2.1.93	Resistor,R161,100K? =1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71004498;	0.0049703671	0.0049703671
	Resistor,R200,4.7K? =5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71866214;	0.0050306874	0.0050306874
	Resistor,R201,4.7K? =5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71866214;	0.0050306874	0.0050306874
2.1.96	Resistor,R211,4.7K? =5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.73933041;	0.0051753367	0.0051753367
2.1.97	Resistor,R243,4.7K? =5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.73933041;	0.0051753367	0.0051753367
2.1.98	Resistor,R244,4.7K? =5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.73933041;	0.0051753367	0.0051753367

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.99	Resistor,R327,4.7K? ±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.73933041	0.005175367	0.005175367
2.1.100	Resistor,R343,4.7K? ±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.73933041;	0.005175367	0.005175367
2.1.101	Resistor,R355,4.7K? ±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.73414379;	0.0051390603	0.0051390603
2.1.102	Resistor,R338,4.7K ?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.73933041;	0.005175367	0.005175367
2.1.103	Resistor,R1343,4.7K ?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.73933041;	0.005175367	0.005175367
2.1.104	Resistor,R1345,4.7K ?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.71866214;	0.0050306874	0.0050306874
2.1.105	Resistor,R146,4.7K? ±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.73933041;	0.005175367	0.005175367
2.1.106	Resistor,R147,4.7K? ±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1.1610231; Power=0.40738028; Stress=0.73933041;	0.005175367	0.005175367
2.1.107	Capacitor,C4,22pF±5 % 50V NP0 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9210702; Capacitance=0.38090515; Stress=1.001331; Circuit Resistance=1;	0.0072562085	0.0072562085

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.108	Capacitor,C151,0.01 uF±10% 100V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1, Temperature=1.9216702; Capacitance=0.66069041, Stress=1.008; Circuit Resistance=1.	0.01266994	0.01266994
2.1.109	Capacitor,C6,0.1uF± 10% 50V,X5R,0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1, Temperature=1.9216702; Capacitance=0.81283051, Stress=1.000216, Circuit Resistance=1;	0.015467082	0.015467082
2.1.110	Capacitor,C7,0.1uF±1 -10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1, Temperature=1.9216702; Capacitance=0.81283051, Stress=1.064; Circuit Resistance=1.	0.0164534	0.0164534
	Capacitor,C19,0.1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1, Temperature=1.9216702; Capacitance=1; Stress=1.064; Circuit Resistance=1	0.020242106	0.020242106
	Capacitor,C240,2.2u F±10% 25V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702 Capacitance=1.0735395; Stress=1.0001518, Circuit Resistance=1.	0.020426687	0.020426687
2.1.113	Capacitor,C43,4.7uF ±10% 50V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10; Quality=1; Temperature=1.9216702 Capacitance=1.1494466; Stress=1.001331; Circuit Resistance=1;	0.021896793	0.021896793
2.1.114	Capacitor,C87,10uF± 10% 50V X5R 0805	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10, Quality=1, Temperature=1.9216702; Capacitance=1.2302688, Stress=1.064; Circuit Resistance=1	0.024900232	0.024900232

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Approved By : R Radhika

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.115	Capacitor,C124,22uF ±10% 50V X5R 1206	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10 Quality=1, Temperature=1.92[illegible]6702; Capacitance=1.3207421, Stress=[illegible]001331; Circuit Resistance=1;	0.025159949	0.025159949
2.1.116	Capacitor,C135,47uF ±20% 10V X5R 1206	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10, Quality=1; Temperature=1.9216702; Capacitance=1.4141283; Stress=1.1663749; Circuit Resistance=1;	0.031379141	0.031379141
2.1.117	Capacitor,C259,0.33 uF±10% 50V,X7R,0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.92503681, Stress=1.001331; Circuit Resistance=1;	0.01724082	0.01724082
2.1.118	Capacitor,C241,2.2u F±10% 25V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.0735395, Stress=1.000619; Circuit Resistance=1;	0.020434044	0.020434044
2.1.119	Capacitor,C1652,0.01uF±10% 100V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702 Capacitance=0.6606934; Stress=1.0005758; Circuit Resistance=1	0.012576659	0.012576659
2.1.120	Capacitor,C140,0.22 uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10 Quality=1, Temperature=1.9216702; Capacitance=0.87260568; Stress=1.001331 Circuit Resistance=1;	0.016623013	0.016623013
2.1.121	Capacitor,C220,0.22 uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10, Quality=1, Temperature=1.9216702; Capacitance=0.87260568; Stress=1.001331, Circuit Resistance=1,	0.016623013	0.016623013

Analyst :N Venkata Naga Aravind
Compiled By :V.Jambulingam.
Approved By :R.Radhika.

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.122	Capacitor,C229,0.22 uF ±10%,50V X5R 0402	1	Base Failure Rate (fpmh)=0.000959999997, Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.87260568; Stress=1.001331; Circuit Resistance=1;	0.016623013	0.016623013
2.1.123	Capacitor,C125,22uF ±20%,50V X5R 0805	1	Base Failure Rate (fpmh)=0.000959999997, Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.3207421; Stress=1.0000156; Circuit Resistance=1;	0.025126899	0.025126899
2.1.124	Capacitor,C127,22uF ±20%,50V X5R 0805	1	Base Failure Rate (fpmh)=0.000959999997, Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.3207421; Stress=1.0000156; Circuit Resistance=1;	0.025126899	0.025126899
2.1.125	Capacitor,C1642,22uF±20%,50V X5R 0805	1	Base Failure Rate (fpmh)=0.000959999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.3207421; Stress=1.000064; Circuit Resistance=1,	0.025128115	0.025128115
2.1.126	Capacitor,C126,22uF ±20%,50V X5R 0805	1	Base Failure Rate (fpmh)=0.000959999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.3207421, Stress=1.0046296; Circuit Resistance=1,	0.025242832	0.025242832
2.1.127	Capacitor,C86,22uF± 20%,50V X5R 0805	1	Base Failure Rate (fpmh)=0.000959999997; Environment=10, Quality=1 Temperature=1.9216702, Capacitance=1.3207421 Stress=1.000064; Circuit Resistance=1;	0.025128115	0.025128115
2.1.128	Capacitor,C270,22uF ±20%,50V X5R 0805	1	Base Failure Rate (fpmh)=0.000959999997, Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.3207421, Stress=1.001331 Circuit Resistance=1;	0.025159949	0.025159949

Analyst N.Venkata Naga Aravind
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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.129	Capacitor C87,10uF± 10% 25V X5R 0805	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.2302688; Stress=1.000512; Circuit Resistance=1;	0.023417277	0.023417277
2.1.130	Capacitor C110,10uF ±10% 25V X5R 0805	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.2302688; Stress=1.0048296; Circuit Resistance=1.	0.023513651	0.023513651
2.1.131	Capacitor,C49,4.7uF ±10% 50V X5R 0805	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.1494466; Stress=1.000064; Circuit Resistance=1;	0.021669095	0.021669095
2.1.132	Capacitor C56,4.7uF ±10% 50V	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.1494466; Stress=1.000216; Circuit Resistance=1;	0.021872411	0.021872411
2.1.133	Capacitor,C61,4.7uF ±10% 50V	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.1494466; Stress=1.001331; Circuit Resistance=1;	0.021896793	0.021896793
2.1.134	Capacitor,C197,4.7uF±10% 50V	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702 Capacitance=1.1494466; Stress=1.001331; Circuit Resistance=1.	0.021896793	0.021896793
2.1.135	Capacitor,C199,4.7uF±10% 50V	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.1494466; Stress=1.001331; Circuit Resistance=1.	0.021896793	0.021896793

Analyst : N.Venkata Naga Aravind
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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.136	Capacitor,C301,4.7uF±10% 50V	1	Base Failure Rate (fpmh)=0.000986999997 Environment=10; Quality=1, Temperature=1.92[illegible]6702, Capacitance=[illegible].1494466, Stress=1.001331; Circuit Resistance=1.	0.021696793	0.021696793
2.1.137	Capacitor,C42,10uF±10% 25V X5R 0805	1	Base Failure Rate (fpmh)=0.000986999997 Environment=10, Quality=1; Temperature=1.9216702 Capacitance=1.2302688; Stress=1.000512, Circuit Resistance=1;	0.02341[illegible]277	0.02341[illegible]277
2.1.138	Capacitor,C209,10uF±10% 25V X5R 0805	1	Base Failure Rate (fpmh)=0.000986999997; Environment=10; Quality=1; Temperature=1.9216702 Capacitance=1.2302688; Stress=1.5[illegible]19998; Circuit Resistance=1;	0.035388601	0.035388601
[illegible]	Capacitor,C213,10uF±10% 25V X5R 0805	1	Base Failure Rate (fpmh)=0.000986999997 Environment=10; Quality=1; Temperature=1.9216702 Capacitance=1.2302688; Stress=1.5[illegible]19998; Circuit Resistance=1;	0.035388601	0.035388601
2.1.140	Capacitor,C218,10uF±10% 25V X5R 0805	1	Base Failure Rate (fpmh)=0.000986999997, Environment=10; Quality=1; Temperature=1.9216702, Capacitance=1.2302688; Stress=1.5[illegible]19998, Circuit Resistance=1;	0.035388601	0.035388601
2.1.141	Capacitor,C265,10uF±10% 25V X5R 0805	1	Base Failure Rate (fpmh)=0.000986999997, Environment=10; Quality=1; Temperature=1.92[illegible]6702; Capacitance=1.2302688; Stress=1.010648; Circuit Resistance=1;	0.023664513	0.023664513
2.1.142	Capacitor,C57,1uF±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.000986999997; Environment=10, Quality=1, Temperature=1.9216702; Capacitance=1 Stress=1.000210; Circuit Resistance=1;	0.013028645	0.013028645

Analyst : N.Venkata Naga Aravind:
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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.143	Capacitor,C62,1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1; Stress=1.001331; Circuit Resistance=1;	0.019049857	0.019049857
2.1.144	Capacitor,C65,1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1; Stress=1.000019; Circuit Resistance=1;	0.019024896	0.019024896
2.1.145	Capacitor,C69,1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1; Stress=1.000216; Circuit Resistance=1;	0.019020845	0.019020845
2.1.146	Capacitor,C73,1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1; Stress=1.001331; Circuit Resistance=1;	0.019049857	0.019049857
2.1.147	Capacitor,C142,1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1; Stress=1.001331; Circuit Resistance=1;	0.019049857	0.019049857
2.1.148	Capacitor,C145,1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1; Stress=1.001331; Circuit Resistance=1;	0.019049857	0.019049857
2.1.149	Capacitor,C155,1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1; Stress=1.0046296; Circuit Resistance=1;	0.019112611	0.019112611
2.1.150	Capacitor,C249,1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=1.3207421; Stress=1.001331; Circuit Resistance=1;	0.025159949	0.025159949

Analyst :N.Venkata Naga Aravind
Corroded By :V.Jambulingam..
Approved By :R.Radhika.

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.151	Capacitor,C134,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.51283051; Stress=1.001331; Circuit Resistance=1;	0.015484304	0.015484304
2.1.152	Capacitor,C141,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.51283051; Stress=1.001331; Circuit Resistance=1;	0.015484304	0.015484304
2.1.153	Capacitor,C143,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.51283051; Stress=1.001331; Circuit Resistance=1;	0.015484304	0.015484304
2.1.154	Capacitor,C144,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.51283051; Stress=1.001331; Circuit Resistance=1;	0.015484304	0.015484304
2.1.155	Capacitor,C157,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.51283051; Stress=1.001331; Circuit Resistance=1;	0.015484304	0.015484304
2.1.156	Capacitor,C160,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.51283051; Stress=1.0046296; Circuit Resistance=1;	0.015535313	0.015535313
2.1.157	Capacitor,C162,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.51283051; Stress=1.004; Circuit Resistance=1;	0.0164534	0.0164534

Analyst : N.Venkata Naga Aravind
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Name	Description	Quantity	Pi Factors All	Failure Rate	NoFailure Rate
2.1.158	Capacitor,C181,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.015484304	0.015484304
2.1.159	Capacitor,C183,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.015484304	0.015484304
2.1.160	Capacitor,C185,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.015484304	0.015484304
2.1.161	Capacitor,C187,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.015484304	0.015484304
2.1.162	Capacitor,C189,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.015484304	0.015484304
2.1.163	Capacitor,C196,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.015484304	0.015484304
2.1.164	Capacitor,C198,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.015484304	0.015484304

Analyst: N.Venkata Naga Aravind
Compiled By: V.Jambulingam
Approved By: R Radhika

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.165	Capacitor,C206,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.000969999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0046256; Circuit Resistance=1	0.0155353 13	0.0155353 13
2.1.166	Capacitor,C210,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.000969999997 Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.064; Circuit Resistance=1;	0.0164534	0.0164534
2.1.167	Capacitor,C211,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.000969999997 Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.064; Circuit Resistance=1;	0.0164534	0.0164534
2.1.168	Capacitor,C212,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.000969999997 Environment=10; Quality=1; Temperature=1.9216702 Capacitance=0.81283051; Stress=1.064; Circuit Resistance=1;	0.0164534	0.0164534
2.1.169	Capacitor,C215,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.000969999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.0154484304	0.0154484304
2.1.170	Capacitor,C219,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.000969999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.064; Circuit Resistance=1;	0.0164534	0.0164534
2.1.171	Capacitor,C223 0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.000969999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.001331 Circuit Resistance=1;	0.0154484304	0.0154484304

Analyst : N.Venkata Naga Aravind
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Approved By : H.Radhika

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.172	Capacitor,C228,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.015484304	0.015484304
2.1.173	Capacitor,C232,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10, Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.001331, Circuit Resistance=1;	0.015484304	0.015484304
2.1.174	Capacitor,C235,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10; Quality=1; Temperature=1.9216702, Capacitance=0.81283051, Stress=1.000364; Circuit Resistance=1;	0.015484712	0.015484712
2.1.175	Capacitor,C237,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1.	0.015484304	0.015484304
2.1.176	Capacitor,C239,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0005788, Circuit Resistance=1,	0.015472672	0.015472672
2.1.177	Capacitor,C260,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702, Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1.	0.015484304	0.015484304
2.1.178	Capacitor,C263,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051, Stress=1.001331; Circuit Resistance=1;	0.015484304	0.015484304

Analyst : N.Venkata Naga Aravind.
Compiled By : V.Jambulingam.
Approved By : R.Radhika.

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.179	Capacitor,C287,0.1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.000998999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.015484304	0.015484304
2.1.180	Capacitor,C288,0.1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.000998999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.000216; Circuit Resistance=1;	0.015467062	0.015467062
2.1.181	Capacitor,C334,0.1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.000998999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0000128; Circuit Resistance=1;	0.015463918	0.015463918
2.1.182	Capacitor,C647,0.1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.000998999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.015484304	0.015484304
2.1.183	Capacitor,C631,0.1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.000998999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1	0.015484304	0.015484304
2.1.184	Capacitor,C85,0.1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.000998999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.015464712	0.015464712
2.1.185	Capacitor,C271,0.1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.000998999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.015484304	0.015484304

Analyst : N.Venkata Naga Aravind;
Compiled By :V.Jambulingam
Approved By : R.Radhika

Name	Description	Quantity	PI Factors All	Failure Rate	NxFailure Rate
2.1.186	Capacitor,C300,0.1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10; Quality=1; Temperature=1.9216702, Capacitance=0.81283051; Stress=1.001931; Circuit Resistance=1	0.015484304	0.015484304
2.1.187	Capacitor C88,0.1uF ±10% 50V X5R 020'	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.000004; Circuit Resistance=1;	0.015464712	0.015464712
2.1.188	Capacitor,C89,0.1uF ±10% 50V X5R0201	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.000004, Circuit Resistance=1;	0.015464712	0.015464712
2.1.189	Capacitor,C111,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0005785; Circuit Resistance=1	0.015472672	0.015472672
2.1.190	Capacitor,C112,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0005788, Circuit Resistance=1;	0.015472672	0.015472672
2.1.191	Capacitor,C545,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.000054, Circuit Resistance=1;	0.015464712	0.015464712
2.1.192	Capacitor,C20,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0000156, Circuit Resistance=1;	0.015463963	0.015463963

Analyst: N.Venkata Naga Aravind.
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Approved By : R.Radhika.

Name	Description	Quantity	FI Factors All	Failure Rate	NxFailure Rate
2.1.193	Capacitor,C21,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702, Capacitance=0.81283051, Stress=1.0000156; Circuit Resistance=1	0.015463963	0.015463963
2.1.194	Capacitor,C22,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1, Temperature=1.9216702; Capacitance=0.81283051, Stress=1.0000156; Circuit Resistance=1.	0.015463963	0.015463963
2.1.195	Capacitor,C23,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1, Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1.	0.015463963	0.015463963
2.1.196	Capacitor,C24,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1 Temperature=1.9216702, Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1.	0.015463963	0.015463963
2.1.197	Capacitor,C25,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1 Temperature=1.9216702; Capacitance=0.81283051 Stress=1.0001331, Circuit Resistance=1,	0.015484304	0.015484304
2.1.198	Capacitor,C26,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1, Temperature=1.9216702, Capacitance=0.81283051; Stress=1.0000156, Circuit Resistance=1,	0.015463963	0.015463963
2.1.199	Capacitor,C27,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10; Quality=1; Temperature=1.9216702, Capacitance=0.81283051, Stress=1.0000156, Circuit Resistance=1.	0.015463963	0.015463963

Analyst: N.Venkata Naga Aravind
Compiled By :V.Jambulingam.
Approved By : R.Radhika.

Name	Description	Quantity	PI Factors All	Failure Rate	NxFailure Rate
2.1.200	Capacitor,C29,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1;	0.015463963	0.015463963
2.1.201	Capacitor,C30,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1;	0.015463963	0.015463963
2.1.202	Capacitor,C31,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1;	0.015463963	0.015463963
2.1.203	Capacitor,C32,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1;	0.015463963	0.015463963
2.1.204	Capacitor,C33,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1;	0.015463963	0.015463963
2.1.205	Capacitor,C34,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1;	0.015463963	0.015463963
2.1.206	Capacitor,C35,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1;	0.015463963	0.015463963

Analyst : N.Venkata Naga Aravind
Compiled By : V.Jambulingam
Aporoved By : H Radhika

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.207	Capacitor,C36,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.000986999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1;	0.015463963	0.015463963
2.1.208	Capacitor,C37,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.000986999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1;	0.015463963	0.015463963
2.1.209	Capacitor,C38,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.000986999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1;	0.015463963	0.015463963
2.1.210	Capacitor,C39,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.000986999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1;	0.015463963	0.015463963
2.1.211	Capacitor,C40,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.000986999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1;	0.015463963	0.015463963
2.1.212	Capacitor,C41,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.000986999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1;	0.015463963	0.015463963
2.1.213	Capacitor,C44,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.000986999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.0000064; Circuit Resistance=1;	0.015464712	0.015464712

Analyst : N Venkata Naga Aravind
Compiled By : V Jambulingam
Approved By : R.Radhika.

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.214	Capacitor,C45,0.1uF ±10%,50V,X5R,C201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.000064, Circuit Resistance=1;	0.015464712	0.015464712
2.1.215	Capacitor,C46,0.1uF ±10%,50V,X5R,C201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702, Capacitance=0.81283051; Stress=1.001331, Circuit Resistance=1;	0.015484304	0.015484304
2.1.216	Capacitor,C47,0.1uF ±10%,50V,X5R,C201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.015464712	0.015464712
2.1.217	Capacitor,C48,0.1uF ±10%,50V,X5R,C201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702, Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.015464712	0.015464712
2.1.218	Capacitor,C50,0.1uF ±10%,50V,X5R,C201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.015464712	0.015464712
2.1.219	Capacitor,C51,0.1uF ±10%,50V,X5R,C201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702; Capacitance=0.81283051; Stress=1.000064, Circuit Resistance=1;	0.015464712	0.015464712
2.1.220	Capacitor,C52,0.1uF ±10%,50V,X5R,C201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1, Temperature=1.9216702, Capacitance=0.81283051, Stress=1.000064, Circuit Resistance=1;	0.015464712	0.015464712

Analyst : N.Venkata Naga Aravind
Compiled By : V.Jambulingam
Approved By : R.Radhika

Name	Description	Quantity	Pi Factors All	Failure Rate	Nxfailure Rate
2.1.221	Capacitor,C52,0.1uF ±10%,50V,X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702, Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.015464712	0.015464712
2.1.222	Capacitor,C54 0.1uF ±10%,50V,X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702, Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1.	0.015464712	0.015464712
2.1.223	Capacitor,C55,0.1uF ±10%,50V X5R,0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.9216702, Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1	0.015464712	0.015464712
	Diode, Low Frequency,D7,TVS,Bi,15V,1500W,SMC	1	Base Failure Rate (fpmh)=0.0013; Environment=6; Quality=5.5, Temperature=1.9200621; Stress=1; Contact Form=2.	0.16474132	0.16474132
	Diode, High Frequency,D6,3.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER	1	Base Failure Rate (fpmh)=0.02700000; Environment=2; Quality=0; Temperature=1.5576937, Application=1; Power=1.	0	0
2.1.226	Diode, Low Frequency,D111,Thyristors Solid Protection Device Bidirectional transient voltage suppressors	1	Base Failure Rate (fpmh)=0.0013, Environment=6; Quality=5.5, Temperature=1.9200621; Stress=1; Contact Form=2.	0.16474132	0.16474132

Analyst : N Venkata Naga Aravind:
Compiled By : V.Jambulingam
Approved By : R.Radhika

Name	Description	Quantity	Pi Factors All	Failure Rate	NoFailure Rate
2.1.227	Diode, Low Frequency D112 Thyristors Solid Protection Device Bidirectional transient voltage suppressors	1	Base Failure Rate (fpmh)=0.0013, Environment=6, Quality=5.5; Temperature=1.3200621; Stress=1; Contact Form=2;	0.16474132	0.16474132
2.1.228	Diode, Low Frequency.D10.High Property Device for Surge & ESD	1	Base Failure Rate (fpmh)=0.0013, Environment=6; Quality=5.5; Temperature=1.3200621, Stress=1; Contact Form=1.	0.082370661	0.082370661
2.1.229	Diode, Low Frequency.D11.High Property Device for Surge & ESD	1	Base Failure Rate (fpmh)=0.0013, Environment=6; Quality=5.5; Temperature=1.3200621; Stress=1; Contact Form=1;	0.082370661	0.082370661
2.1.230	Diode, High Frequency.D9.Schottky Barrier Diode	1	Base Failure Rate (fpmh)=0.027000001; Environment=2; Quality=2.5; Temperature=1.5576937; Application=1; Power=1;	0.21028864	0.21028864
2.1.231	Quartz Crystal,X1,24MHz,SMD 3.2*2.5mm,20pF,±20 PPM	1	Base Failure Rate (fpmh)=0.027001753; Environment=3; Quality=1;	0.05100526	0.05100526
2.1.232	Quartz Crystal,X2,32.768KHz,12.5pF,±20PPM,3.2*1.5,SMD	1	Base Failure Rate (fpmh)=0.0059223676; Environment=3; Quality=1;	0.017767163	0.017767163
2.1.233	Connector, General,J2,Conn, B2C,TB, Male, 1x3, 1.25mm, SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2, Mating/Unmating=2, Temperature=1.3011527;	0.2394121	0.2394121

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.234	Connector General J16 Conn, B2C, TB, Male 1x5, 1.25mm, SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.2987189;	0.23896429	0.23896429
2.1.235	Connector, General J18 Conn, B2C,TB, Male 1x2 1.25mm, SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.3011527;	0.2394121	0.2394121
2.1.236	Connector, General,J29 Conn B2C,TB, Male, 1x2, 1.25mm, SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.3011527;	0.2394121	0.2394121
2.1.237	Connector, General,J1,Conn, B2C,TB, Male, 1x4, 1.25mm, SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.3011527;	0.2394121	0.2394121
2.1.238	Connector, General,J12,Conn, B2C,TB, Male, 1x4,1.25mm, SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.3011527;	0.2394121	0.2394121
2.1.239	Connector, General,J6,Conn, B2C, Male, 1x2, 1.25mm, ST, SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.2987713;	0.23897392	0.23897392
2.1.240	Connector, General,J10,Conn, B2C, Male, 1x2 1.25mm, ST, SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.3011527	0.2394121	0.2394121
2.1.241	Connector, General J3,Conn B2C Male, 1x10, 1.25mm, ST SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.3011527;	0.2394121	0.2394121

Analyst : N.Venkata Naga Aravind
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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.242	Connector, General,J7,Conn, B2C, Male, 1x12 1.25mm, ST, SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.2900539;	0.23902584	0.23902584
2.1.243	Connector, General,J5,0.5mm FFC/FPC DUAL CONTACT SIDE CONNECTOR	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.3011527;	0.239412	0.23941 21
2.1.244	Micro Linear U18,DIFFERENTIAL BUS TRANSCEIVERS	1	Environment=2; Quality=1; Learning=1; Temperature=0.4913581; Die Complexity Rate=0.0099999998; Package Rate=0.0026154235;	0.010204428	0.010204428
2.1.245	Micro Linear,U61, 1A high-efficiency synchronous step-down converter	1	Environment=2; Quality=1; Learning=1; Temperature=0.4913581; Die Complexity Rate=0.0099999998; Package Rate=0.001592376;	0.0080983331	0.0080983331
2.1.246	Micro, Linear U60,300-mA, Low-Dropout Regulator	1	Environment=2; Quality=1; Learning=1; Temperature=0.4913581; Die Complexity Rate=0.0099999998; Package Rate=0.001592376	0.0080983331	0.0080983331
2.1.247	Micro Linear,U21,2A high-efficiency synchronous step-down converter	1	Environment=2; Quality=1; Learning=1; Temperature=0.4913581; Die Complexity Rate=0.0099999998; Package Rate=0.001592376;	0.0080983331	0.0080983331
2.1.248	Micro, Linear U50,2A high-efficiency synchronous step-down converter	1	Environment=2; Quality=1; Learning=1; Temperature=0.4913581; Die Complexity Rate=0.0099999998; Package Rate=0.001592376;	0.0080983331	0.0080983331

Analyst : N.Venkata Naga Aravind;
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Approved By : R.Radhika

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.249	Micro, Linear,U51,2A high-efficiency synchronous step-down converter	1	Environment=2; Quality=1; Learning=1; Temperature=0.4913581; Die Complexity Rate=0.0099999998, Package Rate=0.0015823 76;	0.0080983331	0.0080983331
2.1.250	Micro Linear,U20,2A synchronous step-down converter	1	Environment=2; Quality=1; Learning=1 Temperature=0.4913581; Die Complexity Rate=0.0099999998; Package Rate=0.0019389258;	0.0087914346	0.0087914346
2.1.251	Micro, Linear,U9, 2-Bit, 2-Supply, Bus Transceiver with Configurable Level-ShiftingTranslation and 3-State Outputs and	1	Environment=2; Quality=1; Learning=1 Temperature=0.4913581 Die Complexity Rate=0.0099999996; Package Rate=0.0026454236;	0.0102204428	0.0102204428
	Micro, Linear U34,microprocessor (?P) supervisorycircuits	1	Environment=2 Quality=1 Learning=1 Temperature=0.4913551; Die Complexity Rate=0.0099999998 Package Rate=0.0012513617;	0.0074163042	0.0074163042
2.1.253	Micro, Linear U19,2A synchronous step-down converter	1	Environment=2; Quality=1; Learning=1. Temperature=0.4913581 Die Complexity Rate=0.0099999996. Package Rate=0.0019389258;	0.0087914346	0.0087914346
2.1.254	Micro, Digital,IC SERIAL NAND, 2Gb WSON8	1	Environment=2; Quality=1 Learning=1; Temperature=0.23666295 Die Complexity Rate=0.0099999998 Package Rate=0.0026454236.	0.0076474766	0.0076474700
2.1.255	Micro Not EEPROM,U15,IC MEM,4Gb,1200MHz, DDR4,BGA96	1	Environment=2; Quality=1. Learning=1. Temperature=0.43472403; Die Complexity Rate=0.0099999996; Package Rate=0.038291249;	0.090929741	0.090929741

Analys: M.Venkata Naga Aravind
Compiled By: V.Jambulingam
Approved By : R Radhika

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.256	External,Digital,U1,IC , CV28S68M, Ambarella vision processor,VFBGA-288 0.65_11*12mm	1	Base Failure Rate (fpmh)=0.01074; Temperature=1;	0.01074	0.01074
1.1.257	External,U25,300-mA , Low-Dropout Regulator	1	Base Failure Rate (fpmh)=0.053277997; Temperature=1.	0.053277997	0.053277997
1.1.258	Micro, Linear,U54,10/100Mbps single-port Physical Layer Transceiver	1	Environment=2; Quality=1; Learning=1; Temperature=0.4913581; Die Complexity Rate=0.0099999998; Package Rate=0.010235021;	0.025383623	0.025383623

Analyst : N.Venkata Naga Aravind;
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Annexure- IV

PARAMETERS REPORT

:(Temperature 40℃)

EFKON INDIA PVT LTD

MIL-HDBK-217F PARAMETERS REPORT

Name: SC-IND22XP-R(2)(S)
Failure Rate: 9.7008247
MTBF: 103084.02

Name	Description	Quantity	Physical Parameters All	Application Parameters All
1	Block,ImageSensor IMX335	1	QUALMI=Commercial or Unknown,QUALRS=Jan,QUALRS=Nonestablished Reliab,QUALCR=Nonestablished Reliab,QUALCO=Mil Spec,QUALRY=Class M,QUALSS=Mil Spec,QUALSA=High Quality Pcn,QUALOT=Mil Spec,	QUAN=1,REPM=Non-Repairable,ENVI=Ground,fixed,CONN=Reflow Solder,MTTR=0,NOST=0,TEMP=30,VSTRESS=0.80000001,CSTRESS=0.09999999,PSTRESS=0.75,ADJF=1,SM=1,SM=1.
	IA, Surface Mount Technology	1	LEAD=Leadless,BTCE=7,PTCE=7,SOJD=500,SOJH=5,THJC=45,	QUAN=1,ENVI=Ground,fixed,CYRA=1,SOLC=5760,POWR=0.1,ADJF=1.
	Resistor,R1,4.99K?±1%,0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0.02,APPPOWER=0.00125,CONN=Reflow Solder,ADJF=1,SM=1,SM=1.
1.1.2	Resistor,R2,4.99K?±1%,0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0.02,APPPOWER=0.00125,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.3	Resistor,R7,1.10K?±5%,0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0.000256,APPPOWER=1.6e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.4	Resistor,R73,10K?±5%,0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0.000256,APPPOWER=1.6e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1.

Analyst : N.Venkata Naga Aravind
Compiled By : V.Jambulingam
Approved By : R.Radhika

Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.5	Resistor,R75,10K?±5 % 0402	1	STY_RS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.000256,APPPOW ER=1.6e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.6	Resistor,R188,10K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.017424,APPPOW ER=0.001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.7	Resistor,R191,10K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.017424,APPPOW ER=0.001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.8	Resistor,R197,10K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.017424,APPPOW ER=0.001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1
1.1.9	Resistor,R202,10K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.017424,APPPOW ER=0.001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.10	Resistor,R201,10K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.017424,APPPOW ER=0.001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.11	Resistor,R194,7K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.011021,APPPOW ER=0.00068900001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.12	Resistor,R303,2K?±1 % 0402	1	STYLRS=Fixed,Film,high Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.086400002,APPP OWER=0.005400001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.13	Resistor,R305,2K?±1 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.086400002,APPP OWER=0.005400001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1.

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.14	Resistor,RT21.1K?±1 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.01296,APPPOWE R=0.00081,CONN=Reflow Solder,ADJF=1,SM=1,SM=1.
1.1.15	Resistor,RT23.1K?±1 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.01296,APPPOWE R=0.00081,CONN=Reflow Solder,ADJF=1,SM=1,SM=1.
1.1.16	Resistor,RT25.1K?±1 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.05184,APPPOWE R=0.00324,CONN=Reflow Solder,ADJF=1,SM=1,SM=1.
1.1.17	Resistor,RT26.1K?±1 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.05184,APPPOWE R=0.00324,CONN=Reflow Solder,ADJF=1,SM=1,SM=1.
	Resistor,R1.0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1.
	Resistor,R413.0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1.
1.1.20	Resistor,R420.0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1.
1.1.21	Resistor,R421.0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1.
1.1.22	Resistor,R422.0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1.

Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.23	Resistor,R423,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENV=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0.0 ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.24	Resistor,R424,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENV=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.0093800001,APP POWER=0,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.25	Resistor,R425,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENV=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0.0 ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.26	Resistor,R194,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENV=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0.0 ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.27	Resistor,R72,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENV=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0.0 ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.28	Resistor,R717,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENV=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0.0 ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.29	Resistor,R715,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENV=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0.0 ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.30	Resistor,FB1,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENV=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0.0 ONN=Reflow Solder,ADJF=1,SM=1,SM=1
1.1.31	Resistor,FB2,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENV=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0.0 ONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.32	Resistor,FB3,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.33	Resistor,FB4,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.34	Resistor,BL1,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.35	Resistor,R2,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.36	Resistor,R3,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.0006800001,APP POWER=0,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.37	Resistor,R210,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.38	Resistor,R211,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1
1.1.39	Resistor,R212,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.40	Resistor,R213,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.41	Resistor,R214,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 .	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1
1.1.42	Resistor,R215,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 .	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.43	Resistor,R216,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 .	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1
1.1.44	Resistor,R219,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 .	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1
1.1.45	Capacitor,C65,22pF±5% 50V NPO 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=2.2e-5,RATVOLT=50, PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.46	Capacitor,C66,22pF±5% 50V NPO 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=2.2e-5,RATVOLT=50, PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.47	Capacitor,C72,1000pF±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.001,RATVOLT=50, PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=1.8,VSTRESS=0.03599 9998,CRES=0.60000002,ADJF=1,SM=1,S M=1,
1.1.48	Capacitor,C25,0.22uF±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.22,RATVOLT=50,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.49	Capacitor,C1,1uF±10 % 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=1,RATVOLT=50,PINS =2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
1 1.50	Capacitor,C28,1uF±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER,QUALCR=ClassM,CAPC=1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=ReflowSolder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1 1.51	Capacitor,C350,2.2uF±10% 50V X5R 0603	1	STYLCR=Ceramic,General,ER,QUALCR=ClassM,CAPC=2.2,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=ReflowSolder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1 1.52	Capacitor,C352,2.2uF±10% 50V X5R 0603	1	STYLCR=Ceramic,General,ER,QUALCR=ClassM,CAPC=2.2,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=ReflowSolder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1 1.53	Capacitor,C357,2.2uF±10% 50V X5R 0603	1	STYLCR=Ceramic,General,ER,QUALCR=ClassM,CAPC=2.2,RATVOLT=50,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=ReflowSolder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1 1.54	Capacitor,C2,10uF±10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER,QUALCR=ClassM,CAPC=10,RATVOLT=35,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=ReflowSolder,APPVOLT=3.3,VSTRESS=0.09423571,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1 1.55	Capacitor,C4,10uF±10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER,QUALCR=ClassM,CAPC=10,RATVOLT=35,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=ReflowSolder,APPVOLT=5,VSTRESS=0.14285715,CRES=0.60000002,ADJF=1,SM=1,SM=1
1.1 56	Capacitor,C5,10uF±10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER,QUALCR=ClassM,CAPC=10,RATVOLT=35,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=ReflowSolder,APPVOLT=5,VSTRESS=0.14285715,CRES=0.60000002,ADJF=1,SM=1,SM=1
1.1 57	Capacitor,C10,10uF±10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER,QUALCR=ClassM,CAPC=10,RATVOLT=35,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=ReflowSolder,APPVOLT=1.8,VSTRESS=0.05142857,CRES=0.60000002,ADJF=1,SM=1,SM=1

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.58	Capacitor C13,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2.	QUAN=1,ENVI=Ground(fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=5,VSTRESS=0.1428571 5,CRES=0.60000002,ADJF=1,SM=1,SM=1 .
1.1.59	Capacitor C15,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder APPVOLT=1.2,VSTRESS=0.03428 5717,CRES=0.60000002,ADJF=1,SM=1,S M=1.
1.1.60	Capacitor,C22,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.03428 5717,CRES=0.60000002,ADJF=1,SM=1,S M=1.
1.1.61	Capacitor,C29,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.03428 5717,CRES=0.60000002,ADJF=1,SM=1,S M=1,
1.1.62	Capacitor,C30,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3,VSTRESS=0.0857142 98,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.63	Capacitor,C44,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0 .082857147,CRES=0.60000002,ADJF=1,S M=1,SM=1,
1.1.64	Capacitor,C48,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0 .082857147,CRES=0.60000002,ADJF=1,S M=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.65	Capacitor,C74,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.09429 5712,CRES=0.60000002,ADJF=1,SM=1,S M=1
1.1.66	Capacitor,C76,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.03426 5717,CRES=0.60000002,ADJF=1,SM=1,S M=1,
1.1.67	Capacitor,C78,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.09428 5712,CRES=0.60000002,ADJF=1,SM=1,S M=1
1.1.68	Capacitor,C85,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.09428 5712,CRES=0.60000002,ADJF=1,SM=1,S M=1,
1.1.69	Capacitor,C92,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=5,VSTRESS=0.1428571 5,CRES=0.60000002,ADJF=1,SM=1,SM=1
1.1.70	Capacitor,C98,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0 .082857147,CRES=0.60000002,ADJF=1.5 M=1,SM=1.
1.1.71	Capacitor,C161,10uF ±10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=1.8,VSTRESS=0.05142 8571,CRES=0.60000002,ADJF=1.5,SM=1.5 M=1,

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Compiled By : V Jambulingam
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Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.72	Capacitor,C358,10uF ±10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=5,VSTRESS=0.1426571 5,CRES=0.60000002,ADJF=1,SM=1,SM=1 ,
1.1.73	Capacitor,C208,10uF ±10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=5,VSTRESS=0.1426571 5,CRES=0.60000002,ADJF=1,SM=1,SM=1 ,
1.1.74	Capacitor,C14,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,C RES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.75	Capacitor,C15,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,C RES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.76	Capacitor,C16,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,C RES=0.60000002,ADJF=1,SM=1,SM=1
1.1.77	Capacitor,C19,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0 .058000002,CRES=0.60000002,ADJF=1,S M=1,SM=1,
1.1.78	Capacitor,C20,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,C RES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.79	Capacitor,C21,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0 .058000002,CRES=0.60000002,ADJF=1,S M=1,SM=1,

Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.80	Capacitor,C23,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.81	Capacitor,C24,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1
1.1.82	Capacitor,C26,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed TEMP=40,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.83	Capacitor,C27,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.84	Capacitor,C31,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0.058000002,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.85	Capacitor,C32,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0.058000002,CRES=0.60000002,ADJF=1,SM=1,SM=1
1.1.86	CapacitorC33,0.1uF± 10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0.058000002,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.87	CapacitorC34,0.1uF± 10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0.058000002,CRES=0.60000002,ADJF=1,SM=1,SM=1,

Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.88	Capacitor,C35,0.1uF± 10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCF=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0.058000002,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.89	Capacitor,C36,0.1uF± 10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCF=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.8,VSTRESS=0.035999998,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.90	Capacitor,C37,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCF=Class M,CAPC=0.1,RATVOLT=50,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.8,VSTRESS=0.035999998,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.91	Capacitor,C38,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCF=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.92	Capacitor,C39,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCF=Class M,CAPC=0.1,RATVOLT=50,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.93	Capacitor,C40,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCF=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0.058000002,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.94	Capacitor,C41,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCF=Class M,CAPC=0.1,RATVOLT=50,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.95	Capacitor,C42,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCF=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Applicetion Parameters All
1.1.96	Capacitor,C43,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1
1.1.97	Capacitor,C45,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0.058000002,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.98	Capacitor,C46,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.99	Capacitor,C49,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0.058000002,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.100	Capacitor,C75,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.101	Diode, Low Frequency D1,Schottky Barrier Diode	1	CONSLD=Metallurgically Bonded,QUALDS=Lower,N,INS=1,PINS=2,THCA=50,THJC=70,RATP=0.363999997,RATVOLT=30,RATVOLT=150,RATVOLT=0,	QUAN=1,APPLLD=Power Rectifier/Schottky,ENVI=Ground,fixed,JTMP=45,MODE=User Defined Junct Temp,TEMP=40,CONN=Reflow Solder,CTMF=35,POWR=0.1,VSTRESS=2.3333332e-5,APPVOLT=0.00009999996, ADJF=1,SM=1,SM=1
1.1.102	Quartz Crystal,X2.24MHz,SMD 3.2*2.5mm,20pF,±20 PPM	1	QUALOT=Mil Spec,FREQOC=24,RATVOLT=0,PINS=4	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,APPVOLT=3.3,ADJF=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
1 1 103	Connector, General,J2 Conn, B2C,TB, Male 1x2, 1.25mm, SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=2,RATCURR=0.5,RTMP=105,	QUAN=1 ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=40,TMPR=0.11900133 AMPS=0,ADJF=1,SM=1,SM=1,
1.1.104	Connector General,J6,Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge NCON=2,RATCURR=0 5,RTMP=105.	QUAN=1.ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=40,TMPR=0.00805 97563,AMPS=0 1,ADJF=1,SM=1 SM=1,
1.1 105	Connector General ,J1,Conn, B2C TB, Male 1x4, 1.25mm, SMD	1	TYPEGC=Rectangular QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gaugn,NCON=4,RATCURR=0.5,RTMP=105,	QUAN=1 ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=40,TMPR=0.11900 133,AMPS=0,ADJF=1,SM=1,SM=1,
	Connector, General J5,Conn, B2C,TB, Male, 1x5,1.25mm, SMD	1	TYPEGC=Rectangular,QUALOT=Lower PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=5,RATCURR=0 5,RTMP=105,	QUAN=1 ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=40,TMPR=0 11900 133,AMPS=0,ADJF=1,SM=1,SM=1,
1.1.107	Connector, General,J3,0.5mm FFC/FPC DUAL CONTACT SIDE CONNECTOR	1	TYPEGC=Rectangular,QUALO1=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=50,RATCURR=0.5,RTMP=105.	QUAN=1.ENVI=Ground,fixed CONN=Reflow Solder,MATU=1,TEMP=40,TMPR=0.11900 133.AMPS=0,ADJF=1,SM=1,SM=1,
1 1.108	Coil,L4.Power inductor, 4.7uH 20%,2.0A SMD	1	CONSCO=Fixed,QUALCO=MilSpec,PINS=2,RADA=2,RTMP=125,RATVOLT=220,	QUAN=1 ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,TMPR=1 0,POWL=0,OVLT=110,ADJF=1,SM=1,SM=1
1 1.109	Coil,L23.Power inductor, 4.7uH,20% ,2.0A SMD	1	CONSCO=Fixed,QUALCO=MilSpec,PINS=2,RADA=2,RTMP=125,RATVOLT=220,	QUAN=1.ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,TMPR=6.25,POWL=0,OVLT=110,ADJF=1,SM=1,SM=1.

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.1:0	Coil,L1,Power inductor, 2.2uH,20%,1.5A,SMD	1	CONSCO=Fixed,QUALCO=Mil Spec,PINS=2,RADA=1.5,RTMP=125,RATVOLT=220,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,TMPR=10,POWL=0,OVLT=110,ADJF=1,SM=1,SM=1,
1.1.1:1	Coil,L5,Power inductor, 2.2uH,20%,1.5A,SMD	1	CONSCO=Fixed,QUALCO=Mil Spec,PINS=2,RADA=1.5,RTMP=125,RATVOLT=220,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,TMPR=10,POWL=0,OVLT=110,ADJF=1,SM=1,SM=1,
1.1.1:2	Coil,L6,Power inductor, 2.2uH,20%,1.5A,SMD	1	CONSCO=Fixed,QUALCO=Mil Spec,PINS=2,RADA=1.5,RTMP=125,RATVOLT=220,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,TMPR=10,POWL=0,OVLT=110,ADJF=1,SM=1,SM=1,
1.1.1:3	Coil,L7,Power inductor, 2.2uH,20%,1.5A,SMD	1	CONSCO=Fixed,QUALCO=Mil Spec,PINS=2,RADA=1.5,RTMP=125,RATVOLT=220,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,TMPR=10,POWL=0,OVLT=110,ADJF=1,SM=1,SM=1,
1.1.1:4	Coil,L24,Power inductor, 2.2uH,20%,1A,SMD	1	CONSCO=Fixed,QUALCO=Mil Spec,PINS=2,RADA=1,RTMP=125,RATVOLT=220,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,TMPR=10,POWL=0,OVLT=110,ADJF=1,SM=1,SM=1,
1.1.1:5	Micro, Linear,U2,Dual-channel ultra-low noise 256 micro-stepping low-voltage motor driver	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=32 THCA=50,THJC=28,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=40,CTMP=45,POWR=0.1,ACTC=32,ADJF=1,SM=1,SM=1,
1.1.1:6	Micro, Linear,U8,Dual ground sense operational amplifier	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=8,THCA=50,THJC=28,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=40,CTMP=45,POWR=0.1,ACTC=8,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.117	Micro, Linear U14.300-mA, Low-Dropout Regulator	1	TECH=Comp Meta. Oxide Semicon,PACKIC=Surface Mount Tech QUALMI=Class B,TRAS=24,YEAR=2,PINS=5,THCA=50,THJC=28,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=40,CTMP=45,POWR=0.1,ACTC=5,ADJF=1,SM=1,SM=1,
1.1.118	Micro, Linear,U15.300-mA, Low-Dropout Regulator	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=5,THCA=50,THJC=28,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=40,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=40,CTMP=45,POWR=0.1,ACTC=5,ADJF=1,SM=1,SM=1,
1.1.119	Micro, Linear,U18.300-mA, Low-Dropout Regulator	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=5,THCA=50,THJC=28,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=40,CTMP=45,POWR=0.1,ACTC=5,ADJF=1,SM=1,SM=1,
1.1.120	External,IMX335,Image Sensor,Diagonal 8.40mm(Type 1/2.8) CMOS Solid-state Image Sensor	1	RATE=0.15,PINS=88,External Temp Model=No,	QUAN=1,CONN=Reflow Solder,ADJF=1,TEMP=40,TEMP=125,TEMP=1,SM=1,SM=1,
2	Block,MainBoard(CPU CV28s33m	1	QUALMI=Commercial or Unknown,QUALDS=Jan,QUALRS=Nonestablished Reliab,QUALCR=Nonestablished Reliab,QUALCO=Mil Spec,QUALRY=Class M,QUALSS=Mil Spec,QUALSA=High Quality Part,QUALQT=Mil Spec	QUAN=1,REPM=Non-Repairable,ENVI=Ground,fixed,CONN=Reflow Solder,MTTR=0,NOST=0,TEMP=30,VSTRESS=0.80000001,CSTRESS=0.89999998,PSTRESS=0.75,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1	IA, Surface Mount Tech	1	LEAD=Leadless,BTCE=7,PTCE=7,SOJD=500 SOJH=5,THJC=45,	QUAN=1,ENVI=Ground,fixed,CYRA=1,SDLC=8760 POWR=0.1,ADJF=1,
2.1.1	Resistor,R155,10K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625 PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0.0057600002,APPPOWER=3.6000001e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.2	Resistor,R20 54.9K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0.005264,APPPOWER=0.000329,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.3	Resistor,R24,31.6K? ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0.003295,APPPOWER=0.000206,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
	Resistor,R154,20K?± 1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0.001152,APPPOWER=7.2000003e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
	Resistor,R160,25.5K ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=1.406e-5,APPPOWER=5.6000002e-7,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.6	Resistor,R161,100K? ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=5.7599998e-5,APPPOWER=3.5999999e-6,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.7	Resistor,R1352,24K? ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0.0016,APPPOWER=9.9999997e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.8	Resistor,R1339,37.4 ?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0.10668,APPPOWER=0.0066800001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.9	Resistor,R202,470?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0.001264,APPPOWER=7.8999998e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.10	Resistor,R203,470?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0.001264,APPPOWER=7.8999998e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.11	Resistor,R206,470?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0.2288,APPPOWER=0.0143,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.12	Resistor,R210,470?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0.2288,APPPOWER=0.0143,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.13	Resistor,R16,100K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=5.76e-6,APPPOWER=3.6e-7,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.14	Resistor,R22,100K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=5.76e-6,APPPOWER=3.6e-7,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.15	Resistor,R151,330?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0,APPPOWER=0,CONN=Reflow Solder,ADJF=1,SM=1,SM=1
2.1.16	Resistor,R333,330?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0,APPPOWER=0,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.17	Resistor,R150,33?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0,APPPOWER=0,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.18	Resistor R332,33?± 5% 0402	1	STYLRS=Fixed Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0 APPPOWER=0,CONN=Reflow Solder,ADJF=1,SM=1.SM=1,
2.1.19	Resistor,R131,560?± 5% 0402	1	STYLRS=Fixed,Film High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0.034559999,APPPOWER=0.0021599999,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.20	Resistor,R134,560?± 5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground fixed,TEMP=40,POWR=0.1,PSTRESS=0.034559999,APPPOWER=0.0021599999,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.21	Resistor,R135,560?± 5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0.034559999,APPPOWER=0.0021599999,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.22	Resistor,R1372,10K? ±1% 0402	1	STYLRS=Fixed Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0.0134,APPPOWER=0.00065,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.23	Resistor R159,10K?± 1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0.0005760002,APPPOWER=3.6000001e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.24	Resistor,R157,10K?± 1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0.0005760002,APPPOWER=3.6000001e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.25	Resistor,R155,10K?± 1% 0402	1	STYLRS=Fixed,Film High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0.0005760002,APPPOWER=3.6000001e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.26	Resistor,R152,10K?± 1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,POWR=0.1,PSTRESS=0.0093599998,APPPOWER=0.00058499997,CONN=Reflow Solder,ADJF=1,SM=1,SM=1

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.27	Resistor,R2?,10K?±1 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.009359999?,APP POWER=0.00056499997,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.28	Resistor,R352,10K?± 1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.0051839999,APP POWER=0.00032399999,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.29	Resistor,R289,10K?± 1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.0051839999,APP POWER=0.00032399999,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.30	Resistor,R265,10K?± 1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.000789999?,AP PPOWER=4.8999998e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.31	Resistor,R226,10K?± 1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.000789999?,AP PPOWER=4.8999998e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.32	Resistor,R214,10K?± 1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.017424,APPPOW ER=0.001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.33	Resistor,R208,10K?± 1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.033440001,APPP OWER=0.0020900001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.34	Resistor,R207,10K?± 1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.017424,APPPOW ER=0.001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.35	Resistor,R205,10K?± 1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.033440001,APPP OWER=0.0020900001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.36	Resistor,R197,10K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.039999999,APPP OWER=5.0024999999,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.37	Resistor,R196,10K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.039999999,APPP OWER=0.0024999999,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.38	Resistor,R26,10K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.0007839999,APPPOWER=4.8999996e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.39	Resistor,R5,10K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.0[illegible]7424,APPPOWER=0.00[illegible]089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.40	Resistor,R32,4.7K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.011024,APPPOWER=0.00068900001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1
2.1.41	Resistor,R100,4.7K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.015622,APPPOWER=0.00097699999,CONN=Reflow Solder,ADJF=1,SM=1,SM=1
2.1.42	Resistor,R192,4.7K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.0076640001,APPPOWER=0.00047900001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.43	Resistor,R193,4.7K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.0076640001,APPPOWER=0.00047900001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.44	Resistor,R194,4.7K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.0076640001,APPPOWER=0.00047900001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.45	Resistor,R195,4.7K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.0076640001,APP POWER=0.0004790001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.46	Resistor,R25,0?±5% 0201	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0500000001,P INS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.47	Resistor,R31,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.48	Resistor,R33,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.49	Resistor,R135,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.50	Resistor,R158,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.51	Resistor,R165,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.52	Resistor,R304,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.53	Resistor,R305,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.54	Resistor,R359,0?±5 % 0402	1	STYLRS=Fixed Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.55	Resistor,R360,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.56	Resistor,R361,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1
2.1.57	Resistor,R362,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.58	Resistor,R363,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
	Resistor,R364,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.60	Resistor,R365,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.61	Resistor,R366,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1
2.1.62	Resistor,R367,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.63	Resistor,R368,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.64	Resistor,R369,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.65	Resistor,R1322,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.66	Resistor,R1323,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.67	Resistor,R1325,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.68	Resistor,R1327,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.69	Resistor,R1344,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1
2.1.70	Resistor,R1355,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.71	Resistor,R1363,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.72	Resistor,R1375,0?±5 % 0402	1	STYLRS=Fixed,Film High Stab,QUALRS=Class M,RATPOWER=0.0625 PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.73	Resistor,R1377,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.74	Resistor,R6,1K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.05184,APPPOWE R=0.00324,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.75	Resistor,R7,1K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.05184,APPPOWE R=0.00324,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.76	Resistor,R13,1K?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.01936,APPPOWE R=0.00121,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
	Resistor,R49,1K?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.01936,APPPOWE R=0.00121,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.78	Resistor,R101,1K?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.003025,APPPOW ER=0.000209,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.79	Resistor,R225,1K?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.01936,APPPOWE R=0.00121,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.80	Resistor,R259,1K?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625 PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1 PSTRESS=0.01936,APPPOWE R=0.00121,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.81	Resistor,R260.1K?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.003328,APPPOW ER=0.000208,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.82	Resistor,R264.1K?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.01936,APPPOWE R=0.00121,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.83	Resistor,R10.2K?±1 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.071999997,APPP OWER=0.004499998,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.84	Resistor,R950.1K?±1 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.005760001,APP POWER=0.000360000001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.85	Resistor,R951.1K?±1 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.005760001,APP POWER=0.000360000001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.86	Resistor,R153.100K? ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.0017424,APPPO WER=0.0001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.87	Resistor,R156.100K? ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.0017424,APPPO WER=0.0001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.88	Resistor,R162.100K? ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.0017424,APPPO WER=0.0001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.89	Resistor,R163.100K? ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.000230399999,AP PPOWER=1.44e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.90	Resistor,R164,100K? ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.0017424,APPPO WER=0.0001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.91	Resistor,R215,100K? ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.021919999,APPP OWER=0.00137,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.92	Resistor,R236,100K? ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.0017424,APPPO WER=0.0001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.93	Resistor,R161,100K? ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=5.7599999e-5,APPP OWER=3.5999999e-6,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.94	Resistor,R200,4.7K? ±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.011024,APPPOW ER=0.00068900001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.95	Resistor,R201,4.7K? ±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.011024,APPPOW ER=0.00068900001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.96	Resistor,R211,4.7K? ±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.036800001,APPP OWER=0.0023000001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.97	Resistor,R243,4.7K? ±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.036800001,APPP OWER=0.0023000001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.98	Resistor,R244,4.7K? ±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.036800001,APPP OWER=0.0023000001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.99	Resistor,R327,4.7K? ±5% 0402	1	STYLRS=Fixed,Film,High Stab.QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.036800001,APPP OWER=0.0023000001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.100	Resistor,R343,4.7K? ±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.036800001,APPP OWER=0.0023000001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.101	Resistor,R355,4.7K? ±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.036800001,APPP OWER=0.0019,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.102	Resistor,R1338,4.7K ?±5% 0402	1	STYLRS=Fixed,Film,High Stab.QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.036800001,APPP OWER=0.0023000001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.103	Resistor,R1343,4.7K ?±5% 0402	1	STYLRS=Fixed,Film,High Stab.QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.036800001,APPP OWER=0.0023000001,CONN=Reflow Soldor,ADJF=1,SM=1,SM=1,
2.1.104	Resistor,R1345,4.7K ?±5% 0402	1	STYLRS=Fixed,Film,High Stab.QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.011024,APPPOW ER=0.0006890001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.105	Resistor,R146,4.7K? ±5% 0402	1	STYLRS=Fixed,Film,High Stab.QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.036800001,APPP OWER=0.0023000001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.106	Resistor,R147,4.7K? ±5% 0402	1	STYLRS=Fixed,Film,High Stab.QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=40,P OWR=0.1,PSTRESS=0.036800001,APPP OWER=0.0023000001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.107	Capacitor,C4,22pF±5 % 50V NP0 0402	1	STYLCR=Ceramic,Genera ,ER. QUALCR=Class M,CAPC=2.2e-5,RATVOLT=50, PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.80000002,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.108	Capacitor,C 91,0.01 uF±10% 100V X7R 0402	1	STYLCR=Ceramic,General,ER QUALCR=Class M,CAPC=0.0099999998,RATV OLT=100,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=12,VSTRESS=0.12,CR ES=0.60000002,ADJF=1.SM=1.SM=1.
2.1.109	Capacitor,C2,0.1uF± 10% 50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=1.8,VSTRESS=0.03599 9998,CRES=0.60000002,ADJF=1,SM=1.S M=1,
2.1.110	Capacitor,C7,0.1uF+/ -10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=12,VSTRESS=0.239999 99,CRES=0.60000002,ADJF=1,SM=1,SM= 1.
2.1.111	Capacitor,C19,1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=1,RATVOLT=50,PINS =2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=12,VSTRESS=0.239999 09,CRES=0.60000002,ADJF=1,SM=1,SM= 1.
	Capacitor,C240,2.2u F±10% 25V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=2.2,RATVOLT=25,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=0.80000001,VSTRESS= 0.032000007,CRES=0.50000002,ADJF=1, SM=1,SM=1,
2.1.113	Capacitor,C43,4.7uF ±10% 50V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=4.6999996,RATVOLT =50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1.SM=1,SM=1,
2.1.114	Capacitor,C87,10uF= 10% 50V X5R 0805	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=50,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=12,VSTRESS=0.239999 99,CRES=0.60000002,ADJF=1,SM=1,SM= 1.
2.1.115	Capacitor,C124,22uF =10% 50V X5R 1206	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=22,RATVOLT=50,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1.SM=1,SM=1.

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.116	Capacitor,C 35,47uF ±20% 10V X5R 1206	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=47,RATVOLT=10,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.32999 998,CRES=0.60000002,ADJF=1,SM=1,SM =1,
2.1.117	Capacitor,C269,0.33 nF±10% 50V,X7R,0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.33000001,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.118	Capacitor,C241,2.2uF±10% 25V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=2.2,RATVOLT=25,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.048,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.119	Capacitor,C1652,0.0 1uF±10% 100V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.00999999978,RATVOLT=100,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=5,VSTRESS=0.0500000 01,CRES=0.60000002,ADJF=1,SM=1,SM= 1,
2.1.120	Capacitor,C140,0.22 uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.22,RATVOLT=50,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.121	Capacitor,C220,0.22 uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.22,RATVOLT=50,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.122	Capacitor,C229,0.22 uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.22,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.123	Capacitor,C125,22uF ±20%50V X5R 0805	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=22,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015, CRES=0.60000002,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.124	Capacitor,C127,22uF ±20%50V X5R 0805	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=22,RATVOLT=50,PIN S=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.0 5, CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.125	Capacitor,C1642,22u F±20%50V X5R 0805	1	STYLCR=Ceramic,Genera ,ER, QUALCR=Class M,CAPC=22,RATVOLT=50,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.126	Capacitor,C120,22uF ±20%50V X5R 0805	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=22,RATVOLT=50,PIN S=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=5.5,VSTRESS=0.1,CRES =0.60000002,ADJF=1,SM=1,SM=1,
2.1.127	Capacitor,C86,22uF± 20%50V X5R 0805	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=22,RATVOLT=50,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.128	Capacitor,C270,22uF ±20%50V X5R 0805	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=22,RATVOLT=50,PIN S=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.129	Capacitor,C87,10uF± 10% 25V X5R 0805	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=25,PIN S=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.048,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.130	Capacitor,C110,10uF ±10% 25V X5R 0805	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=25,PIN S=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=2.5,VSTRESS=0.1,CRE S=0.60000002,ADJF=1,SM=1,SM=1,
2.1.131	Capacitor,C49,4.7uF ±10% 50V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=4.6999998,RATVOLT =50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.132	Capacitor,C56,4.7uF ±10% 50V	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=4.6999998,RATVOLT =50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=1.8,VSTRESS=0.03599 9998,CRES=0.60000002,ADJF=1,SM=1,S M=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.133	Capacitor,C61,4.7uF +10% 50V	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=4.6999998,RATVOLT =50,PINS=2,	QUAN=1 ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1 SM=1,
2.1.134	Capacitor,C197,4.7u F±10% 50V	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=4.6999998,RATVOLT =50,PINS=2,	QUAN=1 ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.135	Capacitor,C199,4.7u F±10% 50V	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=4.6999998,RATVOLT =50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.136	Capacitor,C301,4.7u F±10% 50V	1	STYLCR=Ceramic,General,ER QUALCR=Class M,CAPC=4.6999999,RATVOLT =50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.137	Capacitor,C42,10uF± 10% 25V X5R 0805	1	STYLCR=Ceramic,General,ER QUALCR=Class M,CAPC=10,RATVOLT=25,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.048,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.138	Capacitor,C209,10uF ±10% 25V X5R 0805	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=25,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=12,VSTRESS=0.479999 99,CRES=0.60000002,ADJF=1,SM=1,SM= 1,
2.1.139	Capacitor,C213,10uF ±10% 25V X5R 0805	1	STYLCR=Ceramic,General,ER QUALCR=Class M,CAPC=10,RATVOLT=25,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=12,VSTRESS=0.479999 99,CRES=0.60000002,ADJF=1,SM=1,SM= 1
2.1.140	Capacitor,C218,10uF ±10% 25V X5R 0805	1	STYLCR=Ceramic,General,ER QUALCR=Class M,CAPC=10,RATVOLT=25,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=12,VSTRESS=0.479999 99,CRES=0.60000002,ADJF=1,SM=1,SM= 1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.141	Capacitor,C265,10uF ±10% 25V X5R 0805	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=25,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.132,CRES=0.60000002,ADJF=1,SM=1,SM=1
2.1.142	Capacitor,C57,1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.8,VSTRESS=0.035999998,CRES=0.60000002,ADJF=1,SM=1,SM=1
2.1.143	Capacitor,C62,1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,
2.1.144	Capacitor,C65,1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.80000001,VSTRESS=0.016000001,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.145	Capacitor,C69,1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=1,RATVOLT=50,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.8,VSTRESS=0.035999998,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.146	Capacitor,C73,1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.147	Capacitor,C142,1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.148	Capacitor,C145,1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.149	Capacitor,C155,1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=1,RATVOLT=50,PINS =2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=5,VSTRESS=0.1,CRES =0.60000002,ADJF=1,SM=1,SM=1,
2.1.150	Capacitor,C249,1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=22,RATVOLT=50,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1.SM=1.
2.1.151	Capacitor,C134,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.152	Capacitor,C141,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.153	Capacitor,C143,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.154	Capacitor,C144,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.155	Capacitor,C157,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.156	Capacitor,C160,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=5,VSTRESS=0.1,CRES =0.60000002,ADJF=1,SM=1,SM=1,
2.1.157	Capacitor,C162,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=12,VSTRESS=0.239999 99,CRES=0.60000002,ADJF=1,SM=1,SM=1.

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.158	Capacitor C181,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.159	Capacitor,C183,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.160	Capacitor,C185,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.161	Capacitor,C187,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.162	Capacitor,C189,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.163	Capacitor,C190,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.164	Capacitor,C198,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.165	Capacitor,C206,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=5,VSTRESS=0.1,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.166	Capacitor,C210,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=12,VSTRESS=0.239999 99,CRES=0.60000002,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2 1.167	Capacitor,C211,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,Genera ,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2	QUAN=1,ENVI=Ground,fixed, TEMP=40,C ONN=Reflow Solder,APPVOLT=12,VSTRESS=0.239999 99,CRES=0.60000002,ADJF=1,SM=1,SM= 1,
2 1.168	Capacitor,C212,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=12,VSTRESS=0.239999 99,CRES=0.60000002,ADJF=1,SM=1,SM= 1,
2.1.169	Capacitor,C215,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.170	Capacitor,C219,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=12,VSTRESS=0.239999 99,CRES=0.60000002,ADJF=1,SM=1,SM= 1,
	Capacitor,C225,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.172	Capacitor,C228,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2 1.173	Capacitor,C232,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.174	Capacitor,C235,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,Genera.,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,C RES=0.60000002,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.175	Capacitor,C237,0.1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.176	Capacitor,C239,0.1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=2.5,VSTRESS=0.05000000,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.177	Capacitor,C260,0.1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.178	Capacitor,C263,0.1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.179	Capacitor,C267,0.1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.180	Capacitor,C268,0.1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.8,VSTRESS=0.005999999,CRES=0.50000002,ADJF=1,SM=1,SM=1,
2.1.181	Capacitor,C334,0.1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.09999999,VSTRESS=0.014,CRES=0.80000002,ADJF=1,SM=1,SM=1,
2.1.182	Capacitor,C347,0.1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.183	Capacitor,C1631,0.1 uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1.SM=1.SM=1.
2.1.184	Capacitor,C85,0.1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER. QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1.SM=1.SM=1,
2.1.185	Capacitor,C271,0.1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER. QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed, TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1.SM=1,
2.1.186	Capacitor C300 0.1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER. QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1.SM=1 SM=1,
2.1.187	Capacitor,C88 0.1uF ±10% 50V X5R 0201	1	STYLCR=Ceramic General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1.SM=1.
2.1.188	Capacitor C80,0.1uF ±10% 50V X5R0201	1	STYLCR=Ceramic,General,ER. QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1.SM=1
2.1.189	Capacitor,C111,0.1uF ±10% 50V X5R 0201	1	STYLCR=Ceramic General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed TEMP=40,CONN=Reflow Solder,APPVOLT=2.5,VSTRESS=0.050000001,CRES=0.60000002,ADJF=1.SM=1.SM=1,
2.1.190	Capacitor,C112,0.1uF ±10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER. QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=2.5,VSTRESS=0.050000001,CRES=0.60000002,ADJF=1.SM=1.SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.191	Capacitor,C846,0.1uF ±10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.192	Capacitor,C20,0.1 µF +10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.193	Capacitor,C21,0.1uF +10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.194	Capacitor,C22,0.1uF ±10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.195	Capacitor,C23,0.1uF ±10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.196	Capacitor,C24,0.1uF ±10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.197	Capacitor,C25,0.1uF ±10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.198	Capacitor,C26,0.1 µF ±10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.199	Capacitor,C27,0.1 µF ±10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015,CRES=0.60000002,ADJF=1,SM=1,SM=1,

Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.200	Capacitor,C29,0.1uF ±10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015, CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.201	Capacitor,C30,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015, CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.202	Capacitor,C31,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015, CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.203	Capacitor,C32,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015, CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.204	Capacitor,C33,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015, CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.205	Capacitor,C34,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015, CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.206	Capacitor,C35,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015, CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.207	Capacitor,C36,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015, CRES=0.60000002,ADJF=1,SM=1,SM=1
2.1.208	Capacitor,C37,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015, CRES=0.60000002,ADJF=1,SM=1,SM=1,

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2.1.209	Capacitor,C38,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.210	Capacitor,C39,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.211	Capacitor,C40,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.212	Capacitor,C41,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.213	Capacitor,C44,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.214	Capacitor,C45,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.215	Capacitor,C46,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.50000002,ADJF=1,SM=1,SM=1
2.1.216	Capacitor,C47,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.217	Capacitor,C48,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,

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2.1.218	Capacitor,C50,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.219	Capacitor,C51,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.220	Capacitor,C52,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.221	Capacitor,C62,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1
2.1.222	Capacitor,C64,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1
2.1.223	Capacitor,C65,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=40,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.224	Diode, Low Frequency,D7,TVS,8.15V,1500W,SMC	1	CONSLD=Non-Metal Bonded,QUALDS=Glass,NJNS=1,PINS=2,THCA=50,THJC=70,RATP=1500,RATVOLT=15,RATVOLT=150,RATVOLT=0.	QUAN=1,APPLLD=Transient Suppressor,ENVI=Ground,fixed,JTMP=45,MODE=User Defined Junct Temp,TEMP=40,CONN=Reflow Solder,CTMP=35,POWR=0.1,VSTRESS=0.80000001,APPVOLT=12,ADJF=1,SM=1,SM=1,
2.1.225	Diode, High Frequency,D6,3.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER	1	TYPEHD=Schottky Barrier,QUALDS=Plastic,PINS=2,THCA=50,THJC=70,RATP=1.5,RATVOLT=20,RATVOLT=150,RATVOLT=0.	QUAN=1,APPLHD=All Other HF Diodes,ENVI=Ground,fixed,JTMP=45,MODE=User Defined Junct Temp,TEMP=40,CONN=Reflow Solder,CTMP=35,POWR=0.1,APPVOLT=1.2,ADJF=1,SM=1,SM=1,

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Approved By : R.Radhika.

Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.226	Diode, Low Frequency,D111,Thyristors Solid Protection Device Bidirectional transient voltage suppressors	-	CONSLD=Non-Metal Bonded,QUALDS=Lower,NJNS=1 PINS=2,THCA=50,THJC=70,RATP=400,RATVOLT=3 3,RATVOLT=150,RATVOLT=0	QUAN=1,APPLLD=Transient Suppressor,ENVI=Ground,fixed,JTMP=45,MODE=User Defined Junct Temp,TEMP=40,CONN=Reflow Solder,CTMP=35,POWR=0.1,VSTRESS=0,APPVOLT=0,ADJF=1,SM=1,SM=1,
2.1.227	Diode, Low Frequency,D112,Thyristors Solid Protection Device Bidirectional transient voltage suppressors	1	CONSLD=Non-Metal Bonded,QUALDS=Lower,NJNS=1,PINS=2,THCA=50,THJC=70,RATP=400,RATVOLT=100,RATVOLT=150,RATVOLT=0,	QUAN=1,APPLLD=Transient Suppressor,ENVI=Ground,fixed,JTMP=45,MODE=User Defined Junct Temp,TEMP=40,CONN=Reflow Solder,CTMP=35,POWR=0.1,VSTRESS=0,APPVOLT=0,ADJF=1,SM=1,SM=1,
2.1.228	Diode, Low Frequency,D10,High Property Device for Surge & ESD	1	CONSLD=Metallurgically Bonded,QUALDS=Lower,NJNS=1,PINS=2,THCA=50,THJC=70,RATP=1,RATVOLT=15,RATVOLT=150,RATVOLT=0,	QUAN=1,APPLLD=Transient Suppressor,ENVI=Ground,fixed,JTMP=45,MODE=User Defined Junct Temp,TEMP=40,CONN=Reflow Solder,CTMP=35,POWR=0.1,VSTRESS=0.400000001,APPVOLT=6,ADJF=1,SM=1,SM=1,
2.1.229	Diode, Low Frequency,D11,High Property Device for Surge & ESD	1	CONSLD=Metallurgically Bonded,QUALDS=Lower,NJNS=1,PINS=2,THCA=50,THJC=70,RATP=1,RATVOLT=15,RATVOLT=150,RATVOLT=0,	QUAN=1,APPLLD=Transient Suppressor,ENVI=Ground,fixed,JTMP=45,MODE=User Defined Junct Temp,TEMP=40,CONN=Reflow Solder,CTMP=35,POWR=0.1,VSTRESS=0.400000001,APPVOLT=6,ADJF=1,SM=1,SM=1,
2.1.230	Diode, High Frequency,D9,Schottky Barrier Diode	1	TYPEHD=Schottky Barrier,QUALDS=Lower,PINS=3,THCA=50,THJC=70,RATP=0.099999997,RATVOLT=30,RATVOLT=150,RATVOLT=0,	QUAN=1,APPLHD=All Other HF Diodes,ENVI=Ground,fixed,JTMP=45,MODE=User Defined Junct Temp,TEMP=40,CONN=Reflow Solder,CTMP=45,POWR=0.1,APPVOLT=18,ADJF=1,SM=1,SM=1,

Analyst : N.Venkata Naga Aravind:
Compiled By : V.Jambulingam:
Approved By : R.Radhika:

Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.231	Quartz Crystal,X1,24MHz,SMD 3.2*2.5mm,20pF,±20 PPM	1	QUALOT=Mil Spec,FREQQC=24,RATVOLT=0,PINS=4,	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,APPVOLT=1.8,ADJF=1,
2.1.232	Quartz Crystal,X2,32.768KHz,12.5pF,±20PPM,3.2*1.5,SMD	1	QUALOT=Mil Spec,FREQQC=0.032768,RATVOLT=0,PINS=2,	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,APPVOLT=1.8,ADJF=1,
2.1.233	Connector, General,J2,Conn, B2C,TB, Male, 1x3, 1.25mm, SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=3,RATCURR=0.5,RTMP=105,	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=40,TMPR=0.11900133,AMPS=0,ADJF=1,SM=1,SM=1,
2.1.234	Connector, General,J6,Conn, B2C,TB, Male, 1x5, 1.25mm, SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=5,RATCURR=0.5,RTMP=105,	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=40,TMPR=0.00605978B3,AMPS=0.1,ADJF=1,SM=1,SM=1.
2.1.235	Connector, General,J18,Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=2,RATCURR=0.5,RTMP=105,	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=40,TMPR=0.11900133,AMPS=0,ADJF=1,SM=1,SM=1.
2.1.236	Connector, General,J29,Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=2,RATCURR=0.5,RTMP=105,	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=40,TMPR=0.11900133,AMPS=0,ADJF=1,SM=1,SM=1,
2.1.237	Connector, General,J1,Conn, B2C,TB, Male, 1x4, 1.25mm, SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=4,RATCURR=0.5,RTMP=105,	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=40,TMPR=0.11900133,AMPS=0,ADJF=1,SM=1,SM=1,

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Approved By : R.Radhika.

Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.238	Connector, General,J12 Conn B2C,TB, Male 1x4,1.25mm, SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=4,RATCURR=0.5,RTMP=105.	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=40,TMPR=0.11900133,AMPS=0,ADJF=1,SM=1,SM=1.
2.1.239	Connector, General,J8,Conn B2C, Male, 1x2, 1.25mm, ST, SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=2,RATCURR=0.5,RTMP=105	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=40,TMPR=0.00849006615,AMPS=0.12,ADJF=1,SM=1,SM=1
2.1.240	Connector, General,J10,Conn, B2C, Male, 1x2, 1.25mm, ST, SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=2,RATCURR=0.5,RTMP=105	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=40,TMPR=0.11900133,AMPS=0,ADJF=1,SM=1,SM=1,
2.1.241	Connector, General,J3,Conn, B2C, Male, 1x10, 1.25mm, ST, SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=10,RATCURR=0.5,RTMP=105,	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=40,TMPR=0.11900133,AMPS=0,ADJF=1,SM=1,SM=1,
2.1.242	Connector, General,J7,Conn B2C, Male, 1x12, 1.25mm, ST, SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=12,RATCURR=0.5,RTMP=105,	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=40,TMPR=0.02184554,AMPS=0.2,ADJF=1,SM=1,SM=1,
2.1.243	Connector, General,J5,0.5mm FFC/FPC DUAL CONTACT SIDE CONNECTOR	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=50,RATCURR=0.5,RTMP=105.	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=40,TMPR=0.11900133,AMPS=0,ADJF=1,SM=1,SM=1.

Analyst : N Venkata Naga Aravind
Compiled By : V.Jambulingam
Approved By : R.Rachika:

Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.244	Micro, Linear,U18,DIFFERENTIAL BUS TRANSCEIVERS	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=8,THCA=50,THJC=28,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=40,CTMP=45,POWR=0.1,ACTC=8,ADJF=1,SM=1,SM=1,
2.1.245	Micro, Linear,U61, 1A high-efficiency synchronous step-down converter	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=5,THCA=50,THJC=28,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=40,CTMP=45,POWR=0.1,ACTC=5,ADJF=1,SM=1,SM=1,
2.1.246	Micro, Linear,U60 300-mA, Low-Dropout Regulator	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=5,THCA=50,THJC=28,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=40,CTMP=45,POWR=0.1,ACTC=5,ADJF=1,SM=1,SM=1,
2.1.247	Micro, Linear,U21,2A high-efficiency synchronous step-down converter	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=5,THCA=50,THJC=25,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=40,CTMP=45,POWR=0.1,ACTC=5,ADJF=1,SM=1,SM=1,
2.1.248	Micro, Linear,U50,2A high-efficiency synchronous step-down converter	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=5,THCA=50,THJC=25,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=40,CTMP=45,POWR=0.1,ACTC=5,ADJF=1,SM=1,SM=1,

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Compiled By : V Jambulingam
Approved By : R Radhika

Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.249	Micro. Linear U51,2A high-efficiency synchronous step-down converter	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=5,THCA=50,THJC=28,RATP=1,RATP=125,RATP=C,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=40,CTMP=45,POWR=0.1,ACTC=6,ADJF=1,SM=1,SM=1,
2.1.250	Micro. Linear,U20,2A synchronous step-down converter	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=6,THCA=50,THJC=28,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=40,CTMP=45,POWR=0.1,ACTC=6,ADJF=1,SM=1,SM=1,
2.1.251	Micro. Linear,U9, 2-Bit, 2-Supply, Bus Transceiver with Configurable Level-Shifting/Translation and 3-State Outputs and	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=8,THCA=50,THJC=28,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=40,CTMP=45,POWR=0.1,ACTC=6,ADJF=1,SM=1,SM=1,
2.1.252	Micro. Linear,U34,microprocessor (?P) supervisory circuits	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=4,THCA=50,THJC=28,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=40,CTMP=45,POWR=0.1,ACTC=4,ADJF=1,SM=1,SM=1,
2.1.253	Micro. Linear,U19,2A synchronous step-down converter	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=6,THCA=50,THJC=28,RATP=1,RATP=0,RATP=0.0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=40,CTMP=45,POWR=0.1,ACTC=6,ADJF=1,SM=1,SM=1,

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Approved By : R.Radhika:

Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.254	Micro, Digital,IC,SERIAL NAND 2Gb,WSON8	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,GATS=100,YEAR=2,PINS=8, THCA=50,THJC=28,RATP=1,R ATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTM P=45,MODE=User Defined Junct Temp,TEMP=40,CONN=Reflow Solder,CTMP=35,POWR=0.1,ACTC=8,AD JF=1,SM=1,SM=1.
2.1.255	Micro, Nol EEPROM U15,IC,ME M 4Gb,1200Mhz, DDR4,BGA96	1	TYPEMM=DRAM,TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,KBIT=3200000,YEAR=2,PINS =96,THCA=50,THJC=28,RATP =1,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTM P=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=40,CTMP=35,POWR=0.1,A CTC=95,ADJF=1,SM=1,SM=1
1.1.256	External,Digital,U1,IC ,CV25S66M, Ambarella vision processor,VFBGA-28 8_C 65_11*12mm	1	RATE=0.01074,PINS=288,Exter nal Temp Model=No,	QUAN=1,CONN=Reflow Solder,ADJF=1,TEMP=40,TEMP=125,TE MP=1,SM=1,SM=1.
1.1.257	External,U25,300-mA , Low-Dropout Regulator	1	RATE=0.063277997,PINS=8,Ex ternal Temp Model=No,	QUAN=1,CONN=Reflow Solder,ADJF=1,TEMP=40,TEMP=125,TE MP=1,SM=1,SM=1.
1.1.258	Micro, Linear,U54,10/100Mb ps single-port Physical Layer transceiver	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=28, THCA=50,THJC=28,RATP=1,R ATP=0,RATP=0,RATP=0.0,RA TP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTM P=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=40,CTMP=45,POWR=0.1,A CTC=28,ADJF=1,SM=1,SM=1.

Analyst : N.Venkata Naga Aravind.
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Approved By : R.Radhika

Annexure- I

PARTS LIST REPORT

(Temperature 25 ℃)

EFKON INDIA PVT. LTD.

MII - HDBK - 217F PART LIST REPORT

Name: SC-IND22XP-I(Z)(S)
Failure Rate: 7.2192492
MTBF: 138518.56

Name	Category Description	Description	Quantity
1	Block	Block,ImageSensor IMX335	1
1.1	IA, Surface Mount Tech	IA, Surface Mount Tech	1
1.1.1	Resistor	Resistor,R1,4.99K?±1% 0402	1
1.1.2	Resistor	Resistor,R2,4.99K?±1% 0402	1
1.1.3	Resistor	Resistor,R71,10K?±5% 0402	1
1.1.4	Resistor	Resistor,R73,10K?±5% 0402	1
1.1.5	Resistor	Resistor,R75,10K?±5% 0402	1
1.1.6	Resistor	Resistor,R186,10K?±5% 0402	1
1.1.7	Resistor	Resistor,R191,10K?±5% 0402	1
1.1.8	Resistor	Resistor,R197,10K?±5% 0402	1
1.1.9	Resistor	Resistor,R202,10K?±5% 0402	1
1.1.10	Resistor	Resistor,R201,10K?±5% 0402	1

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Approved By: R.Radhika:

Name	Category Description	Description	Quantity
1.1.11	Resistor	Resistor,RT19,4.7K?±5% 0402	1
1.1.12	Resistor	Resistor,R303,2K?±1% 0402	1
1.1.13	Resistor	Resistor,R305,2K?±1% 0402	1
1.1.14	Resistor	Resistor,RT21,1K?±1% 0402	1
1.1.15	Resistor	Resistor,RT23,1K?±1% 0402	1
1.1.16	Resistor	Resistor,RT15,1K?±1% 0402	1
1.1.17	Resistor	Resistor,RT16,1K?±1% 0402	1
1.1.18	Resistor	Resistor,R1,0?±5% 0402	1
1.1.19	Resistor	Resistor,R413,0?±5% 0402	1
1.1.20	Resistor	Resistor,R420,0?±5% 0402	1
1.1.21	Resistor	Resistor,R421,0?±5% 0402	1
1.1.22	Resistor	Resistor,R422,0?±5% 0402	1
1.1.23	Resistor	Resistor,R423,0?±5% 0402	1
1.1.24	Resistor	Resistor,R424,0?±5% 0402	1
1.1.25	Resistor	Resistor,R425,0?±5% 0402	1

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Name	Category Description	Description	Quantity
1.1.26	Resistor	Resistor,R194.0?±5% 0402	1
1.1.27	Resistor	Resistor,R72.0?±5% 0402	1
1.1.28	Resistor	Resistor,RT17,0?±5% 0402	1
1.1.29	Resistor	Resistor RT18.0?±5% 0402	1
1.1.30	Resistor	Resistor,FB1,0?±5% 0402	1
1.1.31	Resistor	Resistor,FB2,0?±5% 0402	1
1.1.32	Resistor	Resistor,FB3,0?±5% 0402	1
1.1.33	Resistor	Resistor,FB4,0?±5% 0402	1
1.1.34	Resistor	Resistor,BL1,0?±5% 0402	1
1.1.35	Resistor	Resistor,R2,0?±5% 0402	1
1.1.36	Resistor	Resistor,R3,0?±5% 0402	1
1.1.37	Resistor	Resistor,R210.0?±5% 0402	1
1.1.38	Resistor	Resistor,R211.0?±5% 0402	1
1.1.39	Resistor	Resistor,R212,0?±5% 0402	1
1.1.40	Resistor	Resistor,R213.0?±5% 0402	1

Name	Category Description	Description	Quantity
1.1.41	Resistor	Resistor,R214,0?±5% 0402	1
1.1.42	Resistor	Resistor,R215,0?±5% 0402	1
1.1.43	Resistor	Resistor,R216,0?±5% 0402	1
1.1.44	Resistor	Resistor,R219,0?±5% 0402	1
1.1.45	Capacitor	Capacitor,C65,22pF±5% 50V NP0 0402	1
1.1.46	Capacitor	Capacitor,C66,22pF±5% 50V NP0 0402	1
1.1.47	Capacitor	Capacitor,CT2,1000pF±10% 50V X7R 0402	1
1.1.48	Capacitor	Capacitor,C25,0.22uF±10% 50V X7R 0402	1
1.1.49	Capacitor	Capacitor,C1,1uF±10% 50V X5R 0402	1
1.1.50	Capacitor	Capacitor,C28,1uF±10% 50V X5R 0402	1
1.1.51	Capacitor	Capacitor,C350,2.2uF±10% 50V X5R 0603	1
1.1.52	Capacitor	Capacitor,C352,2.2uF±10% 50V X5R 0603	1
1.1.53	Capacitor	Capacitor,C357,2.2uF±10% 50V X5R 0603	1
1.1.54	Capacitor	Capacitor,C2,10uF±10% 35V X5R 0603	1
1.1.55	Capacitor	Capacitor,C4,10uF±10% 35V X5R 0603	1

Analyst: N Venkata Naga Aravind:
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Name	Category Description	Description	Quantity
1.1.56	Capacitor	Capacitor,C5,10uF±10% 35V X5R 0603	1
1.1.57	Capacitor	Capacitor,C10,10uF±10% 35V X5R 0603	1
1.1.58	Capacitor	Capacitor,C13,10uF±10% 35V X5R 0603	1
1.1.59	Capacitor	Capacitor,C15,10uF±10% 35V X5R 0603	1
1.1.60	Capacitor	Capacitor,C22,10uF±10% 35V X5R 0603	1
1.1.61	Capacitor	Capacitor,C29,10uF±10% 35V X5R 0603	1
1.1.62	Capacitor	Capacitor,C30,10uF±10% 35V X5R 0603	1
1.1.63	Capacitor	Capacitor,C44,10uF±10% 35V X5R 0603	1
1.1.64	Capacitor	Capacitor,C48,10uF±10% 35V X5R 0603	1
1.1.65	Capacitor	Capacitor,C74,10uF±10% 35V X5R 0603	1
1.1.66	Capacitor	Capacitor,C76,10uF±10% 35V X5R 0603	1
1.1.67	Capacitor	Capacitor,C78,10uF±10% 35V X5R 0603	1
1.1.68	Capacitor	Capacitor,C85,10uF±10% 35V X5R 0603	1
1.1.69	Capacitor	Capacitor,C92,10uF±10% 35V X5R 0603	1
1.1.70	Capacitor	Capacitor,C96,10uF±10% 35V X5R 0603	1

Analyst : N.Venkata Naga Aravind.
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Name	Category Description	Description	Quantity
1.1.71	Capacitor	Capacitor,C161,10uF±10% 35V X5R 0603	1
1.1.72	Capacitor	Capacitor,C358,10uF±10% 35V X5R 0603	1
1.1.73	Capacitor	Capacitor,C208,10uF±10% 35V X5R 0603	1
1.1.74	Capacitor	Capacitor,C14,0.1uF±10% 50V X7R 0402	1
1.1.75	Capacitor	Capacitor,C16,0.1uF±10% 50V X7R 0402	1
1.1.76	Capacitor	Capacitor,C18,0.1uF±10% 50V X7R 0402	1
1.1.77	Capacitor	Capacitor,C19,0.1uF±10% 50V X7R 0402	1
1.1.78	Capacitor	Capacitor,C20,0.1uF±10% 50V X7R 0402	1
1.1.79	Capacitor	Capacitor,C21,0.1uF±10% 50V X7R 0402	1
1.1.80	Capacitor	Capacitor,C23,0.1uF±10% 50V X7R 0402	1
1.1.81	Capacitor	Capacitor,C24,0.1uF±10% 50V X7R 0402	1
1.1.82	Capacitor	Capacitor,C26,0.1uF±10% 50V X7R 0402	1
1.1.83	Capacitor	Capacitor,C27,0.1uF±10% 50V X7R 0402	1
1.1.84	Capacitor	Capacitor,C31,0.1uF±10% 50V X7R 0402	1
1.1.85	Capacitor	Capacitor,C32,0.1uF±10% 50V X7R 0402	1

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Analyst : N Venkata Naga Aravind:
Compiled By:V.Jambulingam:
Approved By: R.Radhika:

Name	Category Description	Description	Quantity
1.1.86	Capacitor	CapacitorC33,0.1uF±10% 50V X7R 0402	1
1.1.87	Capacitor	CapacitorC34,0.1uF±10% 50V X7R 0402	1
1.1.88	Capacitor	CapacitorC35,0.1uF±10% 50V X7R 0402	1
1.1.89	Capacitor	CapacitorC36,0.1uF±10% 50V X7R 0402	1
1.1.90	Capacitor	Capacitor,C37,0.1uF±10% 50V X7R 0402	1
1.1.91	Capacitor	Capacitor,C38,0.1uF±10% 50V X7R 0402	1
1.1.92	Capacitor	Capacitor,C39,0.1uF±10% 50V X7R 0402	1
1.1.93	Capacitor	Capacitor,C40,0.1uF±10% 50V X7R 0402	1
1.1.94	Capacitor	Capacitor,C41,0.1uF±10% 50V X7R 0402	1
1.1.95	Capacitor	Capacitor,C42,0.1uF±10% 50V X7R 0402	1
1.1.96	Capacitor	Capacitor,C43,0.1uF±10% 50V X7R 0402	1
1.1.97	Capacitor	Capacitor,C45,0.1uF±10% 50V X7R 0402	1
1.1.98	Capacitor	Capacitor,C46,0.1uF±10% 50V X7R 0402	1
1.1.99	Capacitor	Capacitor,C49,0.1uF±10% 50V X7R 0402	1
1.1.100	Capacitor	Capacitor,C75,0.1uF±10% 50V X7R 0402	1

Analyst : N.Venkata Naga Aravind.
Compiled By:V.Jamuculingam:
Approved By: R.Radhika:

Name	Category Description	Description	Quantity
1.1.101	Diode, Low Frequency	Diode, Low Frequency,D1,Schottky Barrier Diode	1
1.1.102	Quartz Crystal	Quartz Crystal,X2,24MHz,SMD 3.2*2.5mm,20pF,±20PPM	1
1.1.103	Connector, General	Connector, General,J2,Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1
1.1.104	Connector, General	Connector, General,J6,Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1
1.1.105	Connector, General	Connector, General,J1,Conn, B2C,TB, Male, 1x4, 1.25mm, SMD	1
1.1.106	Connector, General	Connector, General,J5,Conn, B2C,TB, Male, 1x8,1.25mm SMD	1
1.1.107	Connector, General	Connector, General,J3,0.5mm FFC/FPC DUAL CONTACT SIDE CONNECTOR	1
1.1.108	Coil	Coil,L4,Power Inductor, 4.7uH,20%,2.0A,SMD	1
1.1.109	Coil	Coil,L23,Power inductor, 4.7uH,20%,2.0A,SMD	1
1.1.110	Coil	Coil,L1,Power inductor, 2.2uH,20%,1.5A,SMD	1
1.1.111	Coil	Coil,L5,Power inductor, 2.2uH,20%,1.5A,SMD	1
1.1.112	Coil	Coil,L6,Power inductor, 2.2uH,20%,1.5A,SMD	1
1.1.113	Coil	Coil,L7,Power inductor, 2.2uH,20%,1.5A,SMD	1
1.1.114	Coil	Coil,L24,Power inductor, 2.2uH,20%,1A,SMD	1

Analyst : N.Venkata Naga Aravind;
Compiled By :V Jambulingam;
Approved By :R.Radhika;

Name	Category	Description	Quantity
1.1.115	Micro, Linear	Micro, Linear,U2,Dual-channel ultra-low noise 256 micro-stepping low-voltage motor driver	1
1.1.116	Micro, Linear	Micro, Linear,U8,Dual ground sense operational amplifier	-
1.1.117	Micro, Linear	Micro, Linear,U14,300-mA, Low-Dropout Regulator	1
1.1.118	Micro, Linear	Micro, Linear,U15,300-mA, Low-Dropout Regulator	1
1.1.119	Micro, Linear	Micro, Linear,U18,300-mA, Low-Dropout Regulator	-
1.1.120	External	External,IMX335,Image Sensor,Diagonal 8.43mm(Type 1/2.8) CMOS Solid-state Image Sensor	1
2	Block	Block,MainBoard(CPU) CV28s23in	1
2.1	IA, Surface Mount Tech	IA, Surface Mount Tech	1
2.1.1	Resistor	Resistor,R155,10K?±1% 0402	1
2.1.2	Resistor	Resistor,R20, 54.9K?±1% 0402	1
2.1.3	Resistor	Resistor,R24,31.6K?±1% 0402	1
2.1.4	Resistor	Resistor,R154,20K?±1% 0402	1
2.1.5	Resistor	Resistor,R160,25.5K ±1% 0402	1
2.1.6	Resistor	Resistor,R161,100K?±1% 0402	1

Analyst : N.Venkata Naga Aravind:
Compiled By:V.Jambulingam:
Approved By: R Radhika:

Name	Category Description	Description	Quantity
2.1.7	Resistor	Resistor,R1352.24K?±1% 0402	1
2.1.8	Resistor	Resistor,R1339.37.4?±1% 0402	1
2.1.9	Resistor	Resistor,R202 470?±5% 0402	1
2.1.10	Resistor	Resistor,R203,470?±5% 0402	1
2.1.11	Resistor	Resistor,R206,470?±5% 0402	1
2.1.12	Resistor	Resistor,R210,470?±5% 0402	1
2.1.13	Resistor	Resistor,R16,100K?±1% 0402	1
2.1.14	Resistor	Resistor,R22,100K?±1% 0402	1
2.1.15	Resistor	Resistor,R151.330?±1% 0402	1
2.1.16	Resistor	Resistor,R333,330?±1% 0402	1
2.1.17	Resistor	Resistor,R150,33?±5% 0402	1
2.1.18	Resistor	Resistor,R332,33?±5% 0402	1
2.1.19	Resistor	Resistor,R131,560?±5% 0402	1
2.1.20	Resistor	Resistor,R134,560?±5% 0402	1
2.1.21	Resistor	Resistor,R135,560?±5% 0402	1

Analyst : N.Venkata Naga Aravind.
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Approved By: R.Radhika:

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Item	Category Description	Description	Quantity
2.1.22	Resistor	Resistor,R1372,10K?±1% 0402	1
2.1.23	Resistor	Resistor,R159,10K?±1% 0402	1
2.1.24	Resistor	Resistor,R157,10K?±1% 0402	1
2.1.25	Resistor	Resistor,R156,10K?±1% 0402	1
2.1.26	Resistor	Resistor,R152,10K?±1% 0402	1
2.1.27	Resistor	Resistor,R21,10K?±1% 0402	1
2.1.28	Resistor	Resistor,R352,10K?±1% 0402	1
2.1.29	Resistor	Resistor,R289,10K?±1% 0402	1
2.1.30	Resistor	Resistor,R265,10K?±1% 0402	1
2.1.31	Resistor	Resistor,R226,10K?±1% 0402	1
2.1.32	Resistor	Resistor,R214,10K?±1% 0402	1
2.1.33	Resistor	Resistor,R208,10K?±1% 0402	1
2.1.34	Resistor	Resistor,R207,10K?±1% 0402	1
2.1.35	Resistor	Resistor,R205,10K?±1% 0402	1
2.1.36	Resistor	Resistor,R197,10K?±1% 0402	1

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Analyst : N.Venkata Naga Aravind:
Compiled By:V Jamboulingam:
Aporoved Sy: R.Radheka:

Name	Category Description	Description	Quantity
2.1.37	Resistor	Resistor,R196,10K?±1% 0402	1
2.1.38	Resistor	Resistor,R28,10K?±1% 0402	1
2.1.39	Resistor	Resistor,R5,10K?±1% 0402	1
2.1.40	Resistor	Resistor,R32,4.7K?±5% 0402	1
2.1.41	Resistor	Resistor,R100,4.7K?±5% 0402	1
2.1.42	Resistor	Resistor,R192,4.7K?±5% 0402	1
2.1.43	Resistor	Resistor,R193,4.7K?±5% 0402	1
2.1.44	Resistor	Resistor,R194,4.7K?±5% 0402	1
2.1.45	Resistor	Resistor,R195,4.7K?±5% 0402	1
2.1.46	Resistor	Resistor,R25,0?±5% 0201	1
2.1.47	Resistor	Resistor,R31,0?±5% 0402	1
2.1.48	Resistor	Resistor,R33,0?±5% 0402	1
2.1.49	Resistor	Resistor,R136,0?±5% 0402	1
2.1.50	Resistor	Resistor,R158,0?±5% 0402	1
2.1.51	Resistor	Resistor,R165,0?±5% 0402	1

Analyst : N.Venkata Naga Aravind:
Compiled By:V.Jambulingam:
Approved By: R.Radhika:

Item	Category Description	Description	Quantity
2.1.52	Resistor	Resistor,R304,0?±5% 0402	1
2.1.53	Resistor	Resistor,R305,0?±5% 0402	1
2.1.54	Resistor	Resistor,R359,0?±5% 0402	1
2.1.55	Resistor	Resistor,R360,0?±5% 0402	1
2.1.56	Resistor	Resistor,R361,0?±5% 0402	1
2.1.57	Resistor	Resistor,R362,0?±5% 0402	1
2.1.58	Resistor	Resistor,R363,0?±5% 0402	1
2.1.59	Resistor	Resistor,R364,0?±5% 0402	1
2.1.60	Resistor	Resistor,R365,0?±5% 0402	1
2.1.61	Resistor	Resistor,R366,0?±5% 0402	1
2.1.62	Resistor	Resistor,R367,0?±5% 0402	1
2.1.63	Resistor	Resistor,R368,0?±5% 0402	1
2.1.64	Resistor	Resistor,R369,0?±5% 0402	1
2.1.65	Resistor	Resistor,R1322,0?±5% 0402	1
2.1.66	Resistor	Resistor,R1323,0?±5% 0402	1

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Analyst : N Venkata Naga Aravind
Compiled By: V.Jambulingam.
Approved By: R Radhika

Name	Category Description	Description	Quantity
2.1.67	Resistor	Resistor,R1325,0?±5% 0402	1
2.1.68	Resistor	Resistor,R1327,0?±5% 0402	1
2.1.69	Resistor	Resistor,R1344,0?±5% 0402	1
2.1.70	Resistor	Resistor,R1355,0?±5% 0402	1
2.1.71	Resistor	Resistor,R1363,0?±5% 0402	1
2.1.72	Resistor	Resistor,R1375,0?±5% 0402	1
2.1.73	Resistor	Resistor,R1377,0?±5% 0402	1
2.1.74	Resistor	Resistor,R6.1K?±5% 0402	1
2.1.75	Resistor	Resistor,R7.1K?±5% 0402	1
2.1.76	Resistor	Resistor,R13.1K?±5% 0402	1
2.1.77	Resistor	Resistor,R49.1K?±5% 0402	1
2.1.78	Resistor	Resistor,R101.1K?±5% 0402	1
2.1.79	Resistor	Resistor,R225.1K?±5% 0402	1
2.1.80	Resistor	Resistor,R259.1K?±5% 0402	1
2.1.81	Resistor	Resistor,R260.1K?±5% 0402	1

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Analyst : N Venkata Naga Aravind:
Compiled By:V.Jambulingam:
Approved By: A.Radhika:

Name	Category Description	Description	Quantity
2.1.82	Resistor	Resistor,R264,1K?±5% 0402	1
2.1.83	Resistor	Resistor,R10,2K?±1% 0402	1
2.1.84	Resistor	Resistor,R950,1K?±1% 0402	1
2.1.85	Resistor	Resistor,R951,1K?±1% 0402	1
2.1.86	Resistor	Resistor,R153,100K?±1% 0402	1
2.1.87	Resistor	Resistor,R156,100K?±1% 0402	1
2.1.88	Resistor	Resistor,R162,100K?±1% 0402	1
2.1.89	Resistor	Resistor,R163,100K?±1% 0402	1
2.1.90	Resistor	Resistor,R164,100K?±1% 0402	1
2.1.91	Resistor	Resistor,R218,100K?±1% 0402	1
2.1.92	Resistor	Resistor,R266,100K?±1% 0402	1
2.1.93	Resistor	Resistor,R161,100K?±1% 0402	1
2.1.94	Resistor	Resistor,R200,4.7K?±5% 0402	1
2.1.95	Resistor	Resistor,R201,4.7K?±5% 0402	1
2.1.96	Resistor	Resistor,R211,4.7K?±5% 0402	1

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Analyst : N.Venkata Naga Aravind:
Compiled By:V.Jambulingam:
Approved By: R.Radhika:

Name	Category Description	Description	Quantity
2.1.97	Resistor	Resistor,R243,4.7K?±5% 0402	1
2.1.98	Resistor	Resistor,R244,4.7K?±5% 0402	1
2.1.99	Resistor	Resistor,R327,4.7K?±5% 0402	1
2.1.100	Resistor	Resistor,R343,4.7K?±5% 0402	1
2.1.101	Resistor	Resistor,R355,4.7K?±5% 0402	1
2.1.102	Resistor	Resistor,R1338,4.7K?±5% 0402	1
2.1.103	Resistor	Resistor,R1343,4.7K?±5% 0402	1
2.1.104	Resistor	Resistor,R1345,4.7K?±5% 0402	1
2.1.105	Resistor	Resistor,R146,4.7K?±5% 0402	1
2.1.106	Resistor	Resistor,R147,4.7K?±5% 0402	1
2.1.107	Capacitor	Capacitor,C4,22pF±5% 50V NP0 0402	1
2.1.108	Capacitor	Capacitor,C191,0.01uF±10% 100V X7R 0402	1
2.1.109	Capacitor	Capacitor,C8,0.1uF±10% 50V,X5R,0201	1
2.1.110	Capacitor	Capacitor,C7,0.1uF+/-10% 50V X5R 0402	1
2.1.111	Capacitor	Capacitor,C19,1uF ±10% 50V X5R 0402	1

Analyst : N.Venkata Naga Aravind:
Compiled By:V.Jambulingam:
Approved By: R.Radhika:

Name	Category Description	Description	Quantity
2.1.112	Capacitor	Capacitor,C240,2.2uF±10% 25V X5R 0402	1
2.1.113	Capacitor	Capacitor,C43,4.7uF±10% 50V X5R 0603	1
2.1.114	Capacitor	Capacitor,C87,10uF±10% 50V X5R 0805	1
2.1.115	Capacitor	Capacitor,C124,22uF±10% 50V X5R 1206	1
2.1.116	Capacitor	Capacitor,C135,47uF±20% 10V X5R 1206	1
2.1.117	Capacitor	Capacitor,C269,0.33uF±10% 50V,X7R,0402	1
2.1.118	Capacitor	Capacitor,C241 2.2uF±10% 25V X5R 0402	1
2.1.119	Capacitor	Capacitor,C1652,0.0 uF±10% 100V X7R 0402	1
2.1.120	Capacitor	Capacitor,C140,0.22uF ±10% 50V X5R 0402	1
2.1.121	Capacitor	Capacitor,C220,0.22uF ±10% 50V X5R 0402	1
2.1.122	Capacitor	Capacitor,C229,0.22uF ±10% 50V X5R 0402	1
2.1.123	Capacitor	Capacitor,C125,22uF±20%50V X5R 0805	1
2.1.124	Capacitor	Capacitor,C127,22uF+20%50V X5R 0805	1
2.1.125	Capacitor	Capacitor,C1642,22uF±20%50V X5R 0805	1
2.1.126	Capacitor	Capacitor,C126,22uF±20%50V X5R 0805	1

Analyst : N.Venkata Naga Aravind:
Compiled By:V.Jambulingam
Approved By: R.Radhika:

Name	Category Description	Description	Quantity
2.1.127	Capacitor	Capacitor,C26,22uF±20%50V X5R 0805	1
2.1.128	Capacitor	Capacitor,C270,22uF±20%50V X5R 0805	1
2.1.129	Capacitor	Capacitor,C87,10uF±10% 25V X5R 0805	1
2.1.130	Capacitor	Capacitor,C110,10uF±10% 25V X5R 0805	1
2.1.131	Capacitor	Capacitor,C49,4.7uF±10% 50V X5R 0603	1
2.1.132	Capacitor	Capacitor,C56,4.7uF±10% 50V	1
2.1.133	Capacitor	Capacitor,C61,4.7uF±10% 50V	1
2.1.134	Capacitor	Capacitor,C197,4.7uF±10% 50V	1
2.1.135	Capacitor	Capacitor,C199,4.7uF±10% 50V	1
2.1.136	Capacitor	Capacitor,C201,4.7uF±10% 50V	1
2.1.137	Capacitor	Capacitor,C42,10uF±10% 25V X5R 0805	1
2.1.138	Capacitor	Capacitor,C209,10uF±10% 25V X5R 0805	1
2.1.139	Capacitor	Capacitor,C213,10uF±10% 25V X5R 0805	1
2.1.140	Capacitor	Capacitor,C218,10uF±10% 25V X5R 0805	1
2.1.141	Capacitor	Capacitor,C265,10uF±10% 25V X5R 0805	1

Analyst : N.Venkata Naga Aravind:
Compiled By:V.Jambulingam.
Approved By: R.Radhika:

Name	Category Description	Description	Quantity
2.1.142	Capacitor	Capacitor,C37,1uF ±10% 50V X5R 0402	1
2.1.143	Capacitor	Capacitor,C62,1uF ±10% 50V X5R 0402	1
2.1.144	Capacitor	Capacitor,C66,1uF ±10% 50V X5R 0402	1
2.1.145	Capacitor	Capacitor,C69,1uF ±10% 50V X5R 0402	1
2.1.146	Capacitor	Capacitor,C73,1uF ±10% 50V X5R 0402	1
2.1.147	Capacitor	Capacitor,C142,1uF ±10% 50V X5R 0402	1
2.1.148	Capacitor	Capacitor,C145,1uF ±10% 50V X5R 0402	1
2.1.149	Capacitor	Capacitor,C155,1uF ±10% 50V X5R 0402	1
2.1.150	Capacitor	Capacitor,C249,1uF ±10% 50V X5R 0402	1
2.1.151	Capacitor	Capacitor,C134,0.1uF ±10% 50V X5R 0402	1
2.1.152	Capacitor	Capacitor,C141,0.1uF ±10% 50V X5R 0402	1
2.1.153	Capacitor	Capacitor,C143,0.1uF ±10% 50V X5R 0402	1
2.1.154	Capacitor	Capacitor,C144,0.1uF ±10% 50V X5R 0402	1
2.1.155	Capacitor	Capacitor,C157,0.1uF ±10% 50V X5R 0402	1
2.1.156	Capacitor	Capacitor,C160,0.1uF ±10% 50V X5R 0402	1

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Analyst : N.Venkata Naga Aravind
Compiled By:V.Jambulingam;
Approved By: R.Radhika.

Name	Category Description	Description	Quantity
2.1.157	Capacitor	Capacitor,C162,0.1uF ±10% 50V X5R 0402	1
2.1.158	Capacitor	Capacitor,C181,0.1uF ±10% 50V X5R 0402	1
2.1.159	Capacitor	Capacitor,C183,0.1uF ±10% 50V X5R 0402	1
2.1.160	Capacitor	Capacitor,C185,0.1uF ±10% 50V X5R 0402	1
2.1.161	Capacitor	Capacitor,C187,0.1uF ±10% 50V X5R 0402	1
2.1.162	Capacitor	Capacitor,C189,0.1uF ±10% 50V X5R 0402	1
2.1.163	Capacitor	Capacitor,C195,0.1uF ±10% 50V X5R 0402	1
2.1.164	Capacitor	Capacitor,C198,0.1uF ±10% 50V X5R 0402	1
2.1.165	Capacitor	Capacitor,C206,0.1uF ±10% 50V X5R 0402	1
2.1.166	Capacitor	Capacitor,C210,0.1uF ±10% 50V X5R 0402	1
2.1.167	Capacitor	Capacitor,C211,0.1uF ±10% 50V X5R 0402	1
2.1.168	Capacitor	Capacitor,C212,0.1uF ±10% 50V X5R 0402	1
2.1.169	Capacitor	Capacitor,C215,0.1uF ±10% 50V X5R 0402	1
2.1.170	Capacitor	Capacitor,C219,0.1uF ±10% 50V X5R 0402	1
2.1.171	Capacitor	Capacitor,C225,0.1uF ±10% 50V X5R 0402	1

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Analyst : N.Venkata Naga Aravind;
Compiled By:V.Jambulingam;
Approved by R.Radhika;

Name	Category Description	Description	Quantity
2.1.172	Capacitor	Capacitor,C228,0.1uF ±10% 50V X5R 0402	1
2.1.173	Capacitor	Capacitor,C232,0.1uF ±10% 50V X5R 0402	1
2.1.174	Capacitor	Capacitor,C235,0.1uF ±10% 50V X5R 0402	1
2.1.175	Capacitor	Capacitor,C237,0.1uF ±10% 50V X5R 0402	1
2.1.176	Capacitor	Capacitor,C239,0.1uF ±10% 50V X5R 0402	1
2.1.177	Capacitor	Capacitor,C260,0.1uF ±10% 50V X5R 0402	1
2.1.178	Capacitor	Capacitor,C263,0.1uF ±10% 50V X5R 0402	1
2.1.179	Capacitor	Capacitor,C267,0.1uF ±10% 50V X5R 0402	1
2.1.180	Capacitor	Capacitor,C268,0.1uF ±10% 50V X5R 0402	1
2.1.181	Capacitor	Capacitor,C334,0.1uF ±10% 50V X5R 0402	1
2.1.182	Capacitor	Capacitor,C847,0.1uF ±10% 50V X5R 0402	1
2.1.183	Capacitor	Capacitor,C1631,0.1uF ±10% 50V X5R 0402	1
2.1.184	Capacitor	Capacitor,C85,0.1uF ±10% 50V X5R 0402	1
2.1.185	Capacitor	Capacitor,C271,0.1uF ±10% 50V X5R 0402	1
2.1.186	Capacitor	Capacitor,C300,0.1uF ±10% 50V X5R 0402	1

Analyst : N.Venkata Naga Aravind:
Compiled By:V.Jambulingam.
Approved By: R.Radhika:

Name	Category Description	Description	Quantity
2.1.187	Capacitor	Capacitor,C88,0.1uF ±10% 50V X5R 0201	1
2.1.188	Capacitor	Capacitor,C89,0.1uF ±10% 50V X5R0201	1
2.1.189	Capacitor	Capacitor,C111,0.1uF ±10% 50V X5R 0201	1
2.1.190	Capacitor	Capacitor,C112,0.1uF ±10% 50V X5R 0201	1
2.1.191	Capacitor	Capacitor,C846,0.1uF ±10% 50V X5R 0201	1
2.1.192	Capacitor	Capacitor,C20,0.1uF ±10% 50V X5R 0201	1
2.1.193	Capacitor	Capacitor,C21,0.1uF ±10% 50V X5R 0201	1
2.1.194	Capacitor	Capacitor,C22,0.1uF ±10% 50V X5R 0201	1
2.1.195	Capacitor	Capacitor,C23,0.1uF ±10% 50V X5R 0201	1
2.1.196	Capacitor	Capacitor,C24,0.1uF ±10% 50V X5R 0201	1
2.1.197	Capacitor	Capacitor,C25,0.1uF ±10% 50V X5R 0201	1
2.1.198	Capacitor	Capacitor,C26,0.1uF ±10% 50V X5R 0201	1
2.1.199	Capacitor	Capacitor,C27,0.1uF ±10% 50V X5R 0201	1
2.1.200	Capacitor	Capacitor,C29,0.1uF ±10% 50V X5R 0201	1
2.1.201	Capacitor	Capacitor,C30,0.1uF±10%,50V,X5R,0201	1

Analyst : N.Venkata Naga Aravind:
Compiled By:V Jambulingam:
Approved By: H.Radhika.

Name	Category Description	Description	Quantity
2.1.202	Capacitor	Capacitor,C31,0.1uF±10%,50V,X5R,0201	1
2.1.203	Capacitor	Capacitor,C32,0.1uF±10%,50V,X5R,0201	1
2.1.204	Capacitor	Capacitor,C33,0.1uF±10%,50V,X5R,0201	1
2.1.205	Capacitor	Capacitor,C34,0.1uF±10%,50V,X5R,0201	1
2.1.206	Capacitor	Capacitor,C35,0.1uF±10%,50V,X5R,0201	1
2.1.207	Capacitor	Capacitor,C36,0.1uF±10%,50V,X5R,0201	1
2.1.208	Capacitor	Capacitor,C37,0.1uF±10%,50V,X5R,0201	1
2.1.209	Capacitor	Capacitor,C38,0.1uF±10%,50V,X5R,0201	1
2.1.210	Capacitor	Capacitor,C39,0.1uF±10%,50V,X5R,0201	1
2.1.211	Capacitor	Capacitor,C40,0.1uF±10%,50V,X5R,0201	1
2.1.212	Capacitor	Capacitor,C41,0.1uF±10%,50V,X5R,0201	1
2.1.213	Capacitor	Capacitor,C44,0.1uF±10%,50V,X5R,0201	1
2.1.214	Capacitor	Capacitor,C45,0.1uF±10%,50V,X5R,0201	1
2.1.215	Capacitor	Capacitor,C46,0.1uF±10%,50V,X5R,0201	1
2.1.216	Capacitor	Capacitor,C47,0.1uF±10%,50V,X5R,0201	1

Analyst : N.Venkata Naga Aravind:
Compiled By:V.Jambulingam:
Approved By: R.Radhika:

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Name	Category Description	Description	Quantity
2.1.217	Capacitor	Capacitor,C48,0.1uF±10%,50V,X5R,0201	1
2.1.218	Capacitor	Capacitor,C50,0.1uF±10%,50V,X5R,0201	1
2.1.219	Capacitor	Capacitor,C51,0.1uF±10%,50V,X5R,0201	1
2.1.220	Capacitor	Capacitor,C52,0.1uF±10%,50V,X5R,0201	1
2.1.221	Capacitor	Capacitor,C52,0.1uF±10%,50V,X5R,0201	1
2.1.222	Capacitor	Capacitor,C54,0.1uF±10%,50V,X5R,0201	1
2.1.223	Capacitor	Capacitor,C55,0.1uF±10%,50V,X5R,0201	1
2.1.224	Diode, Low Frequency	Diode, Low Frequency,D7,TVS,Bi 15V,1500W,SMC	1
2.1.225	Diode, High Frequency	Diode, High Frequency,D6,3.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER	1
2.1.226	Diode, Low Frequency	Diode, Low Frequency,D111,Thyristors Solid Protection Device Bidirectional transient voltage suppressors	1
2.1.227	Diode, Low Frequency	Diode, Low Frequency,D112,Thyristors Solid Protection Device Bidirectional transient voltage suppressors	1
2.1.228	Diode, Low Frequency	Diode, Low Frequency,D10,High Property Device for Surge & ESD	1
2.1.229	Diode, Low Frequency	Diode, Low Frequency,D11,High Property Device for Surge & ESD	1

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Approved By :R.Karthika;

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Name	Category Description	Description	Quantity
2.1.230	Diode, High Frequency	Diode, High Frequency,D9,Schottky Barrier Diode	1
2.1.231	Quartz Crystal	Quartz Crystal,X1,24MHz,SMD 3.2*2.5mm,20pF,±20PPM	1
2.1.232	Quartz Crystal	Quartz Crystal,X2 32.768KHz,12.5pF,±20PPM 3.2*1.5, SMD	1
2.1.233	Connector, General	Connector, General,J2,Conn, B2C TB, Male, 1x3, 1.25mm, SMD	1
2.1.234	Connector, General	Connector, General,J6,Conn, B2C,TB, Male 1x5 1.25mm, SMD	1
2.1.235	Connector, General	Connector, General,J13 Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1
2.1.236	Connector, General	Connector, General,J29 Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1
2.1.237	Connector, General	Connector, General,J1,Conn B2C,TB, Male, 1x4, 1.25mm, SMD	1
2.1.238	Connector, General	Connector, General,J12,Conn, B2C,TB, Male, 1x4,1.25mm, SMD	1
2.1.239	Connector, General	Connector, General,J8,Conn, B2C, Male, 1x2, 1.25mm, ST, SMD	1
2.1.240	Connector, General	Connector, General,J10,Conn, B2C, Male, 1x2, 1.25mm, ST, SMD	1
2.1.241	Connector, General	Connector, General,J3,Conn, B2C, Male, 1x10, 1.25mm, ST, SMD	1
2.1.242	Connector, General	Connector, General,J7,Conn, B2C, Male, 1x12, 1.25mm, ST, SMD	1

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Approved By: R.Radhika;

Name	Category Description	Description	Quantity
2.1.243	Connector, General	Connectnr, General,J5.0 5mm FFC/FPC DUAL CONTACT SIDE CONNECTOR	1
2.1.244	Micro, Linear	Micro, Linear,U18,DIFFERENTIAL BUS TRANSCEIVERS	1
2.1.245	Micro, Linear	Micro, Linear,U61, 1A high-efficiency synchronous step-down converter	1
2.1.246	Micro, Linear	Micro, Linear,U60,300-mA, Low-Dropout Regulator	1
2.1.247	Micro, Linear	Micro, Linear,U21,2A high-efficiency synchronous step-down converter	1
2.1.248	Micro, Linear	Micro, Linear,U50,2A high-efficiency synchronous step-down converter	1
2.1.249	Micro, Linear	Micro, Linear,U51,2A high-efficiency synchronous step-down converter	1
2.1.250	Micro, Linear	Micro, Linear,U20,2A synchronous step-down converter	1
2.1.251	Micro, Linear	Micro, Linear,U9, 2-Bit, 2-Supply, Bus Transceiver with Configurable Level-ShiftingTranslation and 3-State Outputs and	1
2.1.252	Micro, Linear	Micro, Linear,U34,microprocessor (?P) supervisorycircuits	1
2.1.253	Micro, Linear	Micro, Linear,U19,2A synchronous step-down converter	1
2.1.254	Micro, Digital	Micro, Digital,IC,SERIAL NAND, 2Gb,WSON8	1

Analyst : N.Venkata Naga Aravind.
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Approved By. R.Radhika.

Item	Category Description	Description	Quantity
2.1.255	Micro, Mol EEPROM	Micro, Mol EEPROM,U15,IC,MEM,4Gb,1200MHz, ODdt4,BGA96	1
1.1.256	External	External,Digital,U1,IC, CV28S66M, Ambarella vision processor,VFBGA-288_0.65_11*12mm	1
1.1.257	External	External,U25,300-mA, Low-Dropout Regulator	1
1.1.258	Micro, Linear	Micro, Linear,U54,10/100Mbps single-port Physical Layer transceiver	1

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Annexure- II

FAILURE RATE REPORT

(Temperature 25 ℃)

MIL- HDBK- 217F FAILURE RATE REPORT

Name: SC-IND22XP-I(ZH(S)
Failure Rate. 7.2192492
MTBF: 1385 6.56

Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
1	Block	Block,ImageSensor IMX335	1	2.1817842	2.1817842	30.22178%
1 1	IA, Surface Mount Tech	IA, Surface Mount Tech	1	2 1817842	2 1817842	100%
1 1.1	Resistor	Resistor,R1,4.99K?±1 % 0402	1	0.0043759723	0 0043759723	0 20056853%
	Resistor	Resistor,R2,4.99K?±1 % 0402	1	0.0043759723	0 0043759723	0.20056853%
1.1.3	Resistor	Resistor,R71,10K?±5 % 0402	1	0.0042819576	0 0042819576	0.19625945%
1.1.4	Resistor	Resistor,R73,10K?±5 % 0402	1	0 0042819576	0.0042819576	0.19625945%
1.1 5	Resistor	Resistor,R75,10K?±5 % 0402	1	0.0042819576	0.0042819576	0.19625945%
1.1 6	Resistor	Resistor,R188,10K?±5 % 0402	1	0.0043635899	0.0043635899	0.20000099%
1.1 7	Resistor	Resistor,R191,10K?±5 % 0402	1	0.0043635899	0.0043635899	0.20000099%
1.1.8	Resistor	Resistor,R197,10K?±5 % 0402	1	0.0043635899	0 0043635899	0.20000099%

Analyst : N.Venkata Nagu Aravind:
Compiled By:V.Jambulingam
Approved By : R.Radhika.

Name	Category Description	Description	Quantity	Failure Rate	Not-failure Rate	Percent Contribution
1.1.9	Resistor	Resistor,R202,10K?±5 % 0402	1	0.0043635899	0.0043635899	0.20000099%
1.1.10	Resistor	Resistor,R201,10K?±5 % 0402	1	0.0043635899	0.0043635899	0.20000099%
1.1.11	Resistor	Resistor,RT19,4.7K?± 5% 0402	1	0.0043329778	0.0043329778	0.19859791%
1.1.12	Resistor	Resistor,R303,2K?±1 % 0402	1	0.0047075553	0.0047075553	0.21576631%
1.1.13	Resistor	Resistor,R305,2K?±1 % 0402	1	0.0047075553	0.0047075553	0.21576631%
1.1.14	Resistor	Resistor,RT21,1K?±1 % 0402	1	0.0043422151	0.0043422151	0.19902129%
1.1.15	Resistor	Resistor,RT23,1K?±1 % 0402	1	0.0043422151	0.0043422151	0.19902129%
1.1.16	Resistor	Resistor,RT15,1K?±1 % 0402	1	0.0045319516	0.0045319516	0.20771769%
1.1.17	Resistor	Resistor,RT16,1K?±1 % 0402	1	0.0045319516	0.0045319516	0.20771769%
1.1.18	Resistor	Resistor,R1,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
1.1.19	Resistor	Resistor,R413,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
1.1.20	Resistor	Resistor,R420,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%

Analyst : N.Venkata Naga Aravind:
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Approved By . R Rachika:

Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
1.1.21	Resistor	Resistor,R421,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
1.1.22	Resistor	Resistor,R422,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
1.1.23	Resistor	Resistor,R423,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
1.1.24	Resistor	Resistor,R424,0?±5% 0402	1	0.0043265768	0.0043265768	0.19830453%
1.1.25	Resistor	Resistor,R425,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
1.1.26	Resistor	Resistor,R194,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
1.1.27	Resistor	Resistor,R72,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
1.1.28	Resistor	Resistor,RT17,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
1.1.29	Resistor	Resistor,RT15,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
1.1.30	Resistor	Resistor,FB1,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
1.1.31	Resistor	Resistor,FB2,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
1.1.32	Resistor	Resistor,FB3,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%

Analyst : N.Venkata Naga Aravind:
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Approved By : R.Radhika:

Name	Category Description	Description	Quantity	Failure Rate	Nx Failure Rate	Percent Contribution
1.1.33	Resistor	Resistor,FB4,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
1.1.34	Resistor	Resistor,BL1,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
1.1.35	Resistor	Resistor,R2,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
1.1.36	Resistor	Resistor,R3,0?±5% 0402	1	0.0043265768	0.0043265768	0.19830453%
1.1.37	Resistor	Resistor,R210,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
	Resistor	Resistor,R211,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
	Resistor	Resistor,R212,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
	Resistor	Resistor,R213,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
1.1.41	Resistor	Resistor,R214,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
1.1.42	Resistor	Resistor,R215,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
1.1.43	Resistor	Resistor,R216,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
1.1.44	Resistor	Resistor,R219,0?±5% 0402	1	0.004280752	0.004280752	0.1962042%
1.1.45	Capacitor	Capacitor,C65,22pF±5 % 50V NP0 0402	1	0.0037759906	0.0037759906	0.17306894%

Analyst : N.Venkata Naga Aravind.
Compiled By:V Jambulingam:
Approved By : A.Radhika:

Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
1.1.46	Capacitor	Capacitor,C66,22pF±5 % 50V NP0 0402	1	0.0037759906	0.0037759906	0.17306894%
1.1.47	Capacitor	Capacitor,C72,1000p F±10% 50V X7R 0402	1	0.0053177634	0.0053177634	0.24373463%
1.1.48	Capacitor	Capacitor,C25,0.22uF ±10% 50V X7R 0402	1	0.0086502954	0.0086502954	0.39647866%
1.1.49	Capacitor	Capacitor,C1,1uF±10 % 50V X5R 0402	1	0.0099131782	0.0099131782	0.45436108%
1.1.50	Capacitor	Capacitor,C29,1uF±10 % 50V X5R 0402	1	0.0099131782	0.0099131782	0.45436108%
1.1.51	Capacitor	Capacitor,C350,2.2uF ±10% 50V X5R 0603	1	0.010642187	0.010642187	0.48777449%
1.1.52	Capacitor	Capacitor,C352,2.2uF ±10% 50V X5R 0603	1	0.010642187	0.010642187	0.48777449%
1.1.53	Capacitor	Capacitor,C357,2.2uF ±10% 50V X5R 0603	1	0.010642187	0.010642187	0.48777449%
1.1.54	Capacitor	Capacitor,C2,10uF±10 % 35V X5R 0603	1	0.012226926	0.012226926	0.56040949%
1.1.55	Capacitor	Capacitor,C4,10uF±10 % 35V X5R 0603	1	0.012344057	0.012344057	0.56577808%
1.1.56	Capacitor	Capacitor,C5,10uF±10 % 35V X5R 0603	1	0.012344057	0.012344057	0.56577808%
1.1.57	Capacitor	Capacitor,C10,10uF±1 0% 35V X5R 0603	1	0.012187333	0.012187333	0.55859482%
1.1.58	Capacitor	Capacitor,C13,10uF±1 0% 35V X5R 0603	1	0.012344057	0.012344057	0.56577808%

Analyst : N.Venkata Naga Aravind
Compiled By:V.Jambulingam
Approved By : R.Radhika.

Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
1.1.59	Capacitor	Capacitor,C15,10uF±10% 35V X5R 0603	1	0.012181934	0.012181934	0.55834734%
1.1.60	Capacitor	Capacitor,C22,10uF±10% 35V X5R 0603	1	0.012181934	0.012181934	0.55834734%
1.1.61	Capacitor	Capacitor,C29,10uF±10% 35V X5R 0603	1	0.012181934	0.012181934	0.55834734%
1.1.62	Capacitor	Capacitor,C30,10uF±10% 35V X5R 0603	1	0.012215172	0.012215172	0.55987078%
1.1.63	Capacitor	Capacitor,C44,10uF±10% 35V X5R 0603	1	0.012211738	0.012211738	0.55971342%
1.1.64	Capacitor	Capacitor,C48,10uF±10% 35V X5R 0603	1	0.012211738	0.012211738	0.55971342%
1.1.65	Capacitor	Capacitor,C74,10uF±10% 35V X5R 0603	1	0.012226925	0.012226925	0.56040949%
1.1.66	Capacitor	Capacitor,C76,10uF±10% 35V X5R 0603	1	0.012181934	0.012181934	0.55834734%
1.1.67	Capacitor	Capacitor,C78,10uF±10% 35V X5R 0603	1	0.012226925	0.012226925	0.56040949%
1.1.68	Capacitor	Capacitor,C85,10uF±10% 35V X5R 0603	1	0.012226925	0.012226925	0.56040949%
1.1.69	Capacitor	Capacitor,C92,10uF±10% 35V X5R 0603	1	0.012344057	0.012344057	0.56577606%
1.1.70	Capacitor	Capacitor,C98,10uF±10% 35V X5R 0603	1	0.012211738	0.012211738	0.55971342%
1.1.71	Capacitor	Capacitor,C161,10uF±10% 35V X5R 0603	1	0.012187333	0.012187333	0.55859482%
1.1.72	Capacitor	Capacitor,C356,10uF±10% 35V X5R 0603	1	0.012344057	0.012344057	0.56577606%

Analyst : N.Venkata Naga Aravind.
Compiled By:V.Jambulingam.
Approved By : R.Radhika.

Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
1.1.73	Capacitor	Capacitor,C206,10uF± 10% 35V X5R 0603	1	0.012344057	0.012344057	0.565778085%
1.1.74	Capacitor	Capacitor,C14,0.1uF± 10% 50V X7R 0402	1	0.0080475379	0.0080475379	0.368851241%
1.1.75	Capacitor	Capacitor,C16,0.1uF± 10% 50V X7R 0402	1	0.0080475379	0.0080475379	0.368851241%
1.1.76	Capacitor	Capacitor,C18,0.1uF± 10% 50V X7R 0402	1	0.0080475379	0.0080475379	0.368851241%
1.1.77	Capacitor	Capacitor,C19,0.1uF± 10% 50V X7R 0402	1	0.0080542909	0.0080542909	0.369160771%
	Capacitor	Capacitor,C20,0.1uF± 10% 50V X7R 0402	1	0.0080475379	0.0080475379	0.368851241%
1.1.79	Capacitor	Capacitor,C21,0.1uF± 10% 50V X7R 0402	1	0.0080542909	0.0080542909	0.369160771%
1.1.80	Capacitor	Capacitor,C23,0.1uF± 10% 50V X7R 0402	1	0.0080475379	0.0080475379	0.368851241%
1.1.81	Capacitor	Capacitor,C24,0.1uF± 10% 50V X7R 0402	1	0.0080475379	0.0080475379	0.368851241%
1.1.82	Capacitor	Capacitor,C26,0.1uF± 10% 50V X7R 0402	1	0.0080475379	0.0080475379	0.368851241%
1.1.83	Capacitor	Capacitor,C27,0.1uF± 10% 50V X7R 0402	1	0.0080577331	0.0080577331	0.369031852%
1.1.84	Capacitor	Capacitor,C31,0.1uF± 10% 50V X7R 0402	1	0.0080542909	0.0080542909	0.369160771%

Analyst : N.Venkata Naga Aravind:
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Approved By : R.Radhika

Name	Category Description	Description	Quantity	Failure Rate	Non-failure Rate	Percent Contribution
1.1.86	Capacitor	Capacitor,C32,0.1uF± 10% 50V X7R 0402	1	0.0080542909	0.0080542909	0.36916077%
1.1.86	Capacitor	CapacitorC33,0.1uF±1 0% 50V X7R 0402	1	0.0080542909	0.0080542909	0.36916077%
1.1.87	Capacitor	CapacitorC34,0.1uF±1 0% 50V X7R 0402	1	0.0080542909	0.0080542909	0.36916077%
1.1.88	Capacitor	CapacitorC35,0.1uF±1 0% 50V X7R 0402	1	0.0080542909	0.0080542909	0.36916077%
1.1.89	Capacitor	CapacitorC36,0.1uF±1 0% 50V X7R 0402	1	0.0080487607	0.0080487607	0.36890727%
	Capacitor	Capacitor,C37,0.1uF± 10% 50V X7R 0402	1	0.0080487607	0.0080487607	0.36890727%
1.1.91	Capacitor	Capacitor,C38,0.1uF± 10% 50V X7R 0402	1	0.0080475379	0.0080475379	0.36885124%
1.1.92	Capacitor	Capacitor,C39,0.1uF± 10% 50V X7R 0402	1	0.0080475379	0.0080475379	0.36885124%
1.1.93	Capacitor	Capacitor,C40,0.1uF± 10% 50V X7R 0402	1	0.0080542909	0.0080542909	0.36916077%
1.1.94	Capacitor	Capacitor,C41,0.1uF± 10% 50V X7R 0402	1	0.0080475379	0.0080475379	0.36885124%
1.1.95	Capacitor	Capacitor,C42,0.1uF± 10% 50V X7R 0402	1	0.0080577331	0.0080577331	0.36931852%
1.1.96	Capacitor	Capacitor,C43,0.1uF± 10% 50V X7R 0402	1	0.0080475379	0.0080475379	0.36885124%
1.1.97	Capacitor	Capacitor,C45,0.1uF± 10% 50V X7R 0402	1	0.0080542909	0.0080542909	0.36916077%

Analyst : N.Venkata Naga Aravind
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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
1.1.98	Capacitor	Capacitor,C45,0.1uF± 10% 50V X7R 0402	1	0.0080475379	0.0080475379	0.36885124%
1.1.99	Capacitor	Capacitor,C49,0.1uF± 10% 50V X7R 0402	1	0.0080542909	0.0080542909	0.36916077%
1.1.100	Capacitor	Capacitor,C75,0.1uF± 10% 50V X7R 0402	1	0.0080577331	0.0080577331	0.36931852%
1.1.101	Diode, Low Frequency	Diode, Low Frequency D1,Schottky Barrier Diode	1	0.010264653	0.010264653	0.47047058%
1.1.102	Quartz Crystal	Quartz Crystal X2,24MHz,SMD 3.2*2.5mm,20pF,±20PPM	1	0.08100526	0.08100526	3.7127991%
1.1.103	Connector, General	Connector, General,J2,Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1	0.18440087	0.18440087	8.4518385%
1.1.104	Connector, General	Connector, General,J6,Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1	0.1840204	0.1840204	8.4343996%
1.1.105	Connector, General	Connector, General,J1,Conn, B2C,TB, Male, 1x4, 1.25mm, SMD	1	0.18440087	0.18440087	8.4518385%
1.1.106	Connector, General	Connector, General,J5,Conn, B2C,TB, Male, 1x8,1.25mm, SMD	1	0.18440087	0.18440087	8.4518385%

Analyst : N.Venkata Naga Aravind:
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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
1.1.107	Connector, General	Connector, General,0.5mm FFC/FPC DUAL CONTACT SIDE CONNECTOR	1	0.18440087	0.18440087	8.45183855%
1.1.108	Coil	Coil,L4,Power inductor, 4.7uH,20%,2.0A,SMD	1	0.00020965253	0.00020965253	0.0096092243%
1.1.109	Coil	Coil,L23,Power Inductor, 4.7uH,20%,2.0A,SMD	1	0.00019825528	0.00019825528	0.0090868417%
1.1.110	Coil	Coil,L1,Power inductor, 2.2uH,20%,1.5A,SMD	1	0.00020965253	0.00020965253	0.0096092243%
1.1.111	Coil	Coil,L5,Power inductor, 2.2uH,20%,1.5A,SMD	1	0.00020965253	0.00020965253	0.0096092243%
	Coil	Coil,L6,Power inductor, 2.2uH,20%,1.5A,SMD	1	0.00020965253	0.00020965253	0.0096092243%
1.1.113	Coil	Coil,L7,Power inductor, 2.2uH,20%,1.5A,SMD	1	0.00020965253	0.00020965253	0.0096092243%
1.1.114	Coil	Coil,L24,Power inductor, 2.2uH,20%,1A,SMD	1	0.00020965253	0.00020965253	0.0096092243%
1.1.115_	Micro, Linear	Micro, Linear,U2,Dual-channel ultra-low noise 256 micro-stepping low-voltage motor driver	1	0.028559163	0.028559163	1.308982%

Analyst : N.Venkata Naga Aravind:
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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
1.1.116	Micro. Linear	Micro, Linear,U8,Dual ground sense operational amplifier	1	0.010204428	0.010204428	0.46771023%
1.1.117	Micro. Linear	Micro, Linear,U14,300-mA, Low-Dropout Regulator	1	0.0080983331	0.0080983331	0.3711794%
1.1.118	Micro. Linear	Micro, Linear,U15,300-mA, Low-Dropout Regulator	1	0.0080983331	0.0080983331	0.3711794%
1.1.119	Micro. Linear	Micro, Linear,U18,300-mA, Low-Dropout Regulator	1	0.0080953331	0.0080953331	0.3711794%
1.1.120	External	External,IMX335,Image Sensor,Diagonal 6.43mm(Type 1/2.8) CMOS Solid-state Image Sensor	1	0.16	0.16	7.3334475%
2	Block	Block,MainBoard(CPU) CV28s33m	1	5.0374651	5.0374651	69.778244%
2.1	IA, Surface Mount Tech	IA, Surface Mount Tech	1	5.0374651	5.0374651	100%
2.1.1	Resistor	Resistor,R155,10K?±1% 0402	1	0.004283465	0.004283465	0.08503215%
2.1.2	Resistor	Resistor,R20, 54.9K?±1% 0402	1	0.0043056109	0.0043056109	0.08547177%

Analyst : N.Venkata Naga Aravind:
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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.3	Resistor	Resistor,R24,31.6K?±1% 0402	1	0.0042963005	0.0042963005	0.085286953%
2.1.4	Resistor	Resistor,R154,20K?±1% 0402	1	0.0042861798	0.0042861798	0.085086049%
2.1.5	Resistor	Resistor,R160,25.5K ±1% 0402	1	0.0042808182	0.0042808182	0.084979609%
2.1.6	Resistor	Resistor,R161,100K?±1% 0402	1	0.0042810231	0.0042810231	0.084983677%
2.1.7	Resistor	Resistor,R352,24K?±1% 0402	1	0.0042882925	0.0042882925	0.085127987%
	Resistor	Resistor,R339,37.4? ±1% 0402	1	0.0048148106	0.0048148106	0.095580027%
	Resistor	Resistor,R202,470?±5% 0402	1	0.0042867083	0.0042867083	0.085096536%
	Resistor	Resistor,R203,470?±5% 0402	1	0.0042867083	0.0042867083	0.085096536%
2.1.11	Resistor	Resistor,R206,470?±5% 0402	1	0.0055058366	0.0055058366	0.109297767%
2.1.12	Resistor	Resistor,R210,470?±5% 0402	1	0.0055058366	0.0055058366	0.109297767%
2.1.13	Resistor	Resistor,R10,100K?±1% 0402	1	0.004280779	0.004280779	0.084978834%
2.1.14	Resistor	Resistor,R22,100K?±1% 0402	1	0.004280779	0.004280779	0.084978834%

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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.15	Resistor	Resistor,R151,330?±1 % 0402	1	0.004280752	0.004280752	0.084978297%
2.1.16	Resistor	Resistor,R333,330?±1 % 0402	1	0.004280752	0.004280752	0.084978297%
2.1.17	Resistor	Resistor,R150,33?±5 % 0402	1	0.004280752	0.004280752	0.084978297%
2.1.18	Resistor	Resistor,R332,33?±5 % 0402	1	0.004280752	0.004280752	0.084978297%
2.1.19	Resistor	Resistor,R131,560?±5 % 0402	1	0.004446622	0.004446622	0.088271022%
2.1.20	Resistor	Resistor,R134,560?±5 % 0402	1	0.004446622	0.004446622	0.088271022%
2.1.21	Resistor	Resistor,R135,560?±5 % 0402	1	0.004446622	0.004446622	0.088271022%
2.1.22	Resistor	Resistor,R1372,10K?±1% 0402	1	0.004330005	0.004330005	0.085956503%
2.1.23	Resistor	Resistor,R159,10K?±1 % 0402	1	0.004283465	0.004283465	0.085032151%
2.1.24	Resistor	Resistor,R157,10K?±1 % 0402	1	0.004283465	0.004283465	0.085032151%
2.1.25	Resistor	Resistor,R155,10K?±1 % 0402	1	0.004283465	0.004283465	0.085032151%
2.1.26	Resistor	Resistor,R152,10K?±1 % 0402	1	0.0043250546	0.0043250546	0.085857756%
2.1.27	Resistor	Resistor,R21,10K?±1 % 0402	1	0.0043250546	0.0043250546	0.085857756%

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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.28	Resistor	Resistor,R352,10K?±1 % 0402	1	0.0043052323	0.0043052323	0.085484261%
2.1.29	Resistor	Resistor,R289,10K?±1 % 0402	1	0.0043052323	0.0043052323	0.085484261%
2.1.30	Resistor	Resistor,R265,10K?±1 % 0402	1	0.0042844452	0.0042844452	0.085051611%
2.1.31	Resistor	Resistor,R225,10K?±1 % 0402	1	0.0042844452	0.0042844452	0.085051611%
2.1.32	Resistor	Resistor,R214,10K?±1 % 0402	1	0.0043635899	0.0043635899	0.086622273%
2.1.33	Resistor	Resistor,R208,10K?±1 % 0402	1	0.0044411472	0.0044411472	0.088162345%
2.1.34	Resistor	Resistor,R207,10K?±1 % 0402	1	0.0043635899	0.0043635899	0.086622273%
2.1.35	Resistor	Resistor,R205,10K?±1 % 0402	1	0.0044411472	0.0044411472	0.088162345%
2.1.36	Resistor	Resistor,R197,10K?±1 % 0402	1	0.00447331	0.00447331	0.088800681%
2.1.37	Resistor	Resistor,R196,10K?±1 % 0402	1	0.00447331	0.00447331	0.088800681%
2.1.38	Resistor	Resistor,R28,10K?±1 % 0402	1	0.0042844452	0.0042844452	0.085051611%
2.1.39	Resistor	Resistor,R6,10K?±1% 0402	1	0.0043635899	0.0043635899	0.086622273%
2.1.40	Resistor	Resistor,R32,4.7K?±5 % 0402	1	0.0043329778	0.0043329778	0.086015046%

Analyst : N.Venkata Naga Aravind
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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.41	Resistor	Resistor,R100,4.7K?±5% 0402	1	0.0043549966	0.0043549966	0.086452141%
2.1.42	Resistor	Resistor,R192,4.7K?±5% 0402	1	0.0043169931	0.0043169931	0.085697725%
2.1.43	Resistor	Resistor,R193,4.7K?±5% 0402	1	0.0043169931	0.0043169931	0.085697725%
2.1.44	Resistor	Resistor,R194,4.7K?±5% 0402	1	0.0043169931	0.0043169931	0.085697725%
2.1.45	Resistor	Resistor,R195,4.7K?±5% 0402	1	0.0043169931	0.0043169931	0.085697725%
2.1.46	Resistor	Resistor,R25.0?±5% 0201	1	0.004280752	0.004280752	0.084978297%
2.1.47	Resistor	Resistor,R31.0?±5% 0402	1	0.004280752	0.004280752	0.084978297%
2.1.48	Resistor	Resistor,R33.0?±5% 0402	1	0.004280752	0.004280752	0.084978297%
2.1.49	Resistor	Resistor,R136,0?±5% 0402	1	0.004280752	0.004280752	0.084978297%
2.1.50	Resistor	Resistor,R158,0?±5% 0402	1	0.004280752	0.004280752	0.084978297%
2.1.51	Resistor	Resistor,R165,0?±5% 0402	1	0.004280752	0.004280752	0.084978297%
2.1.52	Resistor	Resistor,R304,0?±5% 0402	1	0.004280752	0.004280752	0.084978297%
2.1.53	Resistor	Resistor,R305,0?±5% 0402	1	0.004280752	0.004280752	0.084978297%

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Name	Category Description	Description	Quantity	Failure Rate	NoFailure Rate	Percent Contribution
2.1.54	Resistor	Resistor,R359,0?±5% 0402	1	0.004280752	0.004280752	0.084978297%
2.1.55	Resistor	Resistor,R360,0?±5% 0402	1	0.004280752	0.004280752	0.084978297%
2.1.56	Resistor	Resistor,R361,0?±5% 0402	1	0.004280752	0.004280752	0.084978297%
2.1.57	Resistor	Resistor,R362,0?±5% 0402	1	0.004280752	0.004280752	0.084978297%
2.1.58	Resistor	Resistor,R363,0?±5% 0402	1	0.004280752	0.004280752	0.084978297%
2.1.59	Resistor	Resistor,R364,0?±5% 0402	1	0.004280752	0.004280752	0.084978297%
2.1.60	Resistor	Resistor,R365,0?±5% 0402	1	0.004280752	0.004280752	0.084978297%
	Resistor	Resistor,R366,0?±5% 0402	1	0.004280752	0.004280752	0.084978297%
2.1.62	Resistor	Resistor,R367,0?±5% 0402	1	0.004280752	0.004280752	0.084978297%
2.1.63	Resistor	Resistor,R368,0?±5% 0402	1	0.004280752	0.004280752	0.084978297%
2.1.64	Resistor	Resistor,R369,0?±5% 0402	1	0.004280752	0.004280752	0.084978297%
2.1.65	Resistor	Resistor,R1322,0?±5% 0402	1	0.004280752	0.004280752	0.084978297%
2.1.66	Resistor	Resistor,R1323,0?±5% 0402	1	0.004280752	0.004280752	0.084978297%

Analyst : N.Venkata Naga Aravind:
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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.67	Resistor	Resistor,R1325,0?±5 % 0402	1	0.004280752	0.004280752	0.0849782973%
2.1.68	Resistor	Resistor,R1327,0?±5 % 0402	1	0.004280752	0.004280752	0.0849782973%
2.1.69	Resistor	Resistor,R1344,0?±5 % 0402	1	0.004280752	0.004280752	0.0849782973%
2.1.70	Resistor	Resistor,R1355,0?±5 % 0402	1	0.004280752	0.004280752	0.0849782973%
2.1.71	Resistor	Resistor,R1363,0?±5 % 0402	1	0.004280752	0.004280752	0.0849782973%
2.1.72	Resistor	Resistor,R1375,0?±5 % 0402	1	0.004280752	0.004280752	0.0849782973%
2.1.73	Resistor	Resistor,R1377,0?±5 % 0402	1	0.004280752	0.004280752	0.0849782973%
2.1.74	Resistor	Resistor,R6,1K?±5% 0402	1	0.0045319516	0.0045319516	0.0899640263%
2.1.75	Resistor	Resistor,R7,1K?±5% 0402	1	0.0045319516	0.0045319516	0.0899640263%
2.1.76	Resistor	Resistor,R10,1K?±5% 0402	1	0.0043728924	0.0043728924	0.0868074%
2.1.77	Resistor	Resistor,R49,1K?±5% 0402	1	0.0043728924	0.0043728924	0.0868074%
2.1.78	Resistor	Resistor,R10?,1K?±5 % 0402	1	0.0042964518	0.0042964518	0.0852899553%
2.1.79	Resistor	Resistor,R225,1K?±5 % 0402	1	0.0043728924	0.0043728924	0.0868074%

Analyst : N.Venkata Naga Aravind:
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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.80	Resistor	Resistor,R259,1K?±5 % 0402	1	0.0043726924	0.0043726924	0.0868074%
2.1.81	Resistor	Resistor,R260,1K?±5 % 0402	1	0.0042964518	0.0042964518	0.085289955%
2.1.82	Resistor	Resistor,R264,1K?±5 % 0402	1	0.0043726924	0.0043726924	0.0868074%
2.1.83	Resistor	Resistor,R10,2K?±1% 0402	1	0.0046335752	0.0046335752	0.091982283%
2.1.84	Resistor	Resistor,R950,1K?±1 % 0402	1	0.0043079606	0.0043079606	0.085513425%
2.1.85	Resistor	Resistor,R951,1K?±1 % 0402	1	0.0043079606	0.0043079606	0.085513425%
2.1.86	Resistor	Resistor,R153,100K?±1% 0402	1	0.0042889644	0.0042889644	0.085141324%
2.1.87	Resistor	Resistor,R158,100K?±1% 0402	1	0.0042889644	0.0042889644	0.085141324%
2.1.88	Resistor	Resistor,R162,100K?±1% 0402	1	0.0042889644	0.0042889644	0.085141324%
2.1.89	Resistor	Resistor,R163,100K?±1% 0402	1	0.0042818366	0.0042818366	0.084999883%
2.1.90	Resistor	Resistor,R164,100K?±1% 0402	1	0.0042889644	0.0042889644	0.085141324%
2.1.91	Resistor	Resistor,R216,100K?±1% 0402	1	0.0043852241	0.0043852241	0.087052196%
2.1.92	Resistor	Resistor,R256,100K?±1% 0402	1	0.0042889644	0.0042889644	0.085141324%
2.1.93	Resistor	Resistor,R161,100K?±1% 0402	1	0.0042810231	0.0042810231	0.084983677%

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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.94	Resistor	Resistor,R200,4.7K?±5% 0402	1	0.0043329778	0.0043329778	0.0960150468%
2.1.95	Resistor	Resistor,R201,4.7K?±5% 0402	1	0.0043329778	0.0043329778	0.0960150468%
2.1.96	Resistor	Resistor,R211,4.7K?±5% 0402	1	0.004457592	0.004457592	0.0884887958%
2.1.97	Resistor	Resistor,R243,4.7K?±5% 0402	1	0.004457592	0.004457592	0.0884887958%
2.1.98	Resistor	Resistor,R244,4.7K?±5% 0402	1	0.004457592	0.004457592	0.0884887958%
2.1.99	Resistor	Resistor,R327,4.7K?±5% 0402	1	0.004457592	0.004457592	0.0884887958%
2.1.100	Resistor	Resistor,R343,4.7K?±5% 0402	1	0.004457592	0.004457592	0.0884887958%
2.1.101	Resistor	Resistor,R356,4.7K?±5% 0402	1	0.0044263205	0.0044263205	0.0878668012%
2.1.102	Resistor	Resistor,R1336,4.7K?±5% 0402	1	0.004457592	0.004457592	0.0884887958%
2.1.103	Resistor	Resistor,R1343,4.7K?±5% 0402	1	0.004457592	0.004457592	0.0884887958%
2.1.104	Resistor	Resistor,R1345,4.7K?±5% 0402	1	0.0043329778	0.0043329778	0.0960150468%
2.1.105	Resistor	Resistor,R146,4.7K?±5% 0402	1	0.004457592	0.004457592	0.0884887958%
2.1.106	Resistor	Resistor,R147,4.7K?±5% 0402	1	0.004457592	0.004457592	0.0884887958%
2.1.107	Capacitor	Capacitor,C4,22pF±5% 50V NP0 0402	1	0.0037759906	0.0037759906	0.0749581468%

Analyst : N.Venkata Naga Aravind
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Approved By : R Radhika

Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.108	Capacitor	Capacitor,C191,0.01uF±10% 100V X7R 0402	1	0.006593192	0.006593192	0.13085313%
2.1.109	Capacitor	Capacitor,C5,0.1uF±10% 50V,X5R,0201	1	0.0080487607	0.0080487607	0.15977B%
2.1.110	Capacitor	Capacitor C7,0.1uF+/-10% 50V X5R 0402	1	0.0085620321	0.0085620321	0.18996707%
2.1.111	Capacitor	Capacitor,C19,1uF +10% 50V X5R 0402	1	0.010533601	0.010533601	0.20910519%
2.1.112	Capacitor	Capacitor,C240,2.2uF +10% 25V X5R 0402	1	0.010629654	0.010629654	0.21101196%
	Capacitor	Capacitor,C43,4.7uF± 10% 50V X5R 0603	1	0.011394667	0.011394667	0.22619843%
2.1.114	Capacitor	Capacitor,C87,10uF±10% 50V X5R 0805	1	0.01295916	0.01295916	0.25725558%
2.1.115	Capacitor	Capacitor,C124,22uF± 10% 50V X5R 1206	1	0.013092751	0.013092751	0.25990751%
2.1.116	Capacitor	Capacitor,C135,47uF± 20% 10V X5R 1206	1	0.016329098	0.016329098	0.3241531%
2.1.117	Capacitor	Capacitor,C269,0.33uF±10% 50V,X7R,0402	1	0.0089717908	0.0089717908	0.1781013%
2.1.118	Capacitor	Capacitor,C241,2.2uF ±10% 25V X5R 0402	1	0.010633483	0.010633483	0.21108797%
2.1.119	Capacitor	Capacitor,C1652,0.01uF±10% 100V X7R 0402	1	0.006544651	0.006544651	0.12991953%

Analyst : N.Venkata Naga Aravind:
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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.120	Capacitor	Capacitor,C140,0.22uF ±10% 50V X5R 0402	1	0.0086502954	0.0086502954	0.17171921%
2.1.121	Capacitor	Capacitor,C220,0.22uF ±10% 50V X5R 0402	1	0.0086502954	0.0086502954	0.17171921%
2.1.122	Capacitor	Capacitor,C229,0.22uF ±10% 50V X5R 0402	1	0.0086502954	0.0086502954	0.17171921%
2.1.123	Capacitor	Capacitor,C125,22uF± 20%50V X5R 0805	1	0.013075551	0.013075551	0.2595881%
2.1.124	Capacitor	Capacitor,C127,22uF± 20%50V X5R 0805	1	0.013075551	0.013075551	0.2595881%
2.1.125	Capacitor	Capacitor,C1642,22uF ±20%50V X5R 0805	1	0.013076184	0.013076184	0.25957865%
2.1.126	Capacitor	Capacitor,C126,22uF± 20%50V X5R 0805	1	0.013135881	0.013135881	0.2607637%
2.1.127	Capacitor	Capacitor,C86,22uF±20%50V X5R 0805	1	0.013076184	0.013076184	0.25957865%
2.1.128	Capacitor	Capacitor,C270,22uF± 20%50V X5R 0805	1	0.013092751	0.013092751	0.25990751%
2.1.129	Capacitor	Capacitor,C87,10uF±10% 25V X5R 0805	1	0.012185899	0.012185899	0.24190538%
2.1.130	Capacitor	Capacitor,C110,10uF± 10% 25V X5R 0805	1	0.012236049	0.012236049	0.24290092%
2.1.131	Capacitor	Capacitor,C19,4.7uF± 10% 50V X5R 0603	1	0.011380251	0.011380251	0.22591224%

Analyst : N Venkata Naga Aravind:
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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.132	Capacitor	Capacitor,C66 4.7uF± 10% 50V	1	0.011398198	0.011398198	0.22594658%
2.1.133	Capacitor	Capacitor,C61 4.7uF± 10% 50V	1	0.011394667	0.011394667	0.22619643%
2.1.134	Capacitor	Capacitor,C197,4.7uF ±10% 50V	1	0.011394667	0.011394667	0.22619643%
2.1.135	Capacitor	Capacitor,C199,4.7uF ±10% 50V	1	0.011394667	0.011394667	0.22619643%
2.1.136	Capacitor	Capacitor,C201,4.7uF ±10% 50V	1	0.011394667	0.011394667	0.22619643%
2.1.137	Capacitor	Capacitor,C42,10uF-10% 25V X5R 0805	1	0.012165899	0.012165899	0.24190538%
2.1.138	Capacitor	Capacitor,C209,10uF+ 10% 25V X5R 0805	1	0.018415647	0.018415647	0.36557367%
2.1.139	Capacitor	Capacitor,C213,10uF± 10% 25V X5R 0805	1	0.018415647	0.018415647	0.36557367%
2.1.140	Capacitor	Capacitor,C218,10uF± 10% 25V X5R 0805	1	0.018415647	0.018415647	0.36557367%
2.1.141	Capacitor	Capacitor,C265,10uF± 10% 25V X5R 0805	1	0.012309351	0.012309351	0.24435005%
2.1.142	Capacitor	Capacitor,C57,1uF ±10% 50V X5R 0402	1	0.0099021392	0.0099021392	0.19656987%
2.1.143	Capacitor	Capacitor,C62,1uF ±10% 50V X5R 0402	1	0.0099131782	0.0099131782	0.19678903%
2.1.144	Capacitor	Capacitor,C65,1uF ±10% 50V X5R 0402	1	0.0099001881	0.0099001881	0.19653115%
2.1.145	Capacitor	Capacitor,C60,1uF ±10% 50V X5R 0402	1	0.0099021392	0.0099021392	0.19656987%

Analyst : N.Venkata Naga Aravind.
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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.146	Capacitor	Capacitor,C73,1uF ±10% 50V X5R 0402	1	0.0099131782	0.0099131782	0.19678903%
2.1.147	Capacitor	Capacitor,C142,1uF ±10% 50V X5R 0402	1	0.0099131782	0.0099131782	0.19678903%
2.1.148	Capacitor	Capacitor,C145,1uF ±10% 50V X5R 0402	1	0.0099131782	0.0099131782	0.19678903%
2.1.149	Capacitor	Capacitor,C155,1uF ±10% 50V X5R 0402	1	0.0099458341	0.0099458341	0.19743729%
2.1.150	Capacitor	Capacitor,C249,1uF ±10% 50V X5R 0402	1	0.013092751	0.013092751	0.25990751%
2.1.151	Capacitor	Capacitor,C134,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.15995611%
	Capacitor	Capacitor,C141,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.15995611%
	Capacitor	Capacitor,C143,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.15995611%
	Capacitor	Capacitor,C144,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.15995611%
2.1.155	Capacitor	Capacitor,C157,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.15995611%
2.1.156	Capacitor	Capacitor,C160,0.1uF ±10% 50V X5R 0402	1	0.0080642776	0.0080642776	0.16024805%
2.1.157	Capacitor	Capacitor,C162,0.1uF ±10% 50V X5R 0402	1	0.0085620321	0.0085620321	0.16996707%
2.1.158	Capacitor	Capacitor,C161,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.15995611%
2.1.159	Capacitor	Capacitor,C165,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.15995611%

Analyst: N.Venkata Naga Aravind
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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.160	Capacitor	Capacitor,C185,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.15995611%
2.1.161	Capacitor	Capacitor,C187,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.15995611%
2.1.162	Capacitor	Capacitor,C189,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.15995611%
2.1.163	Capacitor	Capacitor,C196,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.15995011%
2.1.164	Capacitor	Capacitor,C198,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.15995011%
2.1.165	Capacitor	Capacitor,C206,0.1uF ±10% 50V X5R 0402	1	0.0080842776	0.0080842776	0.16040305%
2.1.166	Capacitor	Capacitor,C210,0.1uF ±10% 50V X5R 0402	1	0.0085620321	0.0085620321	0.16996707%
2.1.167	Capacitor	Capacitor,C211,0.1uF ±10% 50V X5R 0402	1	0.0085620321	0.0085620321	0.16996707%
2.1.168	Capacitor	Capacitor,C212,0.1uF ±10% 50V X5R 0402	1	0.0085620321	0.0085620321	0.16996707%
2.1.169	Capacitor	Capacitor,C215,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.15995611%
2.1.170	Capacitor	Capacitor,C219,0.1uF ±10% 50V X5R 0402	1	0.0085620321	0.0085620321	0.16996707%
2.1.171	Capacitor	Capacitor,C225,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.15995611%
2.1.172	Capacitor	Capacitor,C228,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.15995611%
2.1.173	Capacitor	Capacitor,C232,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.15995611%

Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2 1.174	Capacitor	Capacitor,C235,0.1uF ±10% 50V X5R 0402	1	0.0080475379	0.0080475379	0.1597537%
2 1.175	Capacitor	Capacitor,C237,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.1599511%
2.1.176	Capacitor	Capacitor,C239,0.1uF ±10% 50V X5R 0402	1	0.0080516504	0.0080516504	0.1598339%
2.1.177	Capacitor	Capacitor,C260,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.1599561%
2.1.178	Capacitor	Capacitor,C253,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.1599561%
2.1.179	Capacitor	Capacitor,C257,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.1599561%
2.1.180	Capacitor	Capacitor,C258,0.1uF ±10% 50V X5R 0402	1	0.0080487607	0.0080487607	0.159778%
2.1.181	Capacitor	Capacitor,C334,0.1uF ±10% 50V X5R 0402	1	0.0080471253	0.0080471253	0.1597455%
2.1.182	Capacitor	Capacitor,C847,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.1599561%
2.1.183	Capacitor	Capacitor,C1631,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.1599561%
2.1.184	Capacitor	Capacitor,C85,0.1uF ±10% 50V X5R 0402	1	0.0080475379	0.0080475379	0.1597537%
2.1.185	Capacitor	Capacitor,C271,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.1599561%
2.1.186	Capacitor	Capacitor,C300,0.1uF ±10% 50V X5R 0402	1	0.0080577331	0.0080577331	0.1599561%
2.1.187	Capacitor	Capacitor,C88,0.1uF ±10% 50V X5R 0201	1	0.0080475379	0.0080475379	0.1597537%

Analyst : N.Venkata Naga Aravind:
Compiled By:V.Jambulingam:
Approved By : R Rachika:

Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.188	Capacitor	Capacitor,C89 0.1uF ±10% 50V X5R0201	1	0.0080475379	0.0080475379	0.15975372%
2.1.189	Capacitor	Capacitor,C111 0.1uF ±10% 50V X5R 0201	1	0.0080516804	0.0080516804	0.15983595%
2.1.190	Capacitor	Capacitor,C112,0.1uF ±10% 50V X5R 0201	1	0.0080516804	0.0080516804	0.15983595%
2.1.191	Capacitor	Capacitor,C846,0.1uF ±10% 50V X5R 0201	1	0.0080475379	0.0080475379	0.15975372%
2.1.192	Capacitor	Capacitor,C20,0.1uF ±10% 50V X5R 0201	1	0.0080471485	0.0080471486	0.15974599%
2.1.193	Capacitor	Capacitor,C21,0.1uF ±10% 50V X5R 0201	1	0.0080471485	0.0080471486	0.15974599%
2.1.194	Capacitor	Capacitor,C22,0.1uF ±10% 50V X5R 0201	1	0.0080471485	0.0080471486	0.15974599%
2.1.195	Capacitor	Capacitor,C23,0.1uF ±10% 50V X5R 0201	1	0.0080471485	0.0080471486	0.15974599%
2.1.196	Capacitor	Capacitor,C24,0.1uF ±10% 50V X5R 0201	1	0.0080471485	0.0080471486	0.15974599%
2.1.197	Capacitor	Capacitor,C25,0.1uF ±10% 50V X5R 0201	1	0.0080577331	0.0080577331	0.15996011%
2.1.198	Capacitor	Capacitor,C26,0.1uF ±10% 50V X5R 0201	1	0.0080471485	0.0080471486	0.15974599%
2.1.199	Capacitor	Capacitor,C27,0.1uF ±10% 50V X5R 0201	1	0.0080471485	0.0080471486	0.15974599%
2.1.200	Capacitor	Capacitor,C29,0.1uF ±10% 50V X5R 0201	1	0.0080471485	0.0080471486	0.15974599%
2.1.201	Capacitor	Capacitor,C30,0.1uF± 10%,50V,X5R,0201	1	0.0080471485	0.0080471486	0.15974599%

Analyst : N Venkata Naga Arvind:
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Approved By : R Radhika:

Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.202	Capacitor	Capacitor,C31,0.1uF± 10%,50V,X5R,0201	1	0.0080471486	0.0080471486	0.15974599%
2.1.203	Capacitor	Capacitor,C32,0.1uF± 10%,50V,X5R,0201	1	0.0080471486	0.0080471486	0.15974599%
2.1.204	Capacitor	Capacitor,C33,0.1uF± 10%,50V,X5R,0201	1	0.0080471486	0.0080471486	0.15974599%
2.1.205	Capacitor	Capacitor,C34,0.1uF± 10%,50V,X5R,0201	1	0.0080471486	0.0080471486	0.15974599%
2.1.206	Capacitor	Capacitor,C35,0.1uF± 10%,50V,X5R,0201	1	0.0080471486	0.0080471486	0.15974599%
2.1.207	Capacitor	Capacitor,C36,0.1uF± 10%,50V,X5R,0201	1	0.0080471486	0.0080471486	0.15974599%
2.1.208	Capacitor	Capacitor,C37,0.1uF± 10%,50V,X5R,0201	1	0.0080471486	0.0080471486	0.15974599%
2.1.209	Capacitor	Capacitor,C38,0.1uF± 10%,50V,X5R,0201	1	0.0080471486	0.0080471486	0.15974599%
2.1.210	Capacitor	Capacitor,C39,0.1uF± 10%,50V,X5R,0201	1	0.0080471486	0.0080471486	0.15974599%
2.1.211	Capacitor	Capacitor,C40,0.1uF± 10%,50V,X5R,0201	1	0.0080471486	0.0080471486	0.15974599%
2.1.212	Capacitor	Capacitor,C41,0.1uF± 10%,50V,X5R,0201	1	0.0080471486	0.0080471486	0.15974599%
2.1.213	Capacitor	Capacitor,C44,0.1uF± 10%,50V,X5R,0201	1	0.0080475379	0.0080475379	0.15975372%
2.1.214	Capacitor	Capacitor,C45,0.1uF± 10%,50V,X5R,0201	1	0.0080475379	0.0080475379	0.15975372%
2.1.215	Capacitor	Capacitor,C46,0.1uF± 10%,50V,X5R,0201	1	0.0080577331	0.0080577331	0.15995611%

Analyst : N Venkata Naga Aravind
Compiled By:V Jambulingam
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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.216	Capacitor	Capacitor,C47,0.1uF± 10%,50V,X5R,0201	1	0.0080475379	0.0080475379	0.15975372%
2.1.217	Capacitor	Capacitor,C48,0.1uF± 10%,50V,X5R,0201	1	0.0080475379	0.0080475379	0.15975372%
2.1.218	Capacitor	Capacitor,C50,0.1uF± 10%,50V,X5R,0201	1	0.0080475379	0.0080475379	0.15975372%
2.1.219	Capacitor	Capacitor,C51,0.1uF± 10%,50V,X5R,0201	1	0.0080475379	0.0080475379	0.15975372%
2.1.220	Capacitor	Capacitor,C52,0.1uF± 10%,50V,X5R,0201	1	0.0080475379	0.0080475379	0.15975372%
2.1.221	Capacitor	Capacitor,C53,0.1uF± 10%,50V,X5R,0201	1	0.0080475379	0.0080475379	0.15975372%
2.1.222	Capacitor	Capacitor,C54,0.1uF± 10%,50V,X5R,0201	1	0.0080475379	0.0080475379	0.15975372%
2.1.223	Capacitor	Capacitor,C55,0.1uF± 10% 50V,X5R,0201	1	0.0080475379	0.0080475379	0.15975372%
2.1.224	Diode, Low Frequency	Diode, Low Frequency,D7,TVS,Bi, 15V,1500W,SMC	1	0.16474132	0.16474132	3.2703218%
2.1.225	Diode, High Frequency	Diode, High Frequency,D6,3.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER	1	0	0	0%
2.1.226	Diode, Low Frequency	Diode, Low Frequency,D111,Thyristors Solid Protection Device Bidirectional transient voltage suppressors	1	0.16474132	0.16474132	3.2703218%

Analyst : N.Venkata Naga Aravind
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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.227	Diode, Low Frequency	Diode, Low Frequency,D112.Thyristors Solid Protection Device Bidirectional transient voltage suppressors	1	0.16474132	0.16474132	3.27032~8%
2.1.228	Diode, Low Frequency	Diode, Low Frequency,D10,High Property Device for Surge & ESD	1	0.082370661	0.082370661	1.6351609%
2.1.229	Diode, Low Fracuency	Diode, Low Frequency,D11,High Property Device for Surge & ESD	1	0.082370661	0.082370661	1.6351609%
2.1.230	Diode, High Frequency	Diode, High Frequency,D9,Schotiky Barrier Diode	1	0.21028864	0.21028864	4.1744933%
	Quartz Crystal	Quartz Crystal,X1,24MHz,SMD 3.2*2.5mm,20pF,±20PPM	1	0.08100526	0.08100526	1.6080561%
2.1.232	Quartz Crystal	Quartz Crystal,X2,32.768KHz,12.5pF,±20PPM,3.2*1.5,SMD	1	0.017767163	0.017767163	0.352700475%
2.1.233	Connector, General	Connector, General,J2,Conn, B2C.TB, Male, 1x3, 1.25mm, SMD	1	0.18440087	0.18440087	3.6605885%

Analyst : N.Venkata Naga Aravind:
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Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.234	Connector, General	Connector, General,J5,Conn, B2C,TB, Male, 1x5, 1.25mm, SMD	1	0.1840204	0.1840204	3.6530356%
2.1.235	Connector, General	Connector, General,J18,Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1	0.18440087	0.18440087	3.6605885%
2.1.236	Connector, General	Connector, General,J29,Conn, B2C,TB, Male, 1x2 1.25mm, SMD	1	0.18440087	0.18440087	3.6605885%
	Connector, General	Connector, General,J1,Conn, B2C,TB, Male, 1x4, 1.25mm, SMD	1	0.18440087	0.18440087	3.6605885%
	Connector, General	Connector, General,J12,Conn, B2C,TB, Male, 1x4,1.25mm, SMD	1	0.18440087	0.18440087	3.6605885%
2.1.239	Connector, General	Connector, General,J8,Conn, B2C, Male, 1x2, 1.25mm, ST, SMD	1	0.18402858	0.18402858	3.6531982%
2.1.240	Connector, General	Connector, General,J10,Conn, B2C, Male, 1x2, 1.25mm, ST, SMD	1	0.18440087	0.18440087	3.6605885%
2.1.241	Connector, General	Connector, General,J3,Conn, B2C, Male, 1x10, 1.25mm, ST, SMD	1	0.18440087	0.18440087	3.6605885%

Analyst : N.Venkata Naga Aravind:
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Approved By : R.Radhika:

Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.242	Connector, General	Connector, General,J7,Conn, B2C Male, 1x12, 1.25mm. ST, SMD	1	0.18407355	0.18407355	3.6540509%
2.1.243	Connector, General	Connector, General,J5,0.5mm FFC/FPC DUAL CONTACT SIDE CONNECTOR	1	0.18440087	0.18440087	3.6605885%
2.1.244	Micro, Linear	Micro, Linear,U18,DIFFERENTIAL BUS TRANSCEIVERS	1	0.010204428	0.010204428	0.2025769%
2.1.245	Micro, Linear	Micro, Linear,U61, 1A high-efficiency synchronous step-down converter	1	0.0080983331	0.0080983331	0.16076207%
2.1.246	Micro, Linear	Micro, Linear,U60,300-mA, Low-Dropout Regulator	1	0.0080983331	0.0080983331	0.16076207%
2.1.247	Micro, Linear	Micro, Linear,U21,2A high-efficiency synchronous step-down converter	1	0.0080983331	0.0080983331	0.16076207%
2.1.248	Micro, Linear	Micro, Linear,U50,2A high-efficiency synchronous step-down converter	1	0.0080983331	0.0080983331	0.16076207%

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EFKON INDIA PVT. LTD.
CFR CHENNAI

Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
2.1.249	Micro Linear	Micro, Linear,U51,2A high-efficiency synchronous step-down converter	1	0.0080983331	0.0080983331	0.160762079%
2.1.250	Micro. Linear	Micro, Linear,U20,2A synchronous step-down converter	1	0.0087914346	0.0087914346	0.174521%
2.1.251	Micro, Linear	Micro, Linear,U8, 2-Bit, 2-Supply, Bus Transceiver with Configurable Level-ShiftingTranslati on anc 3-State Outputs and	1	0.010204428	0.010204428	0.202570699%
2.1.252	Micro, Linear	Micro, Linear,U34,microproc essor (?P) supervisorycircuits	1	0.0074163042	0.0074163042	0.147222794%
2.1.253	Micro, Linear	Micro, Linear,U19,2A synchronous step-down converter	1	0.0087914346	0.0087914346	0.174521%
2.1.254	Micro, Digital	Micro, Digital,IC,SERIAL NAND, 2Gb,WSON8	1	0.0076474766	0.0076474766	0.151812%
2.1.255	Micro, Not EEPROM	Micro, Not EEPROM,U15,IC,ME M,4Gb,1200MHz, DDR4,BGA96	1	0.080929741	0.080929741	1.6065569%

Analyst : N.Venkata Naga Aravind
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Approved By : R.Radhika

Name	Category Description	Description	Quantity	Failure Rate	NxFailure Rate	Percent Contribution
1.1.256	External	External,Digital.U1.IC. CV28S66M, Ambarella vision processor.VFBGA-288 _0.65_11*12mm	1	0.01074	0.01074	0.21320246%
1.1.257	External	External,U25,300-mA, Low-Dropout Regulator	1	0.063277997	0.063277997	1.25614765%
1.1.258	Micru, Linear	Micro, Linear_U54_10/100Mb ps single-port Physical Layer transceiver	1	0.025383623	0.025383623	0.50389677%

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Annexure- III

PI FACTORS REPORT

(Temperature 25°C)

MIL- HDBK- 217F Pi FACTORS REPORT

Name: SC-INI122XP-I(Z)(S)
Failure Rate: 7.2192492
MTBF: 138516.56

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1	Block,ImageSensor IMX335	1		2.1817842	2.1817842
1.1	IA, Surface Mount Tech	1	SMT Rate=0.21820916; Thermal Cyc to Failure=555758.63; Strain Range=-3.15e-5; Eff Cum Failures=0.13; Temperature Rise (degC)=4.5; Environment Temp Diff=21; Lead Configuration=1;	2.1817842	2.1817842
	Resistor,R 1.4.95K?± 1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.72579306;	0.0043759723	0.0043759723
	Resistor,R12,4.95K?± 1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.72579306;	0.0043759723	0.0043759723
1.1.3	Resistor,R71,10K?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.71019995;	0.0042819576	0.0042819576
1.1.4	Resistor,R73,10K?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.71019995;	0.0042819576	0.0042819576
1.1.5	Resistor,R75,10K?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.71019995;	0.0042819576	0.0042819576

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.6	Resistor,R188,10K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.72373939;	0.0043635899	0.0043635899
1.1.7	Resistor,R191,10K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.72373939;	0.0043635899	0.0043635899
1.1.8	Resistor,R197,10K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.72373939;	0.0043635899	0.0043635899
1.1.9	Resistor,R202,10K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.72373939;	0.0043635899	0.0043635899
1.1.10	Resistor,R201,10K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.72373939;	0.0043635899	0.0043635899
1.1.11	Resistor,RT19.4K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.71663214;	0.0043329778	0.0043329778
1.1.12	Resistor,R303,2K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.76078902;	0.0047075553	0.0047075553
1.1.13	Resistor,R305,2K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.76078902;	0.0047075553	0.0047075553
1.1.14	Resistor,RT21.1K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.72019422;	0.0043422151	0.0043422151

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.15	Resistor,RT23,1K?±1 % 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1, Temperature=1; Power=0.40738028; Stress=0.72019422	0.0043422151	0.0043422151
1.1.16	Resistor,RT15,1K?±1 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.75166383;	0.0045319516	0.0045319516
1.1.17	Resistor,RT16,1K?±1 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.75166383;	0.0045319516	0.0045319516
1.1.18	Resistor,R1,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1 Temperature=1, Power=0.40738028; Stress=0.70999998,	0.004280752	0.004280752
1.1.19	Resistor,R413,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037 Environment=4; Quality=1. Temperature=1; Power=0.40738028; Stress=0.70999998;	0.004280752	0.004280752
1.1.20	Resistor,R420,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037 Environment=4; Quality=1 Temperature=1; Power=0.40738028, Stress=0.70999998,	0.004280752	0.004280752
1.1.21	Resistor,R421,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4, Quality=1. Temperature=1; Power=0.40738028; Stress=0.70999998;	0.004280752	0.004280752
1.1.22	Resistor,R422,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1, Temperature=1; Power=0.40738028; Stress=0.70999998;	0.004280752	0.004280752
1.1.23	Resistor,R423,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1. Temperature=1; Power=0.40738028; Stress=0.70999998	0.004280752	0.004280752

Analyst : N.Venkata Naga Aravind
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Approved By : R.Rachika:

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1 1.24	Resistor,R424,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1; Temperature=1, Power=0.40738025; Stress=0.71700046;	0.0043265762	0.0043265762
1.1.25	Resistor R425,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.70999998.	0.004280752	0.004280752
1 1.26	Resistor,R194,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.70999998.	0.004280752	0.004280752
1 1.27	Resistor,R72,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1, Power=0.40738028 Stress=0.70999958.	0.004280752	0.004280752
1 1.28	Resistor,RT17,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1, Power=0.40738028. Stress=0.70999998;	0.004280752	0.004280752
	Resistor,RT18,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1; Temperature=1, Power=0.40738028. Stress=0.70999998;	0.004280752	0.004280752
1 1.30	Resistor,FB1,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1, Temperature=1, Power=0.40738028; Stress=0.70999998;	0.004280752	0.004280752
1 1.31	Resistor,FB2,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1; Temperature=1, Power=0.40738028; Stress=0.70999998;	0.004280752	0.004280752
1 1.32	Resistor,FB3,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.70999998;	0.004280752	0.004280752

Analyst N Venkata Naga Aravind:
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Approved By R.Radhika:

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.33	Resistor,FB4,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.70999998	0.004280752	0.004280752
1.1.34	Resistor,BL1,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1; Temperature=1, Power=0.40738028; Stress=0.70999998;	0.004280752	0.004280752
1.1.35	Resistor,R2,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037 Environment=4, Quality=1 Temperature=1; Power=0.40738028; Stress=0.70999998;	0.004280752	0.004280752
1.1.36	Resistor,R3,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4 Quality=1 Temperature=1; Power=0.40738028; Stress=0.71760046;	0.0043255765	0.0043255765
1.1.37	Resistor,R210,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1, Temperature=1; Power=0.40738028; Stress=0.70999998.	0.004280752	0.004280752
1.1.38	Resistor,R211,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4 Quality=1; Temperature=1; Power=0.40738028; Stress=0.70999998;	0.004280752	0.004280752
1.1.39	Resistor,R212,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4 Quality=1; Temperature=1; Power=0.40738028; Stress=0.70999998;	0.004280752	0.004280752
1.1.40	Resistor,R213,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1; Temperature=1; Power=0.40738028; Stress=0.70999998;	0.004280752	0.004280752
1.1.41	Resistor,R214,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4 Quality=1; Temperature=1; Power=0.40738028; Stress=0.70999998.	0.004280752	0.004280752

Analyst : N.Venkata Naga Aravind
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Name	Description	Quantity	PI Factors All	Failure Rate	Nxfailure Rate
1.1.42	Resistor,R215,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1; Temperature=1; Power=0.40738025; Stress=0.70999995;	0.004260752	0.004260752
1.1.43	Resistor,R216,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738025, Stress=0.70999995,	0.004260752	0.004260752
1.1.44	Resistor,R219,0?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1; Temperature=1; Power=0.40738025, Stress=0.70999998;	0.004260752	0.004260752
1.1.45	Capacitor,C65,22pF±5% 50V NP0 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001, Capacitance=0.3809067 9; Stress=1.001331; Circuit Resistance=1.	0.0037759906	0.0037759906
1.1.46	Capacitor,C66,22pF±5% 50V NP0 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001, Capacitance=0.3809067 9; Stress=1.001331; Circuit Resistance=1.	0.0037759906	0.0037759906
1.1.47	Capacitor,CT2.100pF±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.53703177; Stress=1.000216; Circuit Resistance=1.	0.0053177634	0.0053177634
1.1.48	Capacitor,C25,0.22uF±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.87260568; Stress=1.001331; Circuit Resistance=1;	0.0086502954	0.0086502954
1.1.49	Capacitor,C1,1uF±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1; Stress=1.001331; Circuit Resistance=1;	0.0099131782	0.0099131782

Analyst : N.Venkata Naga Aravind
Compiled By :V.Jambulingam
Approved By : R.Radhika

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.50	Capacitor,C28,1uF±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001 Capacitance=1 Stress=1.001331, Circuit Resistance=1.	0.0099131782	0.00991317 82
1.1.51	Capacitor,C350,2.2uF±10% 50V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10; Quality=1; Temperature=1.0000001, Capacitance=1.0735395; Stress=1.001331 Circuit Resistance=1;	0.010642187	0.010642187
1.1.52	Capacitor,C352,2.2uF±10% 50V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1.0735395 Stress=1.001331, Circuit Resistance=1;	0.010642187	0.010642187
1.1.53	Capacitor,C357,2.2uF±10% 50V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10, Quality=1. Temperature=1.0000001; Capacitance=1.0735395. Stress=1.001331; Circuit Resistance=1;	0.010642187	0.010642187
	Capacitor,C2,10uF±10% 25V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1. Temperature=1.0000001; Capacitance=1.2302688, Stress=1.0038505; Circuit Resistance=1.	0.012226925	0.012226925
1.1.55	Capacitor,C4,10uF±10% 25V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1.2302688; Stress=1.0134975; Circuit Resistance=1,	0.012344057	0.012344057
1.1.56	Capacitor,C5,10uF±10% 25V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10 Quality=1; Temperature=1.0000001. Capacitance=1.2302688; Stress=1.0134975; Circuit Resistance=1;	0.012344057	0.012344057

Analyst : N.Venkata Naga Aravind.
Compiled By :V Jambulingam.
Approved By : Ti Rachika

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.57	Capacitor,C10,10uF= 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1. Temperature=1.0000001; Capacitance=1.2302688. Stress=1.0006298; Circuit Resistance=1;	0.012157333	0.012157333
1.1.58	Capacitor,C15,10uF= 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1. Temperature=1.0000001; Capacitance=1.2302688 Stress=1.0134075; Circuit Resistance=1;	0.012344057	0.012344057
1.1.59	Capacitor,C16,10uF= 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10, Quality=1 Temperature=1.0000001; Capacitance=1.2302688. Stress=1.0001866; Circuit Resistance=1;	0.012161934	0.012161934
	Capacitor,C22,10uF= 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1. Temperature=1.0000001; Capacitance=1.2302688. Stress=1.0001866; Circuit Resistance=1;	0.012161934	0.012161934
	Capacitor,C29,10uF= 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1.2302655; Stress=1.0001866; Circuit Resistance=1.	0.012161934	0.012161934
1.1.62	Capacitor,C30,10uF= 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997. Environment=10 Quality=1; Temperature=1.0000001; Capacitance=1.2302688; Stress=1.0029155; Circuit Resistance=1.	0.012215172	0.012215172
1.1.63	Capacitor,C44,10uF= 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10. Quality=1, Temperature=1.0000001; Capacitance=1.2302688; Stress=1.0026336, Circuit Resistance=1;	0.012211735	0.012211735

Analyst : N Venkata Naga Aravind.
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Approved By : R.Radhika.

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.64	Capacitor,C48,10uF± 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.000969999997, Environment=10; Quality=1; Temperature=1.0000001 Capacitance=1.2302688; Stress=1.0026336; Circuit Resistance=1;	0.012211738	0.012211738
1.1.65	Capacitor,C74,10uF± 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.000969999997, Environment=10; Quality=1; Temperature=1.0000001 Capacitance=1.2302688; Stress=1.0038805; Circuit Resistance=1;	0.012226925	0.012226925
1.1.66	Capacitor,C75,10uF± 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.000969999997; Environment=10; Quality=1; Temperature=1.0000001, Capacitance=1.2302688; Stress=1.0001866, Circuit Resistance=1;	0.012181934	0.012181934
1.1.67	Capacitor,C78,10uF± 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.000969999997; Environment=10; Quality=1; Temperature=1.0000001, Capacitance=1.2302688; Stress=1.0038805; Circuit Resistance=1;	0.012226925	0.012226925
1.1.68	Capacitor,C85,10uF± 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.000969999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1.2302688; Stress=1.0038805; Circuit Resistance=1;	0.012226925	0.012226925
1.1.69	Capacitor,C92,10uF± 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.000969999997, Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1.2302688; Stress=1.0134975; Circuit Resistance=1.	0.012344057	0.012344057
1.1.70	Capacitor,C96,10uF± 10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.000969999997 Environment=10; Quality=1; Temperature=1.0000001 Capacitance=1.2302688; Stress=1.0026336; Circuit Resistance=1;	0.012211738	0.012211738

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.71	Capacitor,C161,10uF ±10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1.2302688; Stress=1.0006298; Circuit Resistance=1;	0.012187339	0.012187339
1.1.72	Capacitor,C358,10uF ±10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1.2302688; Stress=1.0134975; Circuit Resistance=1;	0.012344057	0.012344057
1.1.73	Capacitor,C208,10uF ±10% 35V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1.2302688; Stress=1.0134975; Circuit Resistance=1;	0.012344057	0.012344057
	Capacitor,C14,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.0080475379	0.0080475379
	Capacitor,C16,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.0080475379	0.0080475379
1.1.76	Capacitor,C18,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.0080475379	0.0080475379
1.1.77	Capacitor,C19,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0009032; Circuit Resistance=1;	0.0080542909	0.0080542909

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.78	Capacitor,C20,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000969999997 Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.000064, Circuit Resistance=1;	0.0080475379	0.0080475379
1.1.79	Capacitor,C21,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000969999997; Environment=10; Quality=1, Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0009032; Circuit Resistance=1;	0.0080542909	0.0080542909
1.1.80	Capacitor,C23,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000969999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.0080475379	0.0080475379
	Capacitor,C24,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000969999997; Environment=10; Quality=1; Temperature=1.0000001, Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.0080475379	0.0080475379
	Capacitor,C26,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000969999997; Environment=10; Quality=1; Temperature=1.0000001 Capacitance=0.81283051, Stress=1.000064; Circuit Resistance=1	0.0080475379	0.0080475379
1.1.83	Capacitor,C27,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000969999997; Environment=10; Quality=1, Temperature=1.0000001, Capacitance=0.81283051; Stress=1.001231, Circuit Resistance=1;	0.0080577331	0.0080577331
1.1.84	Capacitor,C31,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.000969999997, Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051, Stress=1.0009032; Circuit Resistance=1;	0.0080542909	0.0080542909

Analyst : N.Venkata Naga Aravind
Compiled By :V.Jambulingam:
Approved By : R Radhika:

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.85	Capacitor,C32,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001 Capacitance=0.81283051; Stress=1.0009032; Circuit Resistance=1;	0.0080542909	0.0080542909
1.1.86	Capacitor,C33,0.1uF± 10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051, Stress=1.0009032; Circuit Resistance=1;	0.0080542909	0.0080542909
1.1.87	Capacitor,C34,0.1uF± 10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051, Stress=1.0009032; Circuit Resistance=1;	0.0080542909	0.0080542909
1.1.88	Capacitor,C35,0.1uF± 10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0009032; Circuit Resistance=1;	0.0080542909	0.0080542909
1.1.89	Capacitor,C36,0.1uF± 10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051, Stress=1.000216; Circuit Resistance=1;	0.0080487607	0.0080487607
1.1.90	Capacitor,C37,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1, Temperature=1.0000001; Capacitance=0.81283051, Stress=1.000216; Circuit Resistance=1	0.0080487607	0.0080487607
1.1.91	Capacitor,C38,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997 Environment=10; Quality=1; Temperature=1.0000001 Capacitance=0.81283051, Stress=1.000064; Circuit Resistance=1	0.0080475379	0.0080475379

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.92	Capacitor,C39,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051 Stress=1.000064; Circuit Resistance=1;	0.0080475379	0.0080475379
1.1.93	Capacitor,C40,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10, Quality=1, Temperature=1.0000001, Capacitance=0.81283051, Stress=1.0009032, Circuit Resistance=1;	0.0080542909	0.0080542909
1.1.94	Capacitor,C41,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051, Stress=1.000064, Circuit Resistance=1;	0.0080475379	0.0080475379
1.1.95	Capacitor,C42,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1, Temperature=1.0000001; Capacitance=0.81283051, Stress=1.001331; Circuit Resistance=1;	0.0080577331	0.0080577331
1.1.96	Capacitor,C43,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001 Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.0080475379	0.0080475379
1.1.97	Capacitor,C45,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997 Environment=10; Quality=1, Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0009032, Circuit Resistance=1;	0.0080542909	0.0080542909
1.1.98	Capacitor,C46,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10, Quality=1; Temperature=1.0000001; Capacitance=0.81283051, Stress=1.000064, Circuit Resistance=1;	0.0080475379	0.0080475379

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Compiled By :V.Jambulingam;
Approved By : R.Rachika;

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.99	Capacitor,C49,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0009032; Circuit Resistance=1;	0.0080542909	0.0080542909
1.1.100	Capacitor,C75,0.1uF ±10% 50V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.0080577331	0.0080577331
1.1.101	Diode, Low Frequency,D1,Schottky Barrier Diode	1	Base Failure Rate (fpmh)=0.003; Environment=6; Quality=5.5; Temperature=1.9200821; Stress=0.054000001; Contact Form=1;	0.010264853	0.010264853
1.1.102	Quartz Crystal,X2,24MHz,SMD 3.2*2.5mm,20pF,±20PPM	1	Base Failure Rate (fpmh)=0.027001753; Environment=3; Quality=1;	0.08100526	0.08100526
	Connector, General,J2 Conn. B2C,TB, Male, 1x2, 1.25mm, SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.0021787;	0.18440087	0.18440087
1.1.104	Connector, General,J6.Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.0001109.	0.1840204	0.1840204
1.1.105	Connector, General,J1.Conn. B2C,TB Male, 1x4, 1.25mm, SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.0021787;	0.18440087	0.18440087

Analyst : N.Venkata Naga Aravind;
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Approved By : R.Radhika;

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1.1.106	Connector, General,J5,Conn, B2C.TB, Male, 1x8 1.25mm, SMD	1	Base Failure Rate (fpmh)=0.046 Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.0021787;	0.18440087	0.18440087
1.1.107	Connector, General,J5,0.5mm FFC/FPC DUAL CONTACT SIDE CONNECTOR	1	Base Failure Rate (fpmh)=0.046, Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.0021787;	0.18440087	0.18440087
1.1.108	Coil,C4,Power inductor, 4.7uH 20%,2.0A,SM D	1	Base Failure Rate (fpmh)=2.9999999e-5; Environment=6; Quality=1; Temperature=1.1647363;	0.00020965253	0.00020965253
	Coil,L23,Power inductor, 4.7uH,20%,2.0A,SM D	1	Base Failure Rate (fpmh)=2.9999999e-5; Environment=6; Quality=1; Temperature=1.1014183;	0.00019825526	0.00019825526
	Coil,L1,Power inductor, 2.2uH,20%,1.5A,SM D	1	Base Failure Rate (fpmh)=2.9999999e-5; Environment=6 Quality=1; Temperature=1.1647363.	0.00020965253	0.00020965253
1.1.111	Coil,L5,Power inductor, 2.2uH,20%,1.5A,SM D	1	Base Failure Rate (fpmh)=2.9999999e-5; Environment=6; Quality=1; Temperature=1.1647363.	0.00020965253	0.00020965253
1.1.112	Coil,L6,Power inductor, 2.2uH,20%,1.5A,SM D	1	Base Failure Rate (fpmh)=2.9999999e-5; Environment=6; Quality=1; Temperature=1.1647363.	0.00020965253	0.00020965253
1.1.113	Coil,L7,Power Inductor, 2.2uH,20%,1.5A,SM D	1	Base Failure Rate (fpmh)=2.9999999e-5; Environment=6; Quality=1; Temperature=1.1647363;	0.00020965253	0.00020965253

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
1 1 114	Coil,L24 Power inductor, 2.2uH,20%,1A,SMD	1	Base Failure Rate (fpmh)=2.9999999e-5; Environment=6; Quality=1; Temperature=1.1647353;	0.00020965253	0.00020965253
1 1 115	Micro, Linear,U2,Dual-channel ultra-low noise 256 micro-stepping low-voltage motor driver	1	Environment=2; Quality=1; Learning=1; Temperature=0.4913581; Die Complexity Rate=0.0099999999; Package Rate=0.011622791	0.028559153	0.028559153
1 1 116	Micro, Linear,U8,Dual ground sense operational amplifier	1	Environment=2; Quality=1; Learning=1; Temperature=0.4913581; Die Complexity Rate=0.0099999999; Package Rate=0.0026454236.	0.010204428	0.010204428
1 1 117	Micro, Linear,U14,300-mA Low-Dropout Regulator	1	Environment=2; Quality=1; Learning=1; Temperature=0.4913581; Die Complexity Rate=0.0099999996; Package Rate=0.001592376.	0.00800983331	0.00800983331
1 1 118	Micro, Linear,U15,300-mA Low-Dropout Regulator	1	Environment=2; Quality=1; Learning=1 Temperature=0.4913581; Die Complexity Rate=0.0099999996; Package Rate=0.001592376.	0.00800983331	0.00800983331
1 1 119	Micro, Linear,U 5,300-mA Low-Dropout Regulator	1	Environment=2; Quality=1; Learning=1; Temperature=0.4913581; Die Complexity Rate=0.0099999996; Package Rate=0.001592376.	0.00800983331	0.00800983331
1 1 120	External,IMX335 Image Sensor,Diagonal 8.43mm(Type 1/2.8) CMOS Solid-state Image Sensor	1	Base Failure Rate (fpmh)=0.16; Temperature=1.	0.16	0.16
2	Block,MainBoard(CPU; CV22s33m	1		5.0374651	5.0374651

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Name	Description	Quantity	Pi Factors All	Failure Rate	NrFailure Rate
2.1	IA, Surface Mount Tmrf	1	SMT Rate=0 21820916; Thermal Cyc to Failure=595758 63; Strain Range=3.15e-5, Eff Cum Failures=0 13; Temperature Rise (degC)=4 5; Environment Temp Diff=21; Lead Configuration=1.	5.0374651	5.0374651
2.1.1	Resistor,R155,10K?± 1% 0402	1	Base Failure Rate (1pmh)=0 0037; Environment=4; Quality=1, Temperature=1; Power=0.40738028; Stress=0.71044999;	0.004283465	0.004283465
2.1.2	Resistor,R20, 54 9K?±1% 0402	1	Base Failure Rate (fpmh)=0 0037. Environment=4; Quality=1. Temperature=1; Power=0.40738028; Stress=0.71412307;	0.0043056109	0.0043056109
2.1.3	Resistor,R24,31.6K? ±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4 Quality=1; Temperature=1 Power=0.40738028; Stress=0 71257983;	0.0042963005	0.0042963005
2.1.4	Resistor,R154,20K?± 1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.71050025;	0.0042861796	0.0042861796
2.1.5	Resistor,R160,25.5K ±1% 0402	1	Base Failure Rate (1pmh)=0 0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.71001095.	0.0042808152	0.0042808152
2.1.6	Resistor,R161,100K? ±1% 0402	1	Base Failure Rate (fpmh)=0 0037; Environment=4; Quality=1; Temperature=1; Power=0 40738028; Stress=0.71004406;	0.0042810231	0.0042810231
2.1.7	Resistor,R1352,24K? ±1% 0402	1	Base Failure Rate (fpmh)=0 0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.71125066;	0.0042852925	0.0042852925
2.1.8	Resistor,R1339,37 4 ?±1% 0402	1	Base Failure Rate (fpmh)=0.0037. Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.79857826;	0.0048148106	0.0048148106

Analyst . N.Venkata Naga Aravind:
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Name	Description	Quantity	Pi Factors All	Failure Rate	MxFailure Rate
2.1.9	Resistor,R202,470?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4 Quality=1; Temperature=1. Power=0.40738028. Stress=0.71098757;	0.0042667083	0.0042667083
2.1.10	Resistor,R203,470?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4 Quality=1; Temperature=1 Power=0.40738028. Stress=0.71098727;	0.0042667083	0.0042667083
2.1.11	Resistor,R205,470?±5% 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4, Quality=1; Temperature=1; Power=0.40738028 Stress=0.9131909;	0.0055058366	0.0055058366
2.1.12	Resistor,R210,470?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1, Power=0.40738028; Stress=0.9131909,	0.0055058366	0.0055058366
2.1.13	Resistor,R16,100K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.71000445	0.0042680779	0.0042680779
	Resistor,R22,100K?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028. Stress=0.71000445;	0.0042680779	0.0042680779
2.1.15	Resistor,R151,330?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1 Power=0.40738028; Stress=0.70999938,	0.0042680752	0.0042680752
2.1.16	Resistor,R333,330?±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1. Temperature=1. Power=0.40738028; Stress=0.70999995.	0.0042680752	0.0042680752
2.1.17	Resistor,R150,330?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1. Power=0.40738028; Stress=0.70999996.	0.0042680752	0.0042680752

Analyst : N Venkata Naga Aravind.
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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2 1.18	Resistor,R332,332?±5 % 0402	1	Base Failure Rate (fpmh)= 0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028 Stress=0.70999998.	0.004280752	0.004280752
2 1.19	Resistor,R131,560?± 5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738029; Stress=0.73751098;	0.004446622	0.004446622
2 1.20	Resistor,R134,560?± 5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1 Temperature=1, Power=0.40738028; Stress=0.73751098;	0.004446622	0.004446622
2 1.21	Resistor,R135,560?± 5% 0402	1	Base Failure Rate (fpmh)=0.0037 Environment=4, Quality=1, Temperature=1; Power=0.40738028, Stress=0.73751098;	0.004446622	0.004446622
2 1.22	Resistor,R372,10K? ±1% 0402	1	Base Failure Rate (fpmh)=0.0037 Environment=4; Quality=1 Temperature=1; Power=0.40738028; Stress=0.71816903;	0.004330005	0.004330005
2 1.23	Resistor,R159,10K?± 1% 0402	1	Base Failure Rate (fpmh)=0.0037 Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.71044999;	0.004283465	0.004283465
2 1.24	Resistor,R157,10K?± 1% 0402	1	Base Failure Rate (fpmh)=0.0037 Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.71044999;	0.004283465	0.004283465
2 1.25	Resistor,R155,10K?± 1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1; Temperature=1; Power=0.40738028, Stress=0.71044999;	0.004283465	0.004283465
2 1.26	Resistor,R152,10K?± 1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028, Stress=0.71734792.	0.0042250546	0.0042250546

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Name	Description	Quantity	PI Factors All	Failure Rate	NxFailure Rate
2 1 27	Resistor,R21,10K?±1 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1, Temperature=1; Power=0.40739028, Stress=0.71734792;	0.0043250546	0.0043250546
2 1.28	Resistor,R352,10K?± 1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1; Temperature=1; Power=0.40739028, Stress=0.71436025,	0.0043052323	0.0043052323
2 1.29	Resistor,R269,10K?± 1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40739028; Stress=0.71436025;	0.0043052323	0.0043052323
2 1.30	Resistor,R265,10K?± 1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40739028; Stress=0.71051254;	0.0042844452	0.0042844452
2 1.31	Resistor,R226,10K?± 1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40739028; Stress=0.71051254,	0.0042844452	0.0042844452
2 1.32	Resistor,R214,10K?± 1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40739028, Stress=0.72373939;	0.0043635899	0.0043635899
2 1.33	Resistor,R208,10K?± 1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1, Power=0.40739028; Stress=0.7385029,	0.0044411472	0.0044411472
2 1.34	Resistor,R207,10K?± 1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1; Temperature=1; Power=0.40739028, Stress=0.72373939;	0.0043635899	0.0043635899
2 1.35	Resistor,R205,10K?± 1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40739028; Stress=0.7385029;	0.0044411472	0.0044411472

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.36	Resistor,R197,10K?± 1% 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4, Quality=1; Temperature=1; Power=0.40738028; Stress=0.74193746;	0.00447331	0.0044733
2.1.37	Resistor,R196,10K?± 1% 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1, Temperature=1; Power=0.40738028; Stress=0.74193746;	0.00447331	0.0044733
2.1.38	Resistor,R28,10K?±1 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1; Temperature=1, Power=0.40738028; Stress=0.71061254;	0.0042844452	0.0042844452
2.1.39	Resistor,R8,10K?±1 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1, Temperature=1, Power=0.40738028; Stress=0.72373939,	0.0043635899	0.0043635899
2.1.40	Resistor,R30,4.7K?± 5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4 Quality=1; Temperature=1, Power=0.40738028; Stress=0.71866214;	0.0043329778	0.0043329778
2.1.41	Resistor,R100,4.7K? ±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4 Quality=1; Temperature=1; Power=0.40738028; Stress=0.72231412;	0.0043549966	0.0043549966
2.1.42	Resistor,R192,4.7K? ±5% 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1, Temperature=1, Power=0.40738028; Stress=0.71601067;	0.0043169931	0.0043169931
2.1.43	Resistor R193,4.7K? ±5% 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1, Temperature=1, Power=0.40738028; Stress=0.71601067,	0.0043169931	0.0043169931
2.1.44	Resistor,R104,4.7K? ±5% 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.71601067;	0.0043169931	0.0043169931

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.45	Resistor,R198,4.7K? ±5% 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.71601087.	0.00431699931	0.00431699931
2.1.46	Resistor,R35,07±5% 0201	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.70999998;	0.004280752	0.004280752
2.1.47	Resistor,R31.07±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1, Temperature=1; Power=0.40738028; Stress=0.70999998,	0.004280752	0.004280752
2.1.48	Resistor,R33.07±5% 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4, Quality=1, Temperature=1; Power=0.40738028, Stress=0.70999998;	0.004280752	0.004280752
2.1.49	Resistor,R136,07±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1, Power=0.40738028; Stress=0.70999998;	0.004280752	0.004280752
	Resistor,R156,07±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1, Temperature=1; Power=0.40738028, Stress=0.70999998;	0.004280752	0.004280752
2.1.51	Resistor,R165,07±5 % 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1, Temperature=1; Power=0.40738028; Stress=0.70999998;	0.004280752	0.004280752
2.1.52	Resistor,R304,07±5 % 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.70999998;	0.004280752	0.004280752
2.1.53	Resistor,R305.07±5 % 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1, Temperature=1; Power=0.40738028; Stress=0.70999998;	0.004280752	0.004280752

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.54	Resistor,R359,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1, Temperature=1; Power=0.40738028; Stress=0.70999998;	0.004280752	0.004280752
2.1.55	Resistor,R360,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1; Temperature=1; Power=0.40738028; Stress=0.70999998;	0.004280752	0.004280752
2.1.56	Resistor,R361,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.70999998;	0.004280752	0.004280752
2.1.57	Resistor,R362,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028 Stress=0.70999998	0.004280752	0.004280752
2.1.58	Resistor,R363,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1; Temperature=1; Power=0.40738028 Stress=0.70999998,	0.004280752	0.004280752
2.1.59	Resistor,R364,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1, Temperature=1; Power=0.40738028; Stress=0.70999998,	0.004280752	0.004280752
2.1.60	Resistor,R365,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028 Stress=0.70999998	0.004280752	0.004280752
2.1.61	Resistor,R366,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1; Temperature=1; Power=0.40738028, Stress=0.70999998;	0.004280752	0.004280752
2.1.62	Resistor,R367,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1, Temperature=1; Power=0.40738028; Stress=0.70999998;	0.004280752	0.004280752

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Name	Description	Quantity	PI Factors All	Failure Rate	NxFailure Rate
2.1.63	Resistor,R368,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4, Quality=1; Temperature=1; Power=0.40738028, Stress=0.70999998;	0.004280752	0.004280752
2.1.64	Resistor,R369,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.70999998;	0.004280752	0.004280752
2.1.65	Resistor,R1322,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1, Temperature=1; Power=0.40738028, Stress=0.70999998;	0.004280752	0.004280752
2.1.66	Resistor,R1323,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.70999998,	0.004280752	0.004280752
2.1.67	Resistor,R1325,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.70999998.	0.004280752	0.004280752
2.1.68	Resistor,R1327,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1 Power=0.40738028, Stress=0.70999998;	0.004280752	0.004280752
2.1.69	Resistor,R1344,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4, Quality=1, Temperature=1; Power=0.40738028; Stress=0.70999998;	0.004280752	0.004280752
2.1.70	Resistor,R1355,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1, Temperature=1; Power=0.40738028; Stress=0.70999998.	0.004280752	0.004280752
2.1.71	Resistor,R1363,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1; Temperature=1; Power=0.40738028, Stress=0.70999998,	0.004280752	0.004280752

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Name	Description	Quantity	P) Factors All	Failure Rate	NxFailure Rate
2.1.72	Resistor,R1375,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.70999998.	0.004280752	0.004280752
2.1.73	Resistor,R1377,0?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037. Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.70900996;	0.004280752	0.004280752
2.1.74	Resistor,R6,1K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037. Environment=4; Quality=1 Temperature=1; Power=0.40738028; Stress=0.75166363;	0.0045319516	0.0045319516
2.1.75	Resistor,R7,1K?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.75166363;	0.0045319516	0.0045319516
	Resistor,R13,1K?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4. Quality=1. Temperature=1; Power=0.40738028. Stress=0.72526231;	0.0043728924	0.0043728924
	Resistor,R49,1K?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4. Quality=1; Temperature=1; Power=0.40738028; Stress=0.72526231;	0.0043728924	0.0043728924
2.1.78	Resistor,R101,1K?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1. Power=0.40738028; Stress=0.71260393;	0.0042964516	0.0042964516
2.1.79	Resistor,R225,1K?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037. Environment=4; Quality=1. Temperature=1; Power=0.40738028; Stress=0.72526231;	0.0043728924	0.0043728924
2.1.80	Resistor,R259,1K?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037. Environment=4. Quality=1. Temperature=1. Power=0.40738028; Stress=0.72526231;	0.0043728924	0.0043728924

Analyst : N Venkata Naga Aravind.
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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2 1.81	Resistor,R260,1K?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028. Stress=0.71250393;	0.0042964518	0.0042964518
2 1.82	Resistor,R264,1K?±5 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028 Stress=0.72528231.	0.0043728924	0.0043728924
2 1.83	Resistor,R?0,2K?±1 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028. Stress=0.76851875.	0.0046335752	0.0046335752
2 1.84	Resistor,R950,1K?±1 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.7145712d3;	0.0043079606	0.0043079606
	Resistor,R951,1K?±1 % 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.7145?283,	0.0043079606	0.0043079606
	Resistor,R153,100K? ±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1, Temperature=1; Power=0.40738028 Stress=0.71135212.	0.0042889644	0.0042889644
2 1.87	Resistor,R156,100K? ±1% 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1; Temperature=1. Power=0.40738028. Stress=0.71135212;	0.0042889644	0.0042889644
2 1.88	Resistor,R152,100K? ±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4. Quality=1, Temperature=1; Power=0.40738028; Stress=0.71135212,	0.0042889644	0.0042889644
2 1.89	Resistor,R153,100K? ±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1. Power=0.40738028 Stress=0.7?017992;	0.0042818366	0.0042818366

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.90	Resistor,R164 100K? ±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4 Quality=1; Temperature=1, Power=0.40738028, Stress=0.7' 136212;	0.0042889644	0.0042889644
2.1.91	Resistor,R218,100K? ±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028 Stress=0.72732758	0.0043552241	0.0043552241
2.1.92	Resistor,R286 100K? ±1% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.71136212;	0.0042889644	0.0042889644
2.1.93	Resistor,R161,100K? ±1% 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1, Temperature=1; Power=0.40738028, Stress=0.71004498,	0.0042810291	0.0042810291
2.1.94	Resistor,R200,4.7K? ±5% 0402	1	Base Failure Rate (fpmh)=0.0037 Environment=4, Quality=1, Temperature=1; Power=0.40738025; Stress=0.71666214;	0.0043329778	0.0043329778
2.1.95	Resistor,R201,4.7K? ±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1, Temperature=1; Power=0.40738025, Stress=0.71866214;	0.0043329778	0.0043329778
2.1.96	Resistor,R211,4.7K? ±5% 0402	1	Base Failure Rate (fpmh)=0.0037, Environment=4; Quality=1, Temperature=1, Power=0.40738025; Stress=0.73933041;	0.004457592	0.004457592
2.1.97	Resistor,R243,4.7K? ±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1; Temperature=1; Power=0.40738028; Stress=0.73033041;	0.004457592	0.004457592
2.1.98	Resistor,R244,4.7K? ±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4, Quality=1, Temperature=1, Power=0.40738025; Stress=0.73933041;	0.004457592	0.004457592

Analyst : N.Venkata Naga Aravind:
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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.99	Resistor,R327,4.7K? ±5% 0402	1	Base Failure Rate (fpmh)=0.0037 Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.73933041	0.004457592	0.004457592
2.1.100	Resistor,R343,4.7K? ±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.73933041;	0.004457592	0.004457592
2.1.101	Resistor,R355,4.7K? ±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.73414379;	0.0044263205	0.0044263205
2.1.102	Resistor,R1338,4.7K ?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.73933041;	0.004457592	0.004457592
2.1.103	Resistor,R1343,4.7K ?±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.73933041;	0.004457592	0.004457592
2.1.104	Resistor,R1345,4.7K ?±5% 0402	1	Base Failure Rate (fpmh)=0.0037 Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.71266214;	0.0043329778	0.0043329778
2.1.105	Resistor,R146,4.7K? ±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.73933041;	0.004457592	0.004457592
2.1.106	Resistor,R147,4.7K? ±5% 0402	1	Base Failure Rate (fpmh)=0.0037; Environment=4; Quality=1; Temperature=1; Power=0.40738028; Stress=0.73933041;	0.004457592	0.004457592
2.1.107	Capacitor,C4.22pF±5 %,50V,NP0,0402	1	Base Failure Rate (fpmh)=0.00095999997 Environment=10; Quality=1; Temperature=1.0000001 Capacitance=0.3808067; Stress=1.001331; Circuit Resistance=1;	0.0037759906	0.0037759906

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.108	Capacitor,C19,0.01 uF±10% 100V X7R 0402	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10; Quality=1; Temperature=1.0000001 Capacitance=0.56063041; Stress=1.008; Circuit Resistance=1,	0.006593192	0.006593192
2.1.109	Capacitor,C6,0.1uF±10% 50V,X5R,0201	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10; Quality=1, Temperature=1.0000001; Capacitance=0.81283051; Stress=1.000216; Circuit Resistance=1;	0.008048607	0.008048607
2.1.110	Capacitor,C7,0.1uF±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10; Quality=1 Temperature=1.0000001; Capacitance=0.81283051; Stress=1.064 Circuit Resistance=1;	0.008562032	0.008562032
2.1.111	Capacitor,C19,1uF±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997 Environment=10; Quality=1; Temperature=1.0000001 Capacitance=1; Stress=1.064, Circuit Resistance=1.	0.010533601	0.010533601
2.1.112	Capacitor,C240,2.2uF±10% 25V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997 Environment=10; Quality=1; Temperature=1.0000001. Capacitance=1.0735395; Stress=1.0001518, Circuit Resistance=1.	0.010629654	0.010629654
2.1.113	Capacitor,C43,4.7uF±10% 50V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997. Environment=10; Quality=1; Temperature=1.0000001. Capacitance=1.1494466; Stress=1.001331, Circuit Resistance=1;	0.011394667	0.011394667
2.1.114	Capacitor,C67,10uF±10% 50V X5R 0805	1	Basic Failure Rate (fpmh)=0.00098999997 Environment=10; Quality=1; Temperature=1.0000001, Capacitance=1.2302898; Stress=1.064, Circuit Resistance=1;	0.01295916	0.01295916

Analyst : N.Venkata Naga Aravind
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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.115	Capacitor,C124 22uF ±10% 50V X5R 1206	1	Base Failure Rate (fpmh)=0.000899999997; Environment=10; Quality=1; Temperature=1.5000001; Capacitance=1.320742; Stress=1.00133; Circuit Resistance=1.	0.013092751	0.013092751
2.1.116	Capacitor,C135,47uF ±20% 10V X5R 1206	1	Base Failure Rate (fpmh)=0.000899999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1.4141283; Stress=1.1063749; Circuit Resistance=1	0.015329098	0.015329098
2.1.117	Capacitor C269 0.33 uF±10% 50V X7R,0402	1	Base Failure Rate (fpmh)=0.000899999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.90503681; Stress=1.00133; Circuit Resistance=1	0.0089717908	0.0089717908
	Capacitor,C241,2.2u F±10% 25V X5R 0402	1	Base Failure Rate (fpmh)=0.000899999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1.0735395; Stress=1.000512; Circuit Resistance=1	0.010833483	0.010833483
	Capacitor C1662 0.0 1uF±10% 100V X7R 0402	1	Base Failure Rate (fpmh)=0.000899999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.66069341 Stress=1.0005788; Circuit Resistance=1;	0.006644651	0.006644651
2.1.120	Capacitor,C145,0.22 uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.000899999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.872605651 Stress=1.001331; Circuit Resistance=1;	0.00865029S4	0.00865029S4
2.1.121	Capacitor,C220,0.22 uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.000899999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.872605651 Stress=1.001331; Circuit Resistance=1;	0.00865029S4	0.00865029S4

Analyst N.Venkata Naga Aravind
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Name	Description	Quantity	PI Factors All	Failure Rate	NxFailure Rate
2.1.122	Capacitor,C229,0 22 uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001 Capacitance=0.87260568, Stress=1.001331, Circuit Resistance=1,	0.0086502964	0.0086502964
2.1.123	Capacitor,C125,22uF ±20%50V X5R 0805	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1. Temperature=1.0000001; Capacitance=1.3207421. Stress=1.0000156; Circuit Resistance=1	0.013075551	0.013075551
2.1.124	Capacitor,C127,22uF ±20%50V X5R 0805	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1. Temperature=1.0000001; Capacitance=1.3207421. Stress=1.0000156; Circuit Resistance=1.	0.013075551	0.013075551
2.1.125	Capacitor,C1642 22uF±20%50V X5R 0805	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1. Temperature=1.0000001; Capacitance=1.3207421. Stress=1.000064; Circuit Resistance=1.	0.013076184	0.013076184
2.1.126	Capacitor,C126 22uF ±20%50V X5R 0805	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1. Temperature=1.0000001; Capacitance=1.3207421 Stress=1.0046296; Circuit Resistance=1	0.013135881	0.013135881
2.1.127	Capacitor,C46,22uF±20%50V X5R 0805	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1, Temperature=1.0000001; Capacitance=1.3207421, Stress=1.000064, Circuit Resistance=1;	0.013076184	0.013076184
2.1.128	Capacitor,C270,22uF ±20%50V X5R 0805	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10, Quality=1; Temperature=1.0000001. Capacitance=1.3207421; Stress=1.001331; Circuit Resistance=1;	0.013092751	0.013092751

Analyst : N.Venkata Naga Aravind
Compiled By :V.Jambulingam.
Approved By : R Raghika:

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.129	Capacitor,C97,10uF±10% 25V X5R 0805	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10, Quality=1, Temperature=1.0000001; Capacitance=1.2302688, Stress=1.000512; Circuit Resistance=1;	0.012185899	0.012185899
2.1.130	Capacitor,C110,10uF ±10% 25V X5R 0805	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001, Capacitance=1.2302688; Stress=1.0046296; Circuit Resistance=1,	0.012236049	0.012236049
2.1.131	Capacitor,C49,4.7uF ±10% 50V X5R 0603	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10, Quality=1; Temperature=1.0000001; Capacitance=1,1494466; Stress=1.000064; Circuit Resistance=1;	0.011380251	0.011380251
	Capacitor,C56,4.7uF ±10% 50V	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10, Quality=1, Temperature=1.0000001; Capacitance=1.1494466, Stress=1.000216; Circuit Resistance=1,	0.011386198	0.011386198
	Capacitor,C61,4.7uF ±10% 50V	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10, Quality=1 Temperature=1.0000001; Capacitance=1.1494466, Stress=1.001331, Circuit Resistance=1;	0.011394667	0.011394667
2.1.134	Capacitor,C197,4.7uF±10% 50V	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1, Temperature=1.0000001; Capacitance=1.1494466; Stress=1.001331; Circuit Resistance=1;	0.011394667	0.011394667
2.1.135	Capacitor,C199,4.7uF±10% 50V	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1.1494466; Stress=1.001331, Circuit Resistance=1.	0.011394667	0.011394667

Analyst : N.Venkata Naga Aravind
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Approved By : R.Radhika:

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.136	Capacitor,C301,4.7uF±10% 50V	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1.1464466; Stress=1.001331; Circuit Resistance=1;	0.011394667	0.011394667
2.1.137	Capacitor,C42,10uF±10% 25V X5R 0805	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1.2302688; Stress=1.000512; Circuit Resistance=1	0.012185899	0.012185899
2.1.138	Capacitor,C209,10uF±10% 25V X5R 0805	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1.2302688; Stress=1.5119996; Circuit Resistance=1;	0.018415647	0.018415647
	Capacitor,C213,10uF±10% 25V X5R 0805	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1.2302688; Stress=1.5119996; Circuit Resistance=1	0.018415647	0.018415647
	Capacitor,C218,10uF±10% 25V X5R 0805	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1.2302688; Stress=1.5119996; Circuit Resistance=1	0.018415647	0.018415647
2.1.141	Capacitor,C266,10uF±10% 25V X5R 0805	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1.2302688; Stress=1.010648; Circuit Resistance=1;	0.012309351	0.012309351
2.1.142	Capacitor,C57,1uF±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1; Stress=1.000216; Circuit Resistance=1;	0.0099021392	0.0099021392

Analyst : N.Venkata Naga Aravind.
Compiled By : V.Jambulingam.
Approved By : R Radhika.

Name	Description	Quantity	Pi Factors All	Failure Rate	NrFailure Rate
2.1.143	Capacitor,C62,1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10; Quality=1, Temperature=1.0000001; Capacitance=1; Stress=1.001331; Circuit Resistance=1;	0.0099131782	0.0099131782
2.1.144	Capacitor,C65,1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1; Stress=1.000019; Circuit Resistance=1;	0.0099001881	0.0099001881
2.1.145	Capacitor,C69,1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997 Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1; Stress=1.000216; Circuit Resistance=1	0.0099021392	0.0099021392
2.1.146	Capacitor,C73,1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997 Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1; Stress=1.001331; Circuit Resistance=1;	0.0099131782	0.0099131782
2.1.147	Capacitor,C142,1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997 Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1; Stress=1.001331; Circuit Resistance=1;	0.0099131782	0.0099131782
	Capacitor,C145,1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997 Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1; Stress=1.001331; Circuit Resistance=1;	0.0099131782	0.0099131782
2.1.149	Capacitor,C155,1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997 Environment=10; Quality=1; Temperature=1.0000001; Capacitance=1; Stress=1.0040290; Circuit Resistance=1.	0.0099458341	0.0099458341
2.1.150	Capacitor,C249,1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1 Temperature=1.0000001; Capacitance=1.3207421, Stress=1.001331; Circuit Resistance=1,	0.013092751	0.013092751

Analyst : N.Venkata Naga Aravind.
Compiled By :V.Jambulingam.
Approved By : R.Radhika.

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.151	Capacitor,C134,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00096999997; Environment=10; Quality=1; Temperature=1.0000001, Capacitance=0.81283051, Stress=1.001331 Circuit Resistance=1;	0.0080577331	0.0080577331
2.1.152	Capacitor,C141,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00096999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.001331 Circuit Resistance=1;	0.0080577331	0.0080577331
2.1.153	Capacitor,C142,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00096999997; Environment=10, Quality=1; Temperature=1.0000001, Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1.	0.0080577331	0.0080577331
	Capacitor,C144,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00096999997; Environment=10; Quality=1; Temperature=1.0000001 Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1	0.0080577331	0.0080577331
	Capacitor,C157,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00096999997; Environment=10; Quality=1; Temperature=1.0000001 Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.0080577331	0.0080577331
2.1.156	Capacitor,C160,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00096999997, Environment=10; Quality=1; Temperature=1.0000001 Capacitance=0.81283051; Stress=1.0046296, Circuit Resistance=1;	0.0080542776	0.0080542776
2.1.157	Capacitor,C162,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00096999997, Environment=10; Quality=1; Temperature=1.0000001 Capacitance=0.81283051; Stress=1.064; Circuit Resistance=1;	0.0085920321	0.0085920321

Analyst : N.Venkata Naga Aravind
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Name	Description	Quantity	Pi Factors All	Failure Rate	NrFailure Rate
2.1.158	Capacitor,C181 0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997, Environment=1C, Quality=1; Temperature=1.0000001, Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1,	0.0080577331	0.0080577331
2.1.159	Capacitor,C183 0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997, Environment=1C, Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1	0.0080577331	0.0080577331
2.1.160	Capacitor,C185 0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997 Environment=1C, Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.0080577331	0.0080577331
	Capacitor,C187 0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997, Environment=1C, Quality=1; Temperature=1.0000001, Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1	0.0080577331	0.0080577331
	Capacitor,C189,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997 Environment=1C, Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.001331, Circuit Resistance=1,	0.0080577331	0.0080577331
2.1.163	Capacitor,C196,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=1C; Quality=1, Temperature=1.0000001; Capacitance=0.81283051, Stress=1.001331, Circuit Resistance=1,	0.0080577331	0.0080577331
2.1.164	Capacitor,C195,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=1C, Quality=1, Temperature=1.0000001, Capacitance=0.81283051, Stress=1.001331, Circuit Resistance=1;	0.0080577331	0.0080577331

Analyst: N Venkata Naga Aravind
Compiled By :V.Jambulingam
Approved By : R Radhika.

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.165	Capacitor,C206,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00096999997 Environment=10, Quality=1; Temperature=1.0000001 Capacitance=0.81283051, Stress=1.0046296, Circuit Resistance=1;	0.0080842776	0.0080842776
2.1.166	Capacitor,C210,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051 Stress=1.064; Circuit Resistance=1;	0.0085620321	0.0085620321
2.1.167	Capacitor,C211,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10; Quality=1. Temperature=1.0000001; Capacitance=0.81283051. Stress=1.064; Circuit Resistance=1;	0.0085620321	0.0085620321
2.1.168	Capacitor,C212,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10 Quality=1 Temperature=1.0000001; Capacitance=0.81283051; Stress=1.064 Circuit Resistance=1;	0.0085620321	0.0085620321
2.1.169	Capacitor,C215,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00096999997, Environment=10; Quality=1. Temperature=1.0000001. Capacitance=0.81283051: Stress=1.001331; Circuit Resistance=1	0.0080577331	0.0080577331
2.1.170	Capacitor C210,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00096999997 Environment=10, Quality=1; Temperature=1.0000001. Capacitance=0.81283051; Stress=1.064; Circuit Resistance=1;	0.0085620321	0.0085620321
2.1.171	Capacitor,C225,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00096999997; Environment=10, Quality=1; Temperature=1.0000001 Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1.	0.0080577331	0.0080577331

Analyst : N.Venkata Naga Aravind:
Compiled By :V.Jambulingam:
Approved By :S.Radhika:

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.172	Capacitor,C236,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.0080577331	0.0080577331
2.1.173	Capacitor,C232,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.0080577331	0.0080577331
2.1.174	Capacitor,C235,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.000364; Circuit Resistance=1;	0.0080475379	0.0080475379
2.1.175	Capacitor,C237,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.0080577331	0.0080577331
2.1.176	Capacitor,C239,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0005788; Circuit Resistance=1;	0.0080316804	0.0080316804
2.1.177	Capacitor,C260,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.0080577331	0.0080577331
2.1.178	Capacitor,C233,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.0080577331	0.0080577331

Analyst : N Venkata Naga Aravind
Compiled By : V.Jambulingam
Approved By : R Radhika

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Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2 1.179	Capacitor,C287,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00099999997, Environment=10; Quality=1, Temperature=1.0000001; Capacitance=0.81283051, Stress=1.001331, Circuit Resistance=1	0.0080577331	0.0080577331
2.1.180	Capacitor,C288,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00099999997, Environment=10; Quality=1; Temperature=1.0000001, Capacitance=0.81283051; Stress=1.000215; Circuit Resistance=1.	0.0080467607	0.0080467607
2.1.181	Capacitor,C334,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00099999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051, Stress=1.0000128; Circuit Resistance=1,	0.0080471253	0.0080471253
	Capacitor,C847,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00099999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.0080577331	0.0080577331
[illegible]	Capacitor,C1631,0.1 uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00099999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051, Stress=1.001331; Circuit Resistance=1,	0.0080577331	0.0080577331
2.1.184	Capacitor,C85,0.1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00099999997; Environment=10; Quality=1, Temperature=1.0000001; Capacitance=0.81283051, Stress=1.000064, Circuit Resistance=1;	0.0080475379	0.0080475379
2.1.185	Capacitor,C271,0.1u F ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.00099999997 Environment=10; Quality=1; Temperature=1.0000001, Capacitance=0.81283051, Stress=1.001331; Circuit Resistance=1.	0.0080577331	0.0080577331

Analyst : N.Venkata Naga Aravind:
Compiled By :V.Jambulingam
Approved By : R.Radhika:

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.155	Capacitor,C300,0.1uF ±10% 50V X5R 0402	1	Base Failure Rate (fpmh)=0.000986999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.0080577331	0.0080577331
2.1.157	Capacitor,C88,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.000986999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.0080475379	0.0080475379
2.1.158	Capacitor,C89,0.1uF ±10% 50V X5R0201	1	Base Failure Rate (fpmh)=0.000986999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.0080475379	0.0080475379
2.1.159	Capacitor,C[illegible]0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.000986999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0005758; Circuit Resistance=1;	0.0080516804	0.0080516804
2.1.160	Capacitor,C[illegible]2,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.000986999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0005758; Circuit Resistance=1;	0.0080516804	0.0080516804
2.1.191	Capacitor,C646,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.000986999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1.	0.0080475379	0.0080475379
2.1.192	Capacitor,C20,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.000986999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0000756; Circuit Resistance=1.	0.0080471486	0.0080471486

Analyst : N.Venkata Naga Aravind
Compiled By .V.Jambulingam.
Approved By . R.Radhika.

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
P 1 193	Capacitor,C21,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1, Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0000156, Circuit Resistance=1;	0.0080471486	0.0080471486
2 1.194	Capacitor,C22,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997, Environment=10; Quality=1, Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1;	0.0080471486	0.0080471486
2.1.195	Capacitor,C23,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1.	0.0080471486	0.0080471486
	Capacitor,C24,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1;	0.0080471486	0.0080471486
	Capacitor,C25,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051, Stress=1.001331; Circuit Resistance=1,	0.0080577331	0.0080577331
2.1.198	Capacitor,C26,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0000156, Circuit Resistance=1;	0.0080471486	0.0080471486
2.1.199	Capacitor,C27,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051. Stress=1.0000156; Circuit Resistance=1;	0.0080471486	0.0080471486

Analyst : N.Venkata Naga Aravind
Compiled By :V.Jambulingam.
Approved By : R.Radhika

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.200	Capacitor C29,0.1uF ±10% 50V X5R 0201	1	Base Failure Rate (fpmh)=0.000989999997 Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1;	0.00804714866	0.00804714866
2.1.201	Capacitor,C30,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.000989999997 Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1;	0.00804714866	0.00804714866
2.1.202	Capacitor,C31,0.1uF ±10% 50V,X5R 0201	1	Base Failure Rate (fpmh)=0.000989999997. Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1;	0.00804714866	0.00804714866
2.1.203	Capacitor,C32,0.1uF ±10% 50V,X5R,0201	1	Base Failure Rate (fpmh)=0.000989999997. Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1;	0.00804714866	0.00804714866
2.1.204	Capacitor,C33,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.000989999997. Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1;	0.00804714866	0.00804714866
2.1.205	Capacitor,C34,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.000989999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0000156; Circuit Resistance=1;	0.00804714866	0.00804714866
2.1.206	Capacitor,C35,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.000989999997. Environment=10; Quality=1; Temperature=1.0000001 Capacitance=0.81283051, Stress=1.0000156; Circuit Resistance=1;	0.00804714866	0.00804714866

Analyst : N.Venkata Naga Aravind
Compiled By : V.Jamuna Rani
Approved By : R.Radhika.

Name	Description	Quantity	Pi Factors All	Failure Rate	NrFailure Rate
2.1.207	Capacitor,C36,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0000156, Circuit Resistance=1;	0.0080471486	0.0080471486
2.1.208	Capacitor,C37,0.1uF ±10% 50V,X5R,0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0000156, Circuit Resistance=1.	0.0080471486	0.0080471486
2.1.209	Capacitor,C38,0.1uF ±10%,50V,X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.0000156, Circuit Resistance=1.	0.0080471486	0.0080471486
	Capacitor,C39,0.1uF ±10% 50V,X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051, Stress=1.0000156; Circuit Resistance=1	0.0080471486	0.0080471486
2.1.211	Capacitor,C40,0.1uF ±10%,50V,X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1. Temperature=1.0000001; Capacitance=0.81283051, Stress=1.0000156; Circuit Resistance=1.	0.0080471486	0.0080471486
2.1.212	Capacitor,C41,0.1uF ±10% 50V,X5R 0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051 Stress=1.0000156; Circuit Resistance=1,	0.0080471486	0.0080471486
2.1.213	Capacitor,C44,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1, Temperature=1.0000001; Capacitance=0.81283051. Stress=1.000084, Circuit Resistance=1;	0.0080475379	0.0080475379

Analyst : N.Venkata Naga Aravind
Compiled By : V.Jambulingam.
Approved By : R Radhika

Name	Description	Quantity	Pi Factors A0	Failure Rate	NxFailure Rate
2.1.214	Capacitor,C45,0.1uF ±10% 50V,X5R,0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.000064, Circuit Resistance=1;	0.0080475379	0.0080475379
2.1.215	Capacitor,C46,0.1uF ±10% 50V,X5R,0201	1	Base Failure Rate (fpmh)=0.00098999997 Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.001331; Circuit Resistance=1;	0.0080577331	0.0080577331
2.1.216	Capacitor,C47,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.00098999997 Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.0080475379	0.0080475379
2.1.217	Capacitor,C48,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.0080475379	0.0080475379
2.1.218	Capacitor,C50,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.0080475379	0.0080475379
2.1.219	Capacitor,C51,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.0080475379	0.0080475379
2.1.220	Capacitor,C52,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001; Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1;	0.0080475379	0.0080475379

Analyst: N.Venkata Naga Aravind
Compiled By: V.Jambulingam
Approved By: R.Radhika

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.221	Capacitor,C52,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10, Quality=1; Temperature=1.0000001, Capacitance=0.81283051; Stress=1.000064; Circuit Resistance=1,	0.0080475379	0.0080475379
2.1.222	Capacitor,C54 0.1uF ±10%,50V X5R,0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10, Quality=1; Temperature=1.0000001, Capacitance=0.81283051; Stress=1.000064, Circuit Resistance=1;	0.0080475379	0.0080475379
2.1.223	Capacitor,C55,0.1uF ±10%,50V,X5R,0201	1	Base Failure Rate (fpmh)=0.00098999997; Environment=10; Quality=1; Temperature=1.0000001, Capacitance=0.81283051; Stress=1.000064, Circuit Resistance=1;	0.0080475379	0.0080475379
	Diode, Low Frequency,D7,TVS,8 ,15V,1500W,SMC	1	Base Failure Rate (fpmh)=0.0013; Environment=6; Quality=5.5; Temperature=1.9200621; Stress=1 Contact Form=2;	0.15474132	0.15474132
	Diode, High Frequency,D6,3.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER	1	Base Failure Rate (fpmh)=0.027000001; Environment=2; Quality=0; Temperature=1.5576037; Application=1; Power=1;	0	0
2.1.226	Diode, Low Frequency,D111,Thy ristors Solid Protection Device Bidirectional transient voltage suppressors	1	Base Failure Rate (fpmh)=0.0013 Environment=6; Quality=5.5; Temperature=1.9200621; Stress=1; Contact Form=2,	0.15474132	0.15474132

Analyst : N.Venkata Naga Aravind
Compiled By :V.Jambulingam:
Approved By : R.Rachika:

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.227	Diode, Low Frequency,D112,Thyristors Solid Protection Device Bidirectional transient voltage suppressors	1	Base Failure Rate (fpmh)=0.0013, Environment=6; Quality=5.5; Temperature=1.9200621; Stress=1; Contact Form=2;	0.16474132	0.16474132
2.1.225	Diode, Low Frequency,D10,High Property Device for Surge & ESD	1	Base Failure Rate (fpmh)=0.0013, Environment=6; Quality=5.5; Temperature=1.9200621; Stress=1 Contact Form=1;	0.082370661	0.082370661
2.1.229	Diode, Low Frequency,D11,High Property Device for Surge & ESD	1	Base Failure Rate (fpmh)=0.0013, Environment=6; Quality=5.5; Temperature=1.9200621; Stress=1. Contact Form=1;	0.082370661	0.082370661
2.1.230	Diode, High Frequency,D9,Schottky Barrier Diode	1	Base Failure Rate (fpmh)=0.027000001; Environment=2; Quality=2.5; Temperature=1.5576937; Application=1; Power=1;	0.21028864	0.21028864
2.1.231	Quartz Crystal,X1,24MHz,SMD 3.2*2.5mm,20pF ±20 PPM	1	Base Failure Rate (fpmh)=0.027001753; Environment=3; Quality=1;	0.08100526	0.08100526
2.1.232	Quartz Crystal,X2,32.768KHz,12.5pF,±20PPM,3.2*1.5,SMD	1	Base Failure Rate (fpmh)=0.0050223878; Environment=3; Quality=1;	0.017767163	0.017767163
2.1.233	Connector, General,J2,Conn, B2C,TB, Male, 1x3. 1.25mm, SMD	1	Base Failure Rate (fpmh)=0.046, Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.0021757,	0.18440087	0.18440087

Analyst: N.Venkata Naga Aravind
Compiled By :V.Jambulingam:
Approved By : R.Radhika:

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.234	Connector, General,J6,Conn, B2C,TB, Male, 1x5, 1.25mm, SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.0001109;	0.18402204	0.18402204
2.1.235	Connector, General,J18,Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2, Mating/Unmating=2; Temperature=1.0021787.	0.18440087	0.18440087
2.1.236	Connector, General,J29,Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1	Base Failure Rate (fpmh)=0.046, Environment=1, Quality=2; Mating/Unmating=2; Temperature=1.0021787.	0.18440087	0.18440087
2.1.237	Connector, General,J1,Conn, B2C,TB, Male, 1x4, 1.25mm, SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.0021787;	0.18440087	0.18440087
	Connector, General,J12,Conn, B2C,TB, Male, 1x4,1.25mm, SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.0021787,	0.18440087	0.18440087
2.1.239	Connector, General,J8,Conn, B2C, Male, 1x2, 1.25mm, ST, SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.0001553;	0.18402858	0.18402858
2.1.240	Connector, General,J10,Conn, B2C, Male, 1x2, 1.25mm, ST, SMD	1	Base Failure Rate (fpmh)=0.046, Environment=1; Quality=2, Mating/Unmating=2; Temperature=1.0021787;	0.18440087	0.18440087
2.1.241	Connector, General,J3,Conn, B2C, Male, 1x10, 1.25mm, ST, SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.0021787;	0.18440087	0.18440087

Analyst : N.Venkata Naga Aravind:
Compiled By :V.Jambulingam:
Approved By : R.Radhika:

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.242	Connector, General,J7,Conn, B2C, Male, 1x12, 1.25mm, ST, SMD	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2; Mating/Unmating=2, Temperature=1.0003997;	0.16407355	0.16407355
2.1.243	Connector, General,J5,0.5mm FFC/FPC DUAL CONTACT SIDE CONNECTOR	1	Base Failure Rate (fpmh)=0.046; Environment=1; Quality=2; Mating/Unmating=2; Temperature=1.0021787;	0.16440087	0.16440087
2.1.244	Micro, Linear,U18,DIFFERENTIAL BUS TRANSCEIVERS	1	Environment=2; Quality=1; Learning=1, Temperature=0.4913581; Die Complexity Rate=0.0099999998; Package Rate=0.0026454236;	0.010204428	0.010204428
2.1.245	Micro, Linear,U51, 1A high-efficiency synchronous step-down converter	1	Environment=2, Quality=1; Learning=1; Temperature=0.4913551, Die Complexity Rate=0.0099999998; Package Rate=0.001592376.	0.0080983331	0.0080983331
2.1.246	Micro, Linear,U60,300-mA, Low-Dropout Regulator	1	Environment=2, Quality=1, Learning=1; Temperature=0.4913551; Die Complexity Rate=0.0099999998; Package Rate=0.001592376.	0.0080983331	0.0080983331
2.1.247	Micro, Linear,U21 2A high-efficiency synchronous step-down converter	1	Environment=2; Quality=1, Learning=1; Temperature=0.4913581; Die Complexity Rate=0.0099999998; Package Rate=0.001592376;	0.0080983331	0.0080983331
2.1.248	Micro, Linear,U50.2A high-efficiency synchronous step-down converter	1	Environment=2; Quality=1; Learning=1, Temperature=0.4913581 Die Complexity Rate=0.0099999998; Package Rate=0.001592376;	0.0080983331	0.0080983331

Analyst : N Venkata Naga Aravind
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Approved By : R.Radhika.

Name	Description	Quantity	Pi Factors All	Failure Rate	NxFailure Rate
2.1.249	Micro, Linear,U51,2A high-efficiency synchronous step-down converter	1	Environment=2; Quality=1; Learning=1; Temperature=0.49135 81; Die Complexity Rate=0.0099999998; Package Rate=0.001592376;	0.008098333	0.0080983331
2.1.250	Micro. Linear,U20,2A synchronous step-down converter	1	Environment=2; Quality=1; Learning=1; Temperature=0.4913581 Die Complexity Rate=0.0099999998; Package Rate=0.0019389268;	0.0087914346	0.0087914346
2.1.251	Micro, Linear U9 2-Bit, 2-Supply, Bus Transceiver with Configurable Level-ShiftingTransla tion and 3-State Outputs and	1	Environment=2; Quality=1; Learning=1; Temperature=0.4913581; Die Complexity Rate=0.0099999998; Package Rate=0.0026454236;	0.010204428	0.010204428
2.1.252	Micro, Linear,U34,microproc essor I?PI supervisory circuits	1	Environment=2; Quality=1; Learning=1 Temperature=0.4913581; Die Complexity Rate=0.0099999998; Package Rate=0.0012513617;	0.0074163042	0.0074163042
2.1.253	Micro. Linear,U19,2A synchronous step-down converter	1	Environment=2; Quality=1; Learning=1; Temperature=0.4913581; Die Complexity Rate=0.0099999998; Package Rate=0.0019389268;	0.0087914346	0.0087914346
2.1.254	Micro. Digital IC,SERIAL NAND, 2Gb,WSON8	1	Environment=2; Quality=1; Learning=1; Temperature=0.23566295; Die Complexity Rate=0.0099999998; Package Rate=0.0026454236;	0.0076474766	0.0076474766
2.1.255	Micro, Not EEPROM,U15,IC.ME M,4Gb,1200MHz, DDR4,BGA96	1	Environment=2; Quality=1; Learning=1; Temperature=0.43472439; Die Complexity Rate=0.0099999998; Package Rate=0.0382201249;	0.0909629741	0.0909629741

Analyst : N Venkata Naga Aravind:
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Approved By : R.Padmaja:

Name	Description	Quantity	Pi Factors A0	Failure Rate	NxFailure Rate
1.1.256	External,Digital,U1,IC ,CV28S65M. Ambarella vision processor,VFBGA-228_C 65_11*12mm	1	Base Failure Rate (fpmh)=0.01074; Temperature=1;	0.01074	0.01074
1.1.257	External,U25,300-mA , Low-Dropout Regulator	1	Base Failure Rate (fpmh)=0.063277997; Temperature=1;	0.063277997	0.063277997
1.1.258	Micrn, Linear,U54,10/100Mbps single-port Physical Layer transceiver	1	Environment=2; Quality=1; Learning=1; Temperature=0.4913581; Die Complexity Rate=0.0099999998; Package Rate=0.010235021;	0.025383623	0.025383623

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Compiled By : V Jambulingam
Approved By : R.Radhika

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Annexure- IV

PARAMETERS REPORT

(Temperature 25℃)

MIL-HDBK-217F PARAMETERS REPORT

Name: SC-IND22XP-I(Z)(S)
Failure Rate: 7.2122492
MTBF: 138510.56

Name	Description	Quantity	Physical Parameters All	Application Parameters All
1	Block,ImageSensor IMX335	1	QUALM1=Commercial or Unknown,QUALQS=Jan,QUALRS=Nonestablished Reliab,QUALCR=Nonestablished Reliab,QUALCO=Mil Spec,QUALRY=Class M,QUALSS=Mil Spec,QUALSA=High Quality Port,QUALOT=Mil Spec	QUAN=1,RESYM=Non-Repairable ENVI=Ground,fixed,CONN=Reflow Solder MTTR=0,NOST=0,TEMP=25 VSTRESS=0.80000001,CSTRESS=0.69999999 PSTRESS=0.75,ADJF=1,SM=1,SM=1,
	IA, Surface Mount Tech	1	LEAD=Leadless,BTCE=7,PTCE=7,SOLD=500,SOJH=5 THJC=45	QUAN=1,ENVI=Ground,fixed,CYRA=1,SOLC=6780,POWR=0.1,ADJF=1,
	Resistor,R1,4.99K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625 PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,POWR=0.1,PSTRESS=0.02,APPPOWER=0.00125,CONN=Reflow Solder ADJF=1,SM=1,SM=1,
1.1.2	Resistor,R2,4.99K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625 PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,POWR=0.1,PSTRESS=0.02,APPPOWER=0.00125,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.3	Resistor,R71,10K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,POWR=0.1,PSTRESS=0.000256,APPPOWER=1.6e-5,CONN=Reflow Solder ADJF=1,SM=1,SM=1,
1.1.4	Resistor,R73,10K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,POWR=0.1,PSTRESS=0.000256,APPPOWER=1.6e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,

Analyst : N.Venkata Naga Aravind
Compiled By : V.Jambulingam
Approved By : R.Radhika.

Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.5	Resistor,R73,10K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.000256,APPPOW ER=1.6e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.6	Resistor,R182,10K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.017424,APPPOW ER=0.001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.7	Resistor,R191,10K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.017424,APPPOW ER=0.001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.8	Resistor,R197,10K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.017424,APPPOW ER=0.001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.9	Resistor,R202,10K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.017424,APPPOW ER=0.001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1
1.1.10	Resistor,R201,10K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.017424,APPPOW ER=0.001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.11	Resistor,RT19,4.7K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.011024,APPPOW ER=0.00068900001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.12	Resistor,R303,2K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.086400002,APPP OWER=0.0054000001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.13	Resistor,R305,2K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.086400002,APPP OWER=0.0054000001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.14	Resistor,RT21.1K?±1 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.01296,APPPOWE R=0.00081,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.15	Resistor,RT23.1K?±1 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.01296,APPPOWE R=0.00081,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.16	Resistor,RT15.1K?±1 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.05184,APPPOWE R=0.00324,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.17	Resistor,RT16.1K?±1 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.05184,APPPOWE R=0.00324,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.18	Resistor,R1.0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.19	Resistor,R410.0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.20	Resistor,R420.0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.21	Resistor,R421.0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.22	Resistor,R422.0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.23	Resistor,R423,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.24	Resistor,R424,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.0096800001,APP POWER=0,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.25	Resistor,R425,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.26	Resistor,R194,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.27	Resistor,R?2,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1
1.1.28	Resistor,R?17,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1
1.1.29	Resistor,R?18,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.30	Resistor,FB1,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.31	Resistor,FB2,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
1 1 32	Resistor,FB3,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1
1 1 33	Resistor,FB4,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1
1 1 34	Resistor,BL1,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1
1 1 35	Resistor,R2,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1
1 1 36	Resistor,R3,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.009630000001,APP POWER=0,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
	Resistor,R210,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1 1 38	Resistor,R211,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1 1 39	Resistor,R212,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1 1 40	Resistor,R213,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.41	Resistor,R214,07±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P DWR=0.1,PSTRESS=0,APPPOWER=0.C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.42	Resistor,R215,07±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P DWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.43	Resistor,R216,07±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P DWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.44	Resistor,R219,07±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P DWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
1.1.45	Capacitor,C65,22pF±5% 50V NP0 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=2.2e-5,RATVOLT=50, PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.46	Capacitor,C66,22pF±5% 50V NP0 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=2.2e-5,RATVOLT=50, PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1
1.1.47	Capacitor,CT2,1000pF±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.001,RATVOLT=50, PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=1.8,VSTRESS=0.03599 9998,CRES=0.60000002,ADJF=1,SM=1,S M=1,
1.1.48	Capacitor,C25,0.22uF±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.22,RATVOLT=50,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.49	Capacitor,C1,1uF±10 % 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=1,RATVOLT=50,PINS =2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.50	Capacitor,C28,1uF±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1
1.1.51	Capacitor,C350,2.2uF±10% 50V X5R 0603	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=2.2,RATVOLT=50,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.52	Capacitor,C352,2.2uF±10% 50V X5R 0603	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=2.2,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.53	Capacitor,C357,2.2uF±10% 50V X5R 0603	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=2.2,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.54	Capacitor,C2,10uF±10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=10,RATVOLT=35,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.094285712,CRES=0.60000002,ADJF=1,SM=1,SM=1.
1.1.55	Capacitor,C4,10uF±10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=10,RATVOLT=35,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=5,VSTRESS=0.14285715,CRES=0.60000002,ADJF=1,SM=1,SM=1.
1.1.56	Capacitor,C5,10uF±10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=10,RATVOLT=35,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=5,VSTRESS=0.14285715,CRES=0.60000002,ADJF=1,SM=1,SM=1.
1.1.57	Capacitor,C10,10uF±10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=10,RATVOLT=35,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=1.8,VSTRESS=0.051428571,CRES=0.60000002,ADJF=1,SM=1,SM=1.

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.58	Capacitor,C19,10uF± 10%,35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=5,VSTRESS=0.742857 5,CRES=0.60000002,ADJF=1,SM=1
1.1.59	Capacitor,C15,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.03428 5717,CRES=0.60000002,ADJF=1,SM=1,S M=1,
1.1.60	Capacitor,C22,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.03428 5717,CRES=0.60000002,ADJF=1,SM=1,S M=1,
1.1.61	Capacitor,C25,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.03428 5717,CRES=0.60000002,ADJF=1,SM=1,S M=1,
1.1.62	Capacitor,C30,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=5,VSTRESS=0.085714 288,CRES=0.60000002,ADJF=1,SM=1,SM= 1,
1.1.63	Capacitor,C44,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0 .082857147,CRES=0.60000002,ADJF=1,S M=1,SM=1,
1.1.64	Capacitor,C45,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0 .082857147,CRES=0.60000002,ADJF=1,S M=1,SM=1,

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1.1.65	Capacitor,C74,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.09428 5712,CRES=0.60000002,ADJF=1,SM=1,S M=1,
1.1.66	Capacitor,C76,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.03428 5717,CRES=0.60000002,ADJF=1,SM=1,S M=1,
1.1.67	Capacitor,C78,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.09428 5712,CRES=0.60000002,ADJF=1,SM=1,S M=1,
	Capacitor,C85,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.09428 5712,CRES=0.60000002,ADJF=1,SM=1,S M=1,
	Capacitor,C92,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=5,VSTRESS=0.1428571 5,CRES=0.60000002,ADJF=1,SM=1,SM=1 ,
1.1.70	Capacitor,C98,10uF± 10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0 .08285714,CRES=0.60000002,ADJF=1,S M=1,SM=1,
1.1.71	Capacitor,C101,10uF ±10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=1.8,VSTRESS=0.05142 8571,CRES=0.60000002,ADJF=1,SM=1,S M=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.72	Capacitor,C368,10uF ±10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder APPVOLT=5,VSTRESS=0.1428571 5,CRES=0.60000002,ADJF=1,SM=1,SM=1 ,
1.1.73	Capacitor,C208,10uF ±10% 35V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=35,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=5,VSTRESS=0.142857 5,CRES=0.60000002,ADJF=1,SM=1,SM=1 ,
1.1.74	Capacitor,C74,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,C RES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.75	Capacitor,C76,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,C RES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.76	Capacitor,C78,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,C RES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.77	Capacitor,C79,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0 .058000002,CRES=0.60000002,ADJF=1,S M=1,SM=1,
1.1.78	Capacitor,C20,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,C RES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.79	Capacitor,C21,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0 .058000002,CRES=0.60000002,ADJF=1,S M=1,SM=1,

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Compiled By : V.Jambulingam
Approved By : R Radhika

Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.80	Capacitor,C23,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.81	Capacitor,C24,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.82	Capacitor,C26,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.83	Capacitor,C27,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.84	Capacitor,C31,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0.058000002,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.85	Capacitor,C32,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0.058000002,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.86	CapacitorC33,0.1uF± 10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0.058000002,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.87	CapacitorC34,0.1uF± 10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0.058000002,CRES=0.60000002,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
1 1.88	CapacitorC35,0.1uF± 10% 50V X7R 0402	1	STYLCR=Ceramic,General ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0 .058000002,CRES=0.60000002,ADJF=1,SM=1,SM=1
1 1.89	CapacitorC36,0.1uF± 10% 50V X7R 0402	1	STYLCR=Ceramic General ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=1.8,VSTRESS=0.03599 9998,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1 1.90	Capacitor C37,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=1.8,VSTRESS=0.03599 9998,CRES=0.60000002,ADJF=1,SM=1,SM=1.
	Capacitor C38,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic General ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,C RES=0.60000002,ADJF=1,SM=1,SM=1.
	Capacitor C39,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,C RES=0.60000002,ADJF=1,SM=1,SM=1.
1 1.93	Capacitor C40,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0 .059000002,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1 1.94	Capacitor,C41,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,C RES=0.60000002,ADJF=1,SM=1,SM=1,
1 1.95	Capacitor,C42,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.055,C RES=0.60000002,ADJF=1,SM=1,SM=1.

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.96	Capacitor,C45,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.97	Capacitor,C45,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0.058000002,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.98	Capacitor,C46,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.99	Capacitor,C49,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=2.9000001,VSTRESS=0.058000002,CRES=0.60000002,ADJF=1,SM=1,SM=1,
1.1.100	Capacitor,C75,0.1uF ±10% 50V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=2.3,VSTRESS=0.066,CRES=0.50000002,ADJF=1,SM=1,SM=1,
1.1.101	Diode, Low Frequency,D1,Schottky Barrier Diode	1	CONSLD=Metallurgically Bonded,QUALDS=Lower,NUMS=1,PINS=2,THCA=50,THJC=70,RATP=0.099999997,RATVOLT=30,RATVOLT=150,RATVOLT=0,	QUAN=1,APPLLD=Power Rectifier/Schottky,ENVI=Ground,fixed,JTMP=45,MODE=User Defined Junct Temp,TEMP=25,CONN=Reflow Solder,CTMP=35,POWR=0.1,VSTRESS=2.3333332e-5,APPVOLT=0.00699999988,ADJF=1,SM=1,SM=1,
1.1.102	Quartz Crystal,X2,24MHz,SMD 3.2*2.5mm,20pF,±20 PPM	1	QUALOT=Mil Spec,FREQOC=24,RATVOLT=0,PINS=4,	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,APPVOLT=3.3,ADJF=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.103	Connector, General,J2,Conn B2C,TB Male, 1x2, 1.25mm SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=2,RATCURR=0.5,RTMP=105	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=25,TMPR=0.11900133,AMPS=0,ADJF=1,SM=1,SM=1,
1.1.104	Connector, General,J5,Conn, B2C,TB Male, 1x2, 1.25mm SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=2,RATCURR=0.5,RTMP=105	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=25,TMPR=0.00605978634,AMPS=0.1,ADJF=1,SM=1,SM=1,
1.1.105	Connector, General,J1,Conn, B2C,TB Male, 1x4, 1.25mm, SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=4,RATCURR=0.5,RTMP=105,	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=25,TMPR=0.11900133,AMPS=0,ADJF=1,SM=1,SM=1
1.1.106	Connector General,J5,Conn, R2C,TB Male, 1x8,1.25mm, SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=8,RATCURR=0.5,RTMP=105	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=25,TMPR=0.11900133,AMPS=0,ADJF=1,SM=1,SM=1
1.1.107	Connector, General,J3,0.5mm FFC/FPC DUAL CONTACT SIDE CONNECTOR	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=50,RATCURR=0.5,RTMP=105,	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=25,TMPR=0.11900133,AMPS=0,ADJF=1,SM=1,SM=1
1.1.108	Coil,L4,Power Inductor 4.7uH,20%,2.0A,SMD	1	CONSCO=Fixed,QUALCO=Mil Spec,PINS=2,RADA=2,RTMP=125,RATVOLT=220,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,TMPR=0,POWL=0,OVLT=110,ADJF=1,SM=1,SM=1
1.1.109	Coil,L22,Power Inductor 4.7uH,20%,2.0A,SMD	1	CONSCO=Fixed,QUALCO=Mil Spec,PINS=2,RADA=2,RTMP=125,RATVOLT=220,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,TMPR=6.25,POWL=0,OVLT=110,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1.110	Coil,L1,Power inductor, 2.2uH,20%,1.5A,SMD	1	CONSCO=Fixed,QUALCO=Mil Spec,PINS=2,RADA=1.5,RTMP=125,RATVOLT=220,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,TMPR=10,POWL=0,OVLT=110,ADJF=1,SM=1,SM=1,
1.1.111	Coil,L5,Power inductor, 2.2uH,20%,1.5A,SMD	1	CONSCO=Fixed,QUALCO=Mil Spec,PINS=2,RADA=1.5,RTMP=125,RATVOLT=220,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,TMPR=10,POWL=0,OVLT=110,ADJF=1,SM=1,SM=1,
1.1.112	Coil,L6,Power inductor, 2.2uH,20%,1.5A,SMD	1	CONSCO=Fixed,QUALCO=Mil Spec,PINS=2,RADA=1.5,RTMP=125,RATVOLT=220,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,TMPR=10,POWL=0,OVLT=110,ADJF=1,SM=1,SM=1,
1.1.113	Coil,L7,Power inductor, 2.2uH,20%,1.5A,SMD	1	CONSCO=Fixed,QUALCO=Mil Spec,PINS=2,RADA=1.5,RTMP=125,RATVOLT=220,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,TMPR=10,POWL=0,OVLT=110,ADJF=1,SM=1,SM=1,
1.1.114	Coil,L24,Power inductor, 2.2uH,20%,1A,SMD	1	CONSCO=Fixed,QUALCO=Mil Spec,PINS=2,RADA=1,RTMP=125,RATVOLT=220,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,TMPR=10,POWL=0,OVLT=110,ADJF=1,SM=1,SM=1.
1.1.115	Micro, Linear U2,Dual-channel ultra-low noise 256 micro-stepping low-voltage motor driver	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=32,THCA=50,THJC=26,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=25,CTMP=45,POWR=0.1,ACTC=32,ADJF=1,SM=1,SM=1.
1.1.116	Micro, Linear U8,Dual ground sense operational amplifier	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=8,THCA=50,THJC=28,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=25,CTMP=45,POWR=0.1,ACTC=8,ADJF=1,SM=1,SM=1.

Name	Description	Quantity	Physical Parameters All	Application Parameters All
1.1 [illegible]7	Micro, Linear,U14,300-mA, Low-Dropout Regulator	1	TECH=Comp Meta. Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=5,THCA=50,THJC=28,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=25,CTMP=45,POWR=0.1,ACTC=5,ADJF=1,SM=1,SM=1
1.1 [illegible]6	Micro, Linear,U15,300-mA Low-Dropout Regulator	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=5,THCA=50,THJC=28 RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=25,CTMP=45,POWR=0.1,ACTC=5,ADJF=1,SM=1,SM=1.
[illegible]19	Micro, Linear,U18,300-mA Low-Dropout Regulator	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=5,THCA=50,THJC=28 RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=25,CTMP=45,POWR=0.1,ACTC=5,ADJF=1,SM=1,SM=1
1.1 [illegible]20	External,IMX335,Image Sensor,Diagonal 8.43mm(Type 1/2.8) CMOS Solid-state Image Sensor	1	RATE=0.16,PINS=88,External Temp Model=No,	QUAN=1,CONN=Reflow Solder,ADJF=1,TEMP=25,TEMP=125,TEMP=1,SM=1,SM=1,
2	Block,MainBoard,CPU,CV28s33m	1	QUALMI=Commercial or Unknown,QUALDS=Jan,QUALRS=Noneslablished Reliab,QUALCR=Noneslablished Reliab,QUALCO=Mil Spec,QUALRY=Class M,QUALSS=Mil Spec,QUALSA=High Quality Port,QUALDT=Mil Spec,	QUAN=1,REPM=Non-Repairable,ENVI=Ground,fixed,CONN=Reflow Solder,MTTR=0,NOST=0,TEMP=25,VSTRESS=0.80000001,CSTRESS=0.599999999,PSTRESS=0.75,ADJF=1,SM=1,SM=1,

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Compiled By : V.Jambulingam
Approved By : R.Radhika

Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1	IA. Surface Mount Tech	1	LEAD=Leadless,BTCE=7,PTCE =7,SOJD=500,SOJH=5,THJC= 45,	QUAN=1,ENVI=Ground,fixed,CYNA=1.5D LC=8760,POWR=0.1,ADJF=1,
2.1.1	Resistor,R155,10K?= 1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.00057600002,AP PPOWER=3.6000001e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.2	Resistor,R20. 54.9K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.005264,APPPOW ER=0.000329,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.3	Resistor,R24,31.6K? +1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.003296,APPPOW ER=0.000206,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
	Resistor,R154,20K?+ 1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.001152,APPPOW ER=7.2000002e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
	Resistor,R160,25.5K ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=1.406e-5,APPPOW ER=8.5000002e-7,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.6	Resistor,R161,100K? ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=5.7599998e-5,APPP OWER=3.5999999e-6,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.7	Resistor,R1352,24K? ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.0018,APPPOWE R=9.9999997e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.8	Resistor,R1339,37.4 ?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.10688,APPPOWE R=0.0066800001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.9	Resistor,R202,470?±5% 0402	1	STY_RS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed TEMP=25,P OWR=0.1,PSTRESS=0.001264,APPPOW ER=7.8999998e-3,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.10	Resistor,R203,470?±5% 0402	1	STY_RS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.001264,APPPOW ER=7.8999998e-3,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.11	Resistor,R205,470?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.2288,APPPOWE R=0.0143,CONN=Reflow Solder,ADJF=1,SM=1,SM=1
2.1.12	Resistor,R210,470?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.2288,APPPOWE R=0.0143,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.13	Resistor,R16,100K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=5.76e-6,APPPOWE R=3.6e-7,CONN=Reflow Solder,ADJF=1,SM=1,SM=1
2.1.14	Resistor,R22,100K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=5.76e-6,APPPOWE R=3.6e-7,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.15	Resistor,R151,330?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.16	Resistor,R333,330?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.17	Resistor,R150,33?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.18	Resistor,R332,33?±5 % 0402	1	STYLRS=Fixed,Film,High Stab QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.19	Resistor,R151,560?± 5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.034559999,APPP OWER=0.002159999,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.20	Resistor,R134,560?± 5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.034559999,APPP OWER=0.002159999,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.21	Resistor,R135,560?± 5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.034559999,APPP OWER=0.002159999,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.22	Resistor,R1372,10K? ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.0104,APPPOWE R=0.00065,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.23	Resistor,R159,10K?± 1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.00057600002,AP PPOWER=3.6000001e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.24	Resistor,R157,10K?± 1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.00057600002,AP PPOWER=3.6000001e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.25	Resistor,R155,10K?± 1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.00057600002,AP PPOWER=3.6000001e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.26	Resistor,R152,10K?± 1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.0093590096,APP POWER=0.00058499997,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.27	Resistor,R21,10K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.0093599996,APP POWER=0.00058490997,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.28	Resistor,R352,10K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.0051839999,APP POWER=0.00032399999,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.29	Resistor,R359,10K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.0051839999,APP POWER=0.00032399999,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.30	Resistor,R265,10K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.00078399997,AP PPOWER=4.8999998e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.31	Resistor,R226,10K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.00078399997,AP PPOWER=4.8999998e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.32	Resistor,R214,10K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.017424,APPPOW ER=0.001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.33	Resistor,R205,10K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.033440001,APPP OWER=0.0020900001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.34	Resistor,R207,10K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.017424,APPPOW ER=0.001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.35	Resistor,R206,10K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.033440001,APPP OWER=0.0020900001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2 1.36	Resistor,R197,10K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625 PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.039999999,APPP OWER=0.0024999999,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2 1.37	Resistor,R196,10K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.039999999,APPP OWER=0.0024999999,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2 1.38	Resistor,R28,10K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.00075396597,AP PPOWER=4.8999996e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2 1.39	Resistor,R8,10K?±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.07424,APPPOW ER=0.001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2 1.40	Resistor,R32,4.7K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.01024,APPPOW ER=0.00068900001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
	Resistor,R100,4.7K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.05632,APPPOW ER=0.00097699999,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1 42	Resistor,R92,4.7K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.00766400C1,APP POWER=0.00047900001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2 1.43	Resistor,R93,4.7K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.00766400C1,APP POWER=0.00047900001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2 1.44	Resistor,R94,4.7K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.00766400C1,APP POWER=0.00047900001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.45	Resistor,R125,4.7K?+5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,POWR=0.1,PSTRESS=0.0076840001,APPPOWER=0.0047900001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.46	Resistor,R25,0?±5% 0201	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.050000001,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,POWR=0.1,PSTRESS=0,APPPOWER=0,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.47	Resistor,R31,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,POWR=0.1,PSTRESS=0,APPPOWER=0,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.48	Resistor,R33,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,POWR=0.1,PSTRESS=0,APPPOWER=0,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.49	Resistor,R136,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,POWR=0.1,PSTRESS=0,APPPOWER=0,CONN=Reflow Solder,ADJF=1,SM=1,SM=1
2.1.50	Resistor,R158,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,POWR=0.1,PSTRESS=0,APPPOWER=0,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.51	Resistor,R165,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,POWR=0.1,PSTRESS=0,APPPOWER=0,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.52	Resistor,R304,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,POWR=0.1,PSTRESS=0,APPPOWER=0,CONN=Reflow Solder,ADJF=1,SM=1,SM=1
2.1.53	Resistor,R305,0?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,POWR=0.1,PSTRESS=0,APPPOWER=0,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.54	Resistor,R359,0?±5 % 0402	1	STYLRS=Fixed,Film High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0.C ONN=Reflow Solder,ADJF=1,SM=1,SM=1.
2.1.55	Resistor,R360,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1.
2.1.56	Resistor,R361,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.57	Resistor,R362,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1.
2.1.58	Resistor,R363,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1.
2.1.59	Resistor,R364,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1
2.1.60	Resistor,R365,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1
2.1.61	Resistor,R366,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1
2.1.62	Resistor,R367,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1.

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Approved By : R.Radhika.

Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.62	Resistor,R368.0?±5 % 0402	1	STYLRS=Fixed Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.64	Resistor,R365.0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.65	Resistor,R1392.0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.66	Resistor,R1323.0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.67	Resistor,R1325.0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.68	Resistor,R1327.0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1
2.1.69	Resistor,R1344.0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.70	Resistor,R1355.0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.71	Resistor,R1362.0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.72	Resistor,R1375,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0.C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.73	Resistor,R1377,0?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0,APPPOWER=0,C ONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.74	Resistor,R6.1K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.05184,APPPOWE R=0.00324,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.75	Resistor,R7.1K?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.05184,APPPOWE R=0.00324,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.76	Resistor,R13.1K?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.01936,APPPOWE R=0.00121,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
	Resistor,R49.1K?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.01936,APPPOWE R=0.00121,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.78	Resistor,R121,1K?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.003328,APPPOW ER=0.000208,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.79	Resistor,R225,1K?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.01936,APPPOWE R=0.00121,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.80	Resistor,R259,1K?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.01936,APPPOWE R=0.00121,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.81	Resistor,R960,1K?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUA_RS=Class M,RATPOWER=0.0625 PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.003329,APPPOW ER=0.000208,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.82	Resistor,R964,1K?±5 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.01536,APPPOWE R=0.00121,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.83	Resistor,R10,2K?±1 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.071999997,APPP OWER=0.0044999999,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.84	Resistor,R950,1K?±1 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.0057600001,APP POWER=0.0003600001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.85	Resistor,R951,1K?±1 % 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.0057600001,APP POWER=0.0003600001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1
2.1.86	Resistor,R153,10OK? ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.0017424,APPPO WER=0.0001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.87	Resistor,R156,10OK? ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.0017424,APPPO WER=0.0001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.88	Resistor,R162,10OK? ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.0017424,APPPO WER=0.0001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.89	Resistor,R163,10OK? ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 ,	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.000230399999,AP PPOWER=1.44e-5,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.90	Resistor,R164,100K? ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.0017424,APPPO WER=0.0001629,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.91	Resistor,R215,100K? ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.021813999,APPP OWER=0.00137,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.92	Resistor,R266,100K? ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.0017424,APPPO WER=0.0001089,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.93	Resistor,R161,100K? ±1% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=5.7509999e-5,APPP OWER=3.5999999e-6,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.94	Resistor,R200,4.7K? ±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.011024,APPPOW ER=0.0006890001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.95	Resistor,R201,4.7K? ±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.011024,APPPOW ER=0.0006890001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.96	Resistor,R211,4.7K? ±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.036800001,APPP OWER=0.002300001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.97	Resistor,R243,4.7K? ±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.036800001,APPP OWER=0.002300001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.98	Resistor,R244,4.7K? ±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.036800001,APPP OWER=0.002300001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.99	Resistor,R327,4.7K? ±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 .	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.036800001,APPP OWER=0.0023000001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1.
2.1.100	Resistor,R343,4.7K? ±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 .	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.036800001,APPP OWER=0.0023000001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.101	Resistor,R355,4.7K? ±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 .	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.030400001,APPP OWER=0.0019,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.102	Resistor,R1338,4.7K ?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 .	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.036800001,APPP OWER=0.0023000001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1.
2.1.103	Resistor,R1343,4.7K ?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 .	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.036800001,APPP OWER=0.0023000001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.104	Resistor,R1345,4.7K ?±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 .	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.011024,APPPOW ER=0.0006890001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.105	Resistor,R146,4.7K? ±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 .	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.036800001,APPP OWER=0.0023000001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.106	Resistor,R147,4.7K? ±5% 0402	1	STYLRS=Fixed,Film,High Stab,QUALRS=Class M,RATPOWER=0.0625,PINS=2 .	QUAN=1,ENVI=Ground,fixed,TEMP=25,P OWR=0.1,PSTRESS=0.036800001,APPP OWER=0.0023000001,CONN=Reflow Solder,ADJF=1,SM=1,SM=1,
2.1.107	Capacitor,C4.22pF±5 % 50V NP0 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=2.2e-9,RATVOLT=50. PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.000,C RES=0.60000002,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.108	Capacitor,C191,0.01uF±10% 100V X7R 0402	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=0.009999999,RATVOLT=100,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=12,VSTRESS=0.12,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.109	Capacitor,C8,0.1uF±10% 50V,X5R,0201	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=1.8,VSTRESS=0.035999998,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.110	Capacitor,C7,0.1uF±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=12,VSTRESS=0.23999999,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.111	Capacitor,C19,1uF±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=12,VSTRESS=0.23999999,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.112	Capacitor,C240,2.2uF±10% 25V X5R 0402	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=2.2,RATVOLT=25,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=0.80000001,VSTRESS=0.032000002,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.113	Capacitor,C43,4.7uF±10% 50V X5R 0603	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=4.6999998,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.114	Capacitor,C57,10uF±10% 50V X5R 0805	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=10,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=12,VSTRESS=0.23999999,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.115	Capacitor,C124,22uF±10% 50V X5R 1206	1	STYLCR=Ceramic,General,ER,QUALCR=Class M,CAPC=22,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,

Name	Description	Quantity	Physical Parameters Att	Application Parameters Att
2.1.116	Capacitor C135,47uF ±20% 10V X5R 1206	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=47,RATVOLT=10,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25 C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.32999 996,CRES=0.60000002,ADJF=1,SM=1,SM =1,
2.1.117	Capacitor,C269,0.33 uF±10% 50V,X7R,0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.33000001,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.118	Capacitor,C241,2.2uF±10% 25V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=2.2,RATVOLT=25,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.048,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.119	Capacitor,C1652,0.01uF±10% 100V X7R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.009999999,RATVOLT=100,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=5,VSTRESS=0.05000000 01,CRES=0.60000002,ADJF=1,SM=1,SM= 1,
2.1.120	Capacitor,C140,0.22 uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.22,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.121	Capacitor,C220,0.22 uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.22,RATVOLT=50,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.122	Capacitor,C220,0.22 uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.22,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.123	Capacitor,C125,22uF ±20%50V X5R 0805	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=22,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015 CRES=0.60000002,ADJF=1,SM=1,SM=1,

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Approved By : R.Radhika

Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.124	Capacitor,C127,22uF ±20%50V X5R 0805	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=22,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015, CRES=0.60000002,ADJF=1,SM=1,SM=1
2.1.125	Capacitor,C1642,22uF±20%50V X5R 0805	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=22,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.126	Capacitor,C126,22uF ±20%50V X5R 0805	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=22,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=5,VSTRESS=0.1,CRES =0.60000002,ADJF=1,SM=1,SM=1,
2.1.127	Capacitor,C66,22uF±20%50V X5R 0805	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=22,RATVOLT=50,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.128	Capacitor,C270,22uF ±20%50V X5R 0805	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=22,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.129	Capacitor,C87,10uF±10% 25V X5R 0805	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=25,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.048,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.130	Capacitor,C110,10uF ±10% 25V X5R 0805	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=25,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=2.5,VSTRESS=0.1,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.131	Capacitor,C49,4.7uF ±10% 50V X5R 0603	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=4.6999998,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.132	Capacitor,C56,4.7uF ±10% 50V	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=4.6999998,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=1.8,VSTRESS=0.03599 9998,CRES=0.60000002,ADJF=1,SM=1,S M=1,

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Name	Description	Quantity	Physical Parameters Att	Application Parameters Att
2.1.133	Capacitor,C61,4.7uF ±10% 50V	1	STYLCR=Ceramic,General,ER. QUALCR=Class M,CAPC=4.6999998,RATVOLT =50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.134	Capacitor,C167,4.7u F±10% 50V	1	STYLCR=Ceramic,General,ER QUALCR=Class M,CAPC=4.6999998,RATVOLT =50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.135	Capacitor,C159,4.7u F±10% 50V	1	STYLCR=Ceramic,General,ER. QUALCR=Class M,CAPC=4.6999998,RATVOLT =50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.136	Capacitor,C301,4.7u F±10% 50V	1	STYLCR=Ceramic,General,ER QUALCR=Class M,CAPC=4.6999998,RATVOLT =50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.137	Capacitor,C42,10uF± 10% 25V X5R 0805	1	STYLCR=Ceramic,General,ER QUALCR=Class M,CAPC=10,RATVOLT=25,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=12,VSTRESS=0.045,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.138	Capacitor,C200,10uF ±10% 25V X5R 0805	1	STYLCR=Ceramic,General,ER. QUALCR=Class M,CAPC=10,RATVOLT=25,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=12,VSTRESS=0.479999 99,CRES=0.60000002,ADJF=1,SM=1,SM= 1,
2.1.139	Capacitor,C213,10uF ±10% 25V X5R 0805	1	STYLCR=Ceramic,General,ER QUALCR=Class M,CAPC=10,RATVOLT=25,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=12,VSTRESS=0.479999 99,CRES=0.60000002,ADJF=1,SM=1,SM= 1,
2.1.140	Capacitor,C218,10uF ±10% 25V X5R 0805	1	STYLCR=Ceramic,General,ER QUALCR=Class M,CAPC=10,RATVOLT=25,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=12,VSTRESS=0.479999 99,CRES=0.60000002,ADJF=1,SM=1,SM= 1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.141	Capacitor,C265,10uF ±10% 25V X5R 0805	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=10,RATVOLT=25,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.132,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.142	Capacitor,C57,1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=1.8,VSTRESS=0.035999998,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.143	Capacitor,C82,1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.144	Capacitor,C65,1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=0.20000001,VSTRESS=0.016000001,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.145	Capacitor,C69,1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=1.8,VSTRESS=0.035999998,CRES=0.60000002,ADJF=1,SM=1,SM=1
2.1.146	Capacitor,C73,1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.147	Capacitor,C142,1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.148	Capacitor,C145,1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.149	Capacitor C155,1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic General,ER, QUALCR=Class M,CAPC=1,RATVOLT=50,PINS =2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=5,VSTRESS=0.1,CRES =0.60000002,ADJF=1,SM=1,SM=1,
2.1.150	Capacitor,C249,1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic General,ER, QUALCR=Class M,CAPC=22,RATVOLT=50,PIN S=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1
2.1.151	Capacitor,C134,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.152	Capacitor,C141,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.153	Capacitor,C143,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.154	Capacitor,C144,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.155	Capacitor,C157,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,C RES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.156	Capacitor,C160,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=5,VSTRESS=0.1,CRES =0.60000002,ADJF=1,SM=1,SM=1,
2.1.157	Capacitor,C162,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=12,VSTRESS=0.239999 99,CRES=0.60000002,ADJF=1,SM=1,SM= 1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.158	Capacitor,C161,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.159	Capacitor,C163,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.160	Capacitor,C165,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.161	Capacitor,C167,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.162	Capacitor,C169,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.163	Capacitor,C196,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.164	Capacitor,C198,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.165	Capacitor,C206,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=5,VSTRESS=0.1,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.166	Capacitor,C210,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=12,VSTRESS=0.2399999,CRES=0.60000002,ADJF=1,SM=1,SM=1.

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.167	Capacitor,C211,0.1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER,QUALCR=ClassM,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25.0,CONN=Reflow Solder,APPVOLT=12,VSTRESS=0.239999,CRES=0.60000002,ADJF=1,SM=1,SM=1.
2.1.168	Capacitor,C212,0.1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER,QUALCR=ClassM,CAPC=0.1,RATVOLT=50,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25.0,CONN=Reflow Solder,APPVOLT=12,VSTRESS=0.239999,CRES=0.60000002,ADJF=1,SM=1,SM=1.
2.1.169	Capacitor,C215,0.1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER,QUALCR=ClassM,CAPC=0.1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=25.0,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1
2.1.170	Capacitor,C219,0.1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER,QUALCR=ClassM,CAPC=0.1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=25.0,CONN=Reflow Solder,APPVOLT=12,VSTRESS=0.239999,CRES=0.60000002,ADJF=1,SM=1,SM=1.
	Capacitor,C220,0.1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER,QUALCR=ClassM,CAPC=0.1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=25.0,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.172	Capacitor,C221,0.1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER,QUALCR=ClassM,CAPC=0.1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=25.0,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.173	Capacitor,C232,0.1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER,QUALCR=ClassM,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25.0,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1.
2.1.174	Capacitor,C235,0.1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ERQUALCR=ClassM,CAPC=0.1,RATVOLT=50,PINS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=25.0,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,

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2.1.175	Capacitor,C237,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.176	Capacitor,C238,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=2.5,VSTRESS=0.05000 0001,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.177	Capacitor,C260,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.178	Capacitor,C263,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.179	Capacitor,C267,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.180	Capacitor,C268,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=1.8,VSTRESS=0.03599 9998,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.181	Capacitor,C334,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=0.69999999,VSTRESS=0.014,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.182	Capacitor,C647,0.1u F ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.183	Capacitor,C 631,0.1 uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25.C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.000,CRES=0.60000002,ADJF=1.SM=1.SM=1,
2.1.184	Capacitor,C85,0.1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25.C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.185	Capacitor,C271,0.1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25.C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.186	Capacitor,C300,0.1uF ±10% 50V X5R 0402	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25.C ONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1.SM=1.SM=1,
2.1.187	Capacitor,C88,0.1uF ±10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25.C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1.SM=1.SM=1,
2.1.188	Capacitor,C89,0.1uF ±10% 50V X5R0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25.C ONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1.SM=1.SM=1.
2.1.189	Capacitor,C111,0.1uF ±10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25.C ONN=Reflow Solder,APPVOLT=2.5,VSTRESS=0.050000001,CRES=0.60000002,ADJF=1.SM=1.SM=1
2.1.190	Capacitor,C112,0.1uF ±10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=2.5,VSTRESS=0.050000001,CRES=0.60000002,ADJF=1.SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.191	Capacitor,C246,0.1uF ±10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.192	Capacitor,C20,0.1uF ±10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.193	Capacitor,C21,0.1uF ±10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.194	Capacitor,C22,0.1uF ±10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.195	Capacitor,C23,0.1uF ±10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.196	Capacitor,C24,0.1uF ±10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.197	Capacitor,C25,0.1uF ±10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.198	Capacitor,C26,0.1uF ±10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.199	Capacitor,C27,0.1uF ±10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015,CRES=0.60000002,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.200	Capacitor,C29,0.1uF ±10% 50V X5R 0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015, CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.201	Capacitor,C30,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015, CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.202	Capacitor,C31,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015, CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.203	Capacitor,C32,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015, CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.204	Capacitor,C33,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015, CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.205	Capacitor,C34,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015, CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.206	Capacitor,C35,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015, CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.207	Capacitor,C36,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015, CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.208	Capacitor,C37,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PI NS=2.	QUAN=1,ENVI=Ground,fixed,TEMP=25,C ONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015, CRES=0.60000002,ADJF=1,SM=1,SM=1

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.209	Capacitor,C38,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.210	Capacitor,C39,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.211	Capacitor,C40,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.212	Capacitor,C41,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=0.75,VSTRESS=0.015,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.213	Capacitor,C44,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1
2.1.214	Capacitor,C45,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1.
2.1.215	Capacitor,C46,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=3.3,VSTRESS=0.066,CRES=0.60000002,ADJF=1,SM=1,SM=1
2.1.216	Capacitor,C47,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.217	Capacitor,C48,0.1uF ±10%,50V,X5R,0201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,

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2.1.218	Capacitor,C50,0.1uF ±10%,50V,X5R,C201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.219	Capacitor,C51,0.1uF ±10%,50V,X5R,C201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.220	Capacitor,C52,0.1uF ±10%,50V,X5R,C201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.221	Capacitor,C53,0.1uF ±10%,50V,X5R,C201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.222	Capacitor,C54,0.1uF ±10%,50V,X5R,C201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.223	Capacitor,C55,0.1uF ±10%,50V,X5R,C201	1	STYLCR=Ceramic,General,ER, QUALCR=Class M,CAPC=0.1,RATVOLT=50,PINS=2,	QUAN=1,ENVI=Ground,fixed,TEMP=25,CONN=Reflow Solder,APPVOLT=1.2,VSTRESS=0.024,CRES=0.60000002,ADJF=1,SM=1,SM=1,
2.1.224	Diode, Low Frequency,D7,TVS,Bi,15V,1500W,SMC	1	CONSLD=Non-Metal Bonded,QUALDS=Lower,NUNS=1,PINS=2,THCA=50,THJC=70,RATP=1500,RATVOLT=15,RATVOLT=150,RATVOLT=0,	QUAN=1,APPLLD=Transient Suppressor,ENVI=Ground,fixed,JTMP=45,MODE=User Defined Junct Temp,TEMP=25,CONN=Reflow Solder,CTMP=35,POWR=0.1,VSTRESS=0.90000001,APPVOLT=1.2,ADJF=1,SM=1,SM=1,
2.1.225	Diode, High Frequency,D5,3.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER	1	TYPEHD=Schottky Barrier,QUALDS=Plastic,PINS=2,THCA=50,THJC=70,RATP=1.5,RATVOLT=20,RATVOLT=150,RATVOLT=0,	QUAN=1,APPLHD=All Other HF Diodes,ENVI=Ground,fixed,JTMP=45,MODE=User Defined Junct Temp,TEMP=25,CONN=Reflow Solder,CTMP=35,POWR=0.1,APPVOLT=1.2,ADJF=1,SM=1,SM=1,

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.226	Diode, Low Frequency,D111,Thyristors Solid Protection Device Bidirectional transient voltage suppressors	1	CONSLD=Non-Metal Bonded,QUALDS=Lower,NJNS=1,PINS=2,THCA=50,THJC=70,RATP=400,RATVOLT=3 3,RATVOLT=150,RATVOLT=0,	QUAN=1,APPLLD=Transient Suppressor,ENVI=Ground,fixed,JTMP=45 MODE=User Defined Junct Temp,TEMP=25,CONN=Reflow Solder,CTMP=35,POWR=0.1,VSTRESS=0,APPVOLT=0,ADJF=1,SM=1,SM=1,
2.1.227	Diode, Low Frequency,D112 Thyristors Solid Protection Device Bidirectional transient voltage suppressors	1	CONSLD=Non Metal Bonded,QUALDS=Lower,NJNS=1,PINS=2,THCA=50,THJC=70,RATP=400 RATVOLT=100,RATVOLT=150,RATVOLT=0,	QUAN=1,APPLLD=Transient Suppressor,ENVI=Ground,fixed,JTMP=45, MODE=User Defined Junct Temp TEMP=25,CONN=Reflow Solder,CTMP=35,POWR=0.1,VSTRESS=0,APPVOLT=0,ADJF=1,SM=1,SM=1,
2.1.228	Diode, Low Frequency D10,High Property Device for Surge & ESD	1	CONSLD=Metallurgically Bonded,QUALDS=Lower,NJNS=1,PINS=2,THCA=50,THJC=70,RATP=1,RATVOLT=15,RATVOLT=150 RATVOLT=0,	QUAN=1,APPLLD=Transient Suppressor,ENVI=Ground,fixed,,JTMP=45, MODE=User Defined Junct Temp,TEMP=25,CONN=Reflow Solder,CTMP=35,POWR=0.1,VSTRESS=0.40000001,APPVOLT=6,ADJF=1,SM=1,SM=1,
2.1.229	Diode, Low Frequency,D11,High Property Device for Surge & ESD	1	CONSLD=Metallurgically Bonded,QUALDS=Lower,NJNS=1,PINS=2,THCA=50,THJC=70,RATP=1,RATVOLT=15,RATVOLT=150,RATVOLT=0,	QUAN=1,APPLLD=Transient Suppressor,ENVI=Ground,fixed,,JTMP=45, MODE=User Defined Junct Temp,TEMP=25,CONN=Reflow Solder,CTMP=35,POWR=0.1,VSTRESS=0.40000001,APPVOLT=6,ADJF=1,SM=1,SM=1,
2.1.230	Diode, High Frequency,D2,Schottky Barrier Diode	1	TYPEHD=Schottky Barrier,QUALDS=Lower,PINS=3,THCA=50,THJC=70,RATP=0.093999997,RATVOLT=30,RATVOLT=150,RATVOLT=0,	QUAN=1,APPLHD=All Other HF Diodes,ENVI=Ground,fixed,JTMP=45,MODE=User Defined Junct Temp,TEMP=25,CONN=Reflow Solder,CTMP=45,POWR=0.1,APPVOLT=1.8,ADJF=1,SM=1,SM=1,

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2.1.231	Quartz Crystal,X1,24MHz,SMD 3.2*2.5mm,20pF,±20PPM	1	QUALOT=Mil Spec,FREQQC=24,RATVOLT=0,PINS=4,	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder APPVOLT=1.8,ADJF=1,
2.1.232	Quartz Crystal,X2 32.768KHz,12.5pF,±20PPM,3.2*1.5,SMD	1	QUALOT=Mil Spec,FREQQC=0.032765,RATVOLT=0,PINS=2	QUAN=1 ENVI=Ground,fixed,CONN=Reflow Solder,APPVOLT=1.8,ADJF=1,
2.1.233	Connector, General,J2 Conn B2C TB, Male 1x2, 1.25mm, SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=2,RATCURR=0.5,RTMP=105	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=25,TMPR=0.11900133,AMPS=0,ADJF=1,SM=1,SM=1,
2.1.234	Connector, General,J5,Conn B2C,TB Male 1x5, 1.25mm, SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=5,RATCURR=0.5,RTMP=105	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=25,TMPR=0.00605 97862,AMPS=0.1,ADJF=1,SM=1,SM=1.
2.1.235	Connector, General,J18,Conn B2C,TB Male, 1x2, 1.25mm SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=2,RATCURR=0.5,RTMP=105,	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=25,TMPR=0.11900133,AMPS=0,ADJF=1,SM=1,SM=1,
2.1.236	Connector, General,J29,Conn, B2C,TB, Male, 1x2, 1.25mm, SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=2,RATCURR=0.5,RTMP=105,	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=25,TMPR=0.11900133,AMPS=0,ADJF=1,SM=1,SM=1.
2.1.237	Connector, General,J1,Conn, B2C,TB, Male, 1x4, 1.25mm, SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=18 Gauge,NCON=4,RATCURR=0.5,RTMP=105,	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=25,TMPR=0.11900133,AMPS=0,ADJF=1,SM=1,SM=1.

Analyst : N.Venkata Naga Aravind
Compiled By : V Jambulingam
Approved By : R Radhika

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.238	Connector, General,J12,Conn, B2C,TB, Male, 1x4,1.25mm SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair,CSIZ=16 Gauge,NCON=4,RATCURR=0 5,RTMP=105,	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=25,TMPR=0.11900 133,AMPS=0,ADJF=1,SM=1,SM=1,
2.1.239	Connector, General,J8,Conn, B2C, Male, 1x2 1.25mm, ST, SMD	1	TYPEGC=Rectangular,QUALOT=Lower PAIR=Mated Pair,CSIZ=16 Gauge,NCON=2,RATCURR=0 5,RTMP=105,	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=25,TMPR=0 00849 06516,AMPS=0.12,ADJF=1 SM=1,SM=1,
2.1.240	Connector, General J10,Conn, B2C, Male, 1x2, 1.25mm, ST, SMD	1	TYPEGC=Rectangular,QUALOT=Lower PAIR=Mated_Pair,CSIZ=16 Gauge,NCON=2,RATCURR=0. 5,RTMP=105,	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=25,TMPR=0 11900 133,AMPS=0,ADJF=1,SM=1,SM=1,
	Connector, General,J3,Conn, B2C, Male, 1x10 1.25mm, ST, SMD	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated_Pair CSIZ=16 Gauge,NCON=10,RATCURR=0 5,RTMP=105,	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=25,TMPR=0 11900 133,AMPS=0,ADJF=1,SM=1,SM=1,
	Connector, General,J7,Conn, B2C, Male, 1x12, 1.25mm, ST, SMD	1	TYPEGC=Rectangular,QUALOT=Lower PAIR=Mated_Pair,CSIZ=16 Gauge,NCON=12,RATCURR=0 5,RTMP=105,	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=25,TMPR=0.02184 554,AMPS=0.2,ADJF=1,SM=1,SM=1,
2.1.243	Connector, General,J5,0.5mm FFC/FPC DUAL CONTACT SIDE CONNECTOR	1	TYPEGC=Rectangular,QUALOT=Lower,PAIR=Mated Pair,CSIZ=16 Gauge,NCON=60 RATCURR=0 .5,RTMP=105,	QUAN=1,ENVI=Ground,fixed,CONN=Reflow Solder,MATU=1,TEMP=25,TMPR=0.11900 133,AMPS=0,ADJF=1,SM=1,SM=1,

Analyst : N Venkata Naga Aravind
Compiled By : V.Jambulingam.
Approved By : R.Rachika:

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Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.244	Micro, Linear,U19,DIFFERENTIAL BUS TRANSCEIVERS	1	TECH=Comp Metal Oxide Semicon PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=8,THCA=50,THJC=28,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=25,CTMP=45,POWR=0.1,ACTC=8,ADJF=1,SM=1,SM=1,
2.1.245	Micro, Linear,U61.1A high-efficiency synchronous step-down converter	1	TECH=Comp Metal Oxide Semicon PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=5,THCA=50,THJC=28,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=25,CTMP=45,POWR=0.1,ACTC=5,ADJF=1,SM=1,SM=1,
2.1.246	Micro, Linear,U60.300-mA, Low-Dropout Regulator	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=5,THCA=50,THJC=28,RATP=1,RATP=125,RATP=0.0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=25,CTMP=45,POWR=0.1,ACTC=5,ADJF=1,SM=1,SM=1,
2.1.247	Micro, Linear,U21,2A high-efficiency synchronous step-down converter	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=5,THCA=50,THJC=28,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=25,CTMP=45,POWR=0.1,ACTC=5,ADJF=1,SM=1,SM=1,
2.1.248	Micro, Linear,U50,2A high-efficiency synchronous step-down converter	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=5,THCA=50,THJC=28,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=25,CTMP=45,POWR=0.1,ACTC=5,ADJF=1,SM=1,SM=1,

Analyst : N.Venkata Naga Aravind
Compiled By : V.JamunaNagam:
Approved By : R.Radhika:

Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.249	Micro, Linear,U51,2A high-efficiency synchronous step-down converter	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=5,THCA=50,THJC=28,RATP=1,RATP=125 RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=25,CTMP=45,POWR=0.1,ACTC=5,ADJF=1,SM=1,SM=1,
2.1.250	Micro, Linear U20,2A synchronous step-down converter	1	TECH=Comp Metal Oxide Semicon PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=6,THCA=50,THJC=28,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=25,CTMP=45,POWR=0.1,ACTC=6,ADJF=1,SM=1,SM=1,
2.1.251	Micro, Linear,U9, 2-Bit, 2-Supply, Bus Transceiver with Configurable Level-Shifting/Translation and 3-State Outputs and	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=8,THCA=50,THJC=28,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=25,CTMP=45,POWR=0.1,ACTC=8,ADJF=1,SM=1,SM=1,
2.1.252	Micro, Linear,U34,microprocessor (?P) supervisorycircuits	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=4,THCA=50,THJC=28,RATP=1,RATP=125,RATP=0,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=25,CTMP=45,POWR=0.1,ACTC=4,ADJF=1,SM=1,SM=1,
2.1.253	Micro, Linear,U19,2A synchronous step-down converter	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=6,THCA=50,THJC=28,RATP=1,RATP=0,RATP=0.RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTMP=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=25,CTMP=45,POWR=0.1,ACTC=6,ADJF=1,SM=1,SM=1,

Analyst : N.Venkata Naga Aravind
Compiled By : V.Jambulingam:
Approved By : R.Radhika:

Name	Description	Quantity	Physical Parameters All	Application Parameters All
2.1.254	Micro, Digital,IC,SERIAL NAND, 2Gb,WSON8	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,RATS=100,YEAR=2,PINS=8, THCA=50,THJC=28,RATP=1,H ATP=0.0,HATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTM P=45,MODE=User Defined Junct Temp,TEMP=25,CONN=Reflow Solder,CTMP=35,POWR=0.1,ACTC=8,AD JF=1,SM=1,SM=1,
2.1.255	Micro, Non EEPROM,U15,IC MEM 4Gb,1200MHz DDR4,BGA96	1	TYPEMM=DRAM, TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,KBIT=3200000,YEAR=2,PINS =96,THCA=50,THJC=28,RATP =1,RATP=0.0,RATP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTM P=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=25,CTMP=35,POWR=0.1,A CTC=95,ADJF=1,SM=1,SM=1,
1.1.256	External,Digital,U1,IC , CV25S56M, Ambarella vision processor,VFBGA-25 6_0.65_11*12mm	1	RATE=0.01074,PINS=256,Exter nal Temp Model=No,	QUAN=1,CONN=Reflow Solder,ADJF=1,TEMP=25,TEMP=125,TE MP=1,SM=1,SM=1,
1.1.25	External,U25,300-mA Low-Dropout Regulator	1	RATE=0.003277337,PINS=8,Ex ternal Temp Model=No,	QUAN=1,CONN=Reflow Solder,ADJF=1,TEMP=25,TEMP=125,TE MP=1,SM=1,SM=1,
1.1.258	Micro, Linear,U54,10/100Mb ps single-port Physical Layer transceiver	1	TECH=Comp Metal Oxide Semicon,PACKIC=Surface Mount Tech,QUALMI=Class B,TRAS=24,YEAR=2,PINS=28, THCA=50,THJC=28,RATP=1,R ATP=0,RATP=0,RATP=0.0,RA TP=125,	QUAN=1,ENVI=Ground,fixed,PVAL=1,JTM P=45,MODE=User Defined Junct Temp,CONN=Reflow Solder,TEMP=25,CTMP=45,POWR=0.1,A CTC=25,ADJF=1,SM=1,SM=1

Analyst : N Venkata Naga Aravind
Compiled By : V Jamlulingam
Approved By : R.Radhika

MTBF

(MODEL NO. - SC-IND52BP-I(Z)(S))

EFKON INDIA PVT. LTD.

Report No: MTL/2K24/003B/N	MIL-HDBK-217FN2	Page 1 of 16
Dated: 21/08/2024		

Manufacturer	**SAMRIDDHI AUTOMATIONS PRIVATE LIMITED** PLOT NO. 75, SECTOR-7, IIE, SIDCUL, HARIDWAR, UTTARAKHAND, India 249403	
Test item	IP Camera	
Identification	Model: **SC-IND52BP-I(Z)(S)**	*Serial No : N/A*
Rating	12VDC, 1A	*Brand:* sparsh
Applicant's name :	**SAMRIDDHI AUTOMATIONS PRIVATE LIMITED**	
Address :	PLOT NO. 75, SECTOR-7, IIE, SIDCUL, HARIDWAR, UTTARAKHAND, India, 249403	
Receipt No :	**003B/07/2024/N**	*Date of receipt:* **27/07/2024**
Date of Performance :	29/07/2024 to 20/08/2024	
Testing laboratory and its address.	**MATRIX TEST LABS** PLOT No. 28, BADLI INDUSTRIAL AREA PHASE-II, DELHI-110042	
Test specification.	**MIL-HDBK-217FN2**	
Test Report Form No	**MTL/TRF/ MIL-HDBK-217FN2/V1.0**	
Test Report Form(s) Originator :	**MATRIX TEST LABS**	
Master TRF :	**26/07/2024**	
Test Result.	The result annexed in the test report	
Other Aspects:	— *This Test Report consists of* ***16*** *Pages including an attachment of Photographs* — *This* **IP Camera** *Model no.* ***SC-IND52BP-I(Z)(S)*** *has been tested as per* **MIL-HDBK-217FN2** for **MTBF.**	
This test report relates to the test sample submitted		

Tested by:	Approved by / Authorized Signatory:	Issued by:
		POONAM Digitally signed by POONAM
Sunny Sharma **(Sr. Testing Engineer)**	**Neeraj Upadhyay** **(Authorized Signatory)**	**Poonam Singh** **(Customer Executive)**
Dated: 21/08/2024	**Dated: 21/08/2024**	**Dated: 21/08/2024**

Plot No. 28, Badli Industrial Area Phase-II, Delhi-110042. E- mail: matrixtestlab@gmail.com
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Observation Table

Tag	Part Number	Category	SubCategory	Type	Reference Designator	Description	Quantity	Failure Rate Override	Failure Rate	Part Data	Stress Data	Quality	Pi Factors
☐		Resistor	Fixed		R36								
☐		Resistor	Fixed		R2								
☐		Resistor	Fixed		R4								
☐		Resistor	Fixed		R5								
☐		Resistor	Fixed		R6								

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate Override	Failure Rate	Part Data	Stress Data	Quality	Pi Factors
☐		Resistor	Fixed		R76								
☐		Resistor	Fixed		R2								
☐		Resistor	Fixed		R3								
☐		Resistor	Fixed		R1								
☐		Resistor	Fixed		R10								
☐		Resistor	Fixed		R9								
☐		Resistor	Fixed		R8								

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Tag	Part Number	Category	Subcategory	Type	Reference Designator	Number	Failure Rate Override	Part Rate	Part Data	Quality	π Factors
☐		Resistor	Fixed			1					
☐						1					
☐						1					
☐						1					
☐						1					
☐						1					
☐						1					

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Number	Failure Rate Override	Part Rate	Part Data	Quality	π Factors
☐			Fixed		R282	1					
☐						1					
☐			Fixed			1					
☐						1					
☐						1					
☐						1					
☐						1					

Plot No. 2B, Basti Industrial Area Phase-II, Delhi-110042 E- mail: matrixtestlab@gmail.com
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Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Qty	Failure Rate Override	Failure Rate	Part Stress	Temperature	Quality	π Factors
☐		Resistor	Film		R201		1						
☐		Diode	Fixed		R238		1						
☐		Resistor	Film		R207		1						
☐		Resistor	Film		R225		1						
☐		Resistor	Fixed		M		1						
☐		Resistor	Fixed		R33		1						
☐		Resistor	Film		R1		1						

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate Override	Failure Rate	Part Stress	Temperature	Quality	π Factors
☐		Resistor	Film		R38		1						
☐		Resistor	Film		R41		1						
☐		Resistor	Film		R34		1						
☐		Resistor	Film		R1		1						
☐		Resistor	Film		R31		1						
☐		Resistor	Film		R11		1						
☐		Resistor	Fixed		R33		1						

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Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data	Stress Data	Quality	π Factors
☐		Resistor	Film	[illegible]	R59	[illegible]	1		[illegible]	[illegible]	[illegible]	1	[illegible]
☐		Resistor	Film	[illegible]	R61	[illegible]	1		[illegible]	[illegible]	[illegible]	1	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	1	[illegible]
☐		[illegible]	Fixed	[illegible]	R63	[illegible]	1		[illegible]	[illegible]	[illegible]	1	[illegible]
☐		[illegible]	[illegible]	[illegible]	R138	[illegible]	1		[illegible]	[illegible]	[illegible]	1	[illegible]
☐		[illegible]	[illegible]	[illegible]	R300	[illegible]	1		[illegible]	[illegible]	[illegible]	1	[illegible]
☐		[illegible]	[illegible]	[illegible]	R304	[illegible]	1		[illegible]	[illegible]	[illegible]	1	[illegible]

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data	Stress Data	Quality	π Factors
☐		Resistor	Film	[illegible]	R287	[illegible]	1		[illegible]	[illegible]	[illegible]	1	[illegible]
☐		[illegible]	Fixed	[illegible]	R297	[illegible]	1		[illegible]	[illegible]	[illegible]	1	[illegible]
☐		[illegible]	[illegible]	[illegible]	R298	[illegible]	1		[illegible]	[illegible]	[illegible]	1	[illegible]
☐		[illegible]	[illegible]	[illegible]	R300	[illegible]	1		[illegible]	[illegible]	[illegible]	1	[illegible]
☐		[illegible]	Fixed	[illegible]	R1	[illegible]	1		[illegible]	[illegible]	[illegible]	1	[illegible]
☐		[illegible]	[illegible]	[illegible]	R305	[illegible]	1		[illegible]	[illegible]	[illegible]	1	[illegible]
☐		[illegible]	[illegible]	[illegible]	R306	[illegible]	1		[illegible]	[illegible]	[illegible]	1	[illegible]

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Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate	Part Data	Stress Data	Duration	π Factors
☐		Resistor	Fixed		R296		1				1	
☐							1				1	
☐							1				1	
☐							1				1	
☐							1				1	
☐							1				1	
☐							1				1	

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate	Part Data	Stress Data	Duration	π Factors
☐		Resistor	Fixed		R296		1				1	
☐							1				1	
☐							1				1	
☐							1				1	
☐							1				1	
☐							1				1	
☐							1				1	

Plot No. 95, Ranjit Industrial Area Phase-III, Delhi-110042, E- mail: matrixtestlab@gmail.com
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Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data	Stress Data	Quality	πFactors
☐		Capacitor	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	S, B	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		Capacitor	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	S, B	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	S, B	[illegible]

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data	Stress Data	Quality	πFactors
☐		Capacitor	[illegible]	[illegible]	C2	[illegible]	1		[illegible]	[illegible]	[illegible]	S, B	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Plot No. 28, Gadi Industrial Area, Phase-II, Delhi-110042, E-mail: [illegible]
Tel:- 011-49086760, 9560423023, 9700781014, 11 40039207

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Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data	Stress Data	Quality	π Factors
☐		Capacitor	[illegible]	[illegible]	C19	[illegible]	1		[illegible]	[illegible]	[illegible]	S, B	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	S, B	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	S, B	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	S, B	[illegible]

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data	Stress Data	Quality	π Factors
☐		Capacitor	Ceramic	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	S, B	[illegible]
☐		[illegible]	[illegible]	General (CK, CKR)	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	General (CK, CKR)	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	S, B	[illegible]

Plot No. 26 Sadh Industrial Area Phase-II Delhi 110042, E-mail: [illegible]
Ph:- 011-49053760, 9810422025, 9700781514, 11-40539207

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Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data	Stress Data	Qty Adj	π Factors
☐		Capacitor	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data	Stress Data	Qty Adj	π Factors
☐		Capacitor	[illegible]	[illegible]	C204	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	C224	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Plot No. 98, Sanli Industrial Area Phase-IV, Delhi-110042, E-mail: matrixtestlabs@gmail.com
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Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data	Parts Data	Quality	π Factors
☐		Capacitor	Ceramic	General (CK, CKR)	C237		1					S, B	
☐													
☐													
☐													
☐													
☐													
Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data	Parts Data	Quality	π Factors
☐		Capacitor	Ceramic	General (CK, CKR)	C1		1					S, B	
☐												S, B	
☐												S, B	
☐													
☐													
☐				General (CK, CKR)									

Plot No. 29, Basti Industrial Area, Phase-II, Delhi-110042, E-mail: matrixtestlab@gmail.com
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Tag	Part Number	Category	Subcategory	Type	Reference MIL-STD-975	Description	Quantity	Failure Rate Override	Part Data	Stress Data	Quality	π Factors
☐		Capacitor	Ceramic	[illegible]	C150	[illegible]	1		[illegible]	[illegible]	S, B	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	S, B	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	S, B	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	S, B	[illegible]
☐		Capacitor	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	S, B	[illegible]
☐		Capacitor	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	S, B	[illegible]

Tag	Part Number	Category	Subcategory	Type	Reference MIL-STD-975	Description	Quantity	Failure Rate Override	Part Data	Stress Data	Quality	π Factors
☐		Capacitor	Ceramic	General (CK, CKR)	C150	[illegible]	1		[illegible]	[illegible]	S, B	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	S, B	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	S, B	[illegible]
☐		[illegible]	[illegible]	General (CK, CKR)	[illegible]	[illegible]	1		[illegible]	[illegible]	S, B	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	S, B	[illegible]
☐		Capacitor	Ceramic	[illegible]	[illegible]	[illegible]	1		[illegible]	[illegible]	S, B	[illegible]

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Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data	Stress Data	Quality	π Factors
☐		Capacitor	Ceramic	General (CK, CKR)	C10		1					S, B	
☐													
☐													
☐													
☐												S, B	
☐													

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data	Stress Data	Quality	π Factors
☐		Capacitor			C247		1						
☐													
☐													
☐													
☐													
☐													

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Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate Override	Failure Rate	Part Data	Stress Data	Quality	π Factors
☐		Capacitor	[illegible]	General (CK, CKR)	C12	[illegible]	1		[illegible]	[illegible]	[illegible]	S, B	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate Override	Failure Rate	Part Data	Stress Data	Quality	π Factors
☐		Capacitor	Ceramic	General (CK, CKR)	C209	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
☐		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Plot No. 28 Gadh Industrial Area Phase II Delhi 110042, E mail: mtlsales@mtlgroup.com
Ph- 011-49066760, 9250422022, 9700781514, 11-40539207

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Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate Override	Failure Rate	Part Data	Stress Data	Quality	π Factors
☐		Integrated Circuit	Logic, CGA		U14	[illegible]	1		[illegible]	[illegible]		1	[illegible]
☐		[illegible]	[illegible]		U15	[illegible]	1		[illegible]	[illegible]		1	[illegible]
☐		[illegible]	[illegible]		U13	[illegible]	1		[illegible]	[illegible]		1	[illegible]
☐		[illegible]	[illegible]		U8	[illegible]	1		[illegible]	[illegible]		1	[illegible]
☐		[illegible]	[illegible]		U7	[illegible]	1		[illegible]	[illegible]			[illegible]
☐		[illegible]	[illegible]		U6	[illegible]	1		[illegible]	[illegible]			[illegible]
☐		[illegible]	[illegible]		U5	[illegible]	1		[illegible]	[illegible]			[illegible]
☐		[illegible]	[illegible]		U4	[illegible]	1		[illegible]	[illegible]			[illegible]

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate Override	Failure Rate	Part Data	Stress Data	Quality	π Factors
☐		Integrated Circuit	SAW Device		U17	[illegible]	1		[illegible]	[illegible]		[illegible]	[illegible]
☐		[illegible]	[illegible]		J2	[illegible]	1		[illegible]	[illegible]		[illegible]	[illegible]
☐		[illegible]	[illegible]		J19	[illegible]	1		[illegible]	[illegible]		[illegible]	[illegible]
☐		[illegible]	[illegible]		J18	[illegible]	1		[illegible]	[illegible]		[illegible]	[illegible]
☐		[illegible]	Power		J1	[illegible]	1		[illegible]	[illegible]		[illegible]	[illegible]
☐		[illegible]	Power		J4	[illegible]	1		[illegible]	[illegible]		[illegible]	[illegible]
☐		[illegible]	Power		J17	[illegible]	1		[illegible]	[illegible]		[illegible]	[illegible]

Plot No. 2A, Okhla Industrial Area Phase III, Delhi-110042. E-mail matrixlostlabs@gmail.com
Ph 011 49060700 [illegible]

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Tag	Part Number	Category	Subcategory	Type	Environment Designation	Description	Quantity	Failure Rate, Override	Failure Rate	More Notes	Notes	Quality	π Factors
☐		Connection	Power		J4	Conn, FPC, Receptacle, 1x11, Bottom Contact, SMT	1		0.084128	Lambda Predict Model, Prediction Method		Space	πQ 0.001, πC 1.000000, πE 1.000, λ 0.084128
☐		Inductor	Coil	Fixed or Chokes	GF	SMT Fixed Chip, 2.2uH, 20%, 1.1A, 82mΩ, Shielded, Ceramic, AEC	1		0.0000xx	Type: Fixed or Chokes, Chokes, Power Inductor		Lower	πQ 0.05, πC 1.000, πE 1.000, λ 0.000
☐		Inductor	Coil	Fixed or Chokes	GF	SMD Fixed Chip, 2.2uH, 20%, 1.1A, 82mΩ, Shielded, Ceramic, AEC	1		0.0000xx	Type: Fixed or Chokes, Chokes, Power Inductor		Lower	πQ 0.05, πC 1.000, πE 1.000, λ 0.000
☐		Inductor	Coil	Fixed or Chokes	L3	SMT Power, 4.7uH, 20%, 1.8A, 280mΩ, Shielded, AEC Q200, Ferrite	1		0.0000xx	Type: Fixed or Chokes, Chokes, Power Inductor		Space	πQ 0.45, πC 1.000, πE 1.000, λ 0.000
☐		Connection	Connector		J1	Conn, FPC, 50 MOM, Vertical, R/A, ZIF, 0.5mm Pitch, 10 Position, SMT	1		0.000000				πQ 0.001, πC 1.000, πE 1.000, λ 0.000
☐		Inductor	Coil	Ferrite Bead	FB3	Ferrite, 120Ω, 0.3A, 0402	1		0.004126	Type: Ferrite Beads, SMT Chip, Horizontal, Ferrite Type: MMZ1608B121B			
☐		Inductor	Coil	Ferrite Bead	FB4	Ferrite, 120Ω, 0.3A, 0402	1		0.004126	Type: Ferrite Beads, SMT Chip, Horizontal, Ferrite Type: MMZ1608B121B			
☐		Inductor	Coil	Ferrite Bead	FB7	Ferrite, 120Ω, 0.3A, 0402	1		0.004126	Type: Ferrite Beads, SMT Chip, Horizontal, Ferrite Type: MMZ1608B121B			

Reporting of result:

Failure Rate: 0.084128
Failure Rate Percentage: 100.00
MTBF: 903779.10
Ambient Temperature: 40°C
Quality Level: Quality Level 0
Application Environment: Ground Fixed Uncontrolled (Moderate)

Plot No. 9A, Rohil Industrial Area Phase-II, Delhi-110042, E-mail: matrixtestlab@gmail.com
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Attachment – 1 : Photographs



View of IP Camera

- The results tested refer only to tested samples and applicable parameters
- Endorsement to products is neither inferred nor implied
- Total liability of our test lab is limited to the invoiced amount.
- The report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our permission in writing.
- Report refers to the sample submitted to us and not drawn by **MATRIX TEST LABS** unless mentioned otherwise.

"End of Test Report"

Plot No. 25, Gadli Industrial Area Phase-II, Delhi-110042. E- mail: matrixtestlab@gmail.com
Ph- 011-45066760, 9540422022, 8700781514 11-40538207

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MTBF

(MODEL NO. - SC-IND52DP-I(Z)(S))

EFKON INDIA PVT. LTD.

Report No: MTL/2K24/0039/N	MIL-HDBK-217FN2	Page 1 of 14
Dated: 21/08/2024		

Manufacturer.	**SAMRIDDHI AUTOMATIONS PRIVATE LIMITED** PLOT NO. 75, SECTOR-7, IIE, SIDCUL, HARIDWAR, UTTARAKHAND, India, 249403	
Test item:	IP Camera	
Identification:	Model: **SC-IND52DP-I(Z)(S)**	*Serial No : N/A*
Rating:	12VDC, 1A	*Brand:* sparsh
Applicant's name :	**SAMRIDDHI AUTOMATIONS PRIVATE LIMITED**	
Address :	PLOT NO. 75 SECTOR-7, IIE, SIDCUL, HARIDWAR, UTTARAKHAND, India, 249403	
Receipt No.:	**0039/07/2024/N**	*Date of receipt.* **27/07/2024**
Date of Performance :	29/07/2024 to 20/08/2024	
Testing laboratory and its address	**MATRIX TEST LABS** PLOT No. 28, BADLI INDUSTRIAL AREA PHASE-II DELHI-110042	
Test specification:	**MIL-HDBK-217FN2**	
Test Report Form No.....:	**MTL/TRF/ MIL-HDBK-217FN2/V1.0**	
Test Report Form(s) Originator ..:	**MATRIX TEST LABS**	
Master TRF.....:	**25/07/2024**	
Test Result.	The result annexed in the test report.	
Other Aspects	— *This Test Report consists of* **14** *Pages including an attachment of Photographs* — *This* **IP Camera** *Model no.* ***SC-IND52DP-I(Z)(S)*** *has been tested as per* **MIL-HDBK-217FN2** *for* **MTBF.**	
This test report relates to the test sample submitted.		

Tested by:	Approved by / Authorized Signatory:	Issued by:
		POONAM Digitally signed by POONAM
Sunny Sharma **(Sr. Testing Engineer)**	**Neeraj Upadhyay** **(Authorized Signatory)**	**Poonam Singh** **(Customer Executive)**
Dated: 21/08/2024	**Dated: 21/08/2024**	**Dated: 21/08/2024**

Plot No. 28, Badli Industrial Area Phase-II, Delhi-110042, E- mail: matrixtestlab@gmail.com
Ph- 011-49066760, 9560422022, 9700761514, 11-40539207

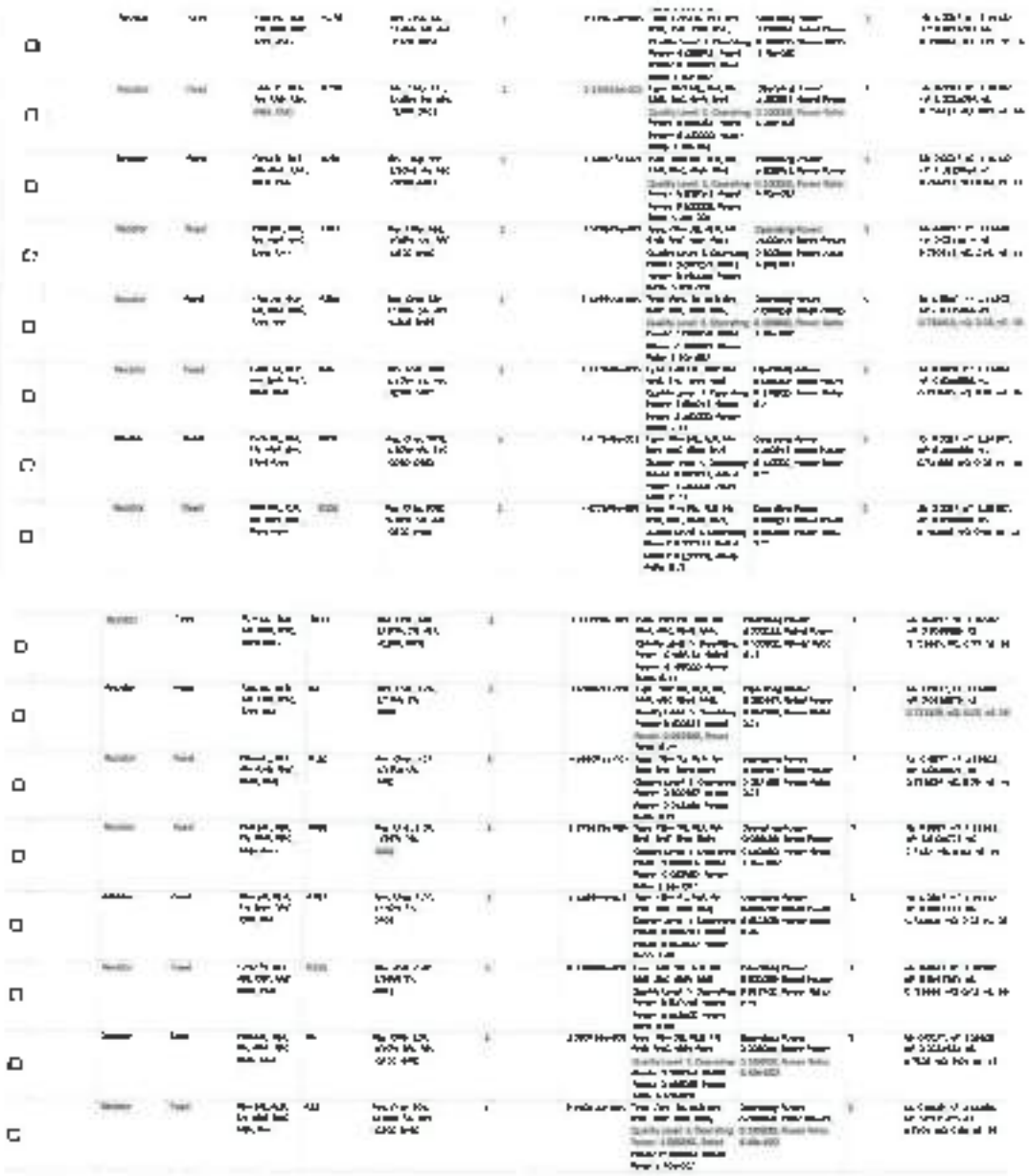
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Observation Table

Tag	Ref Designator	Reference Designator	Description	Quantity	Failure Rate Override	Failure Rate	Part Data	Stress Data	Quality	π Factors
☐		R36	Res, Chip, 6.19K, 1/10W, 1%, 0402	1						
☐										
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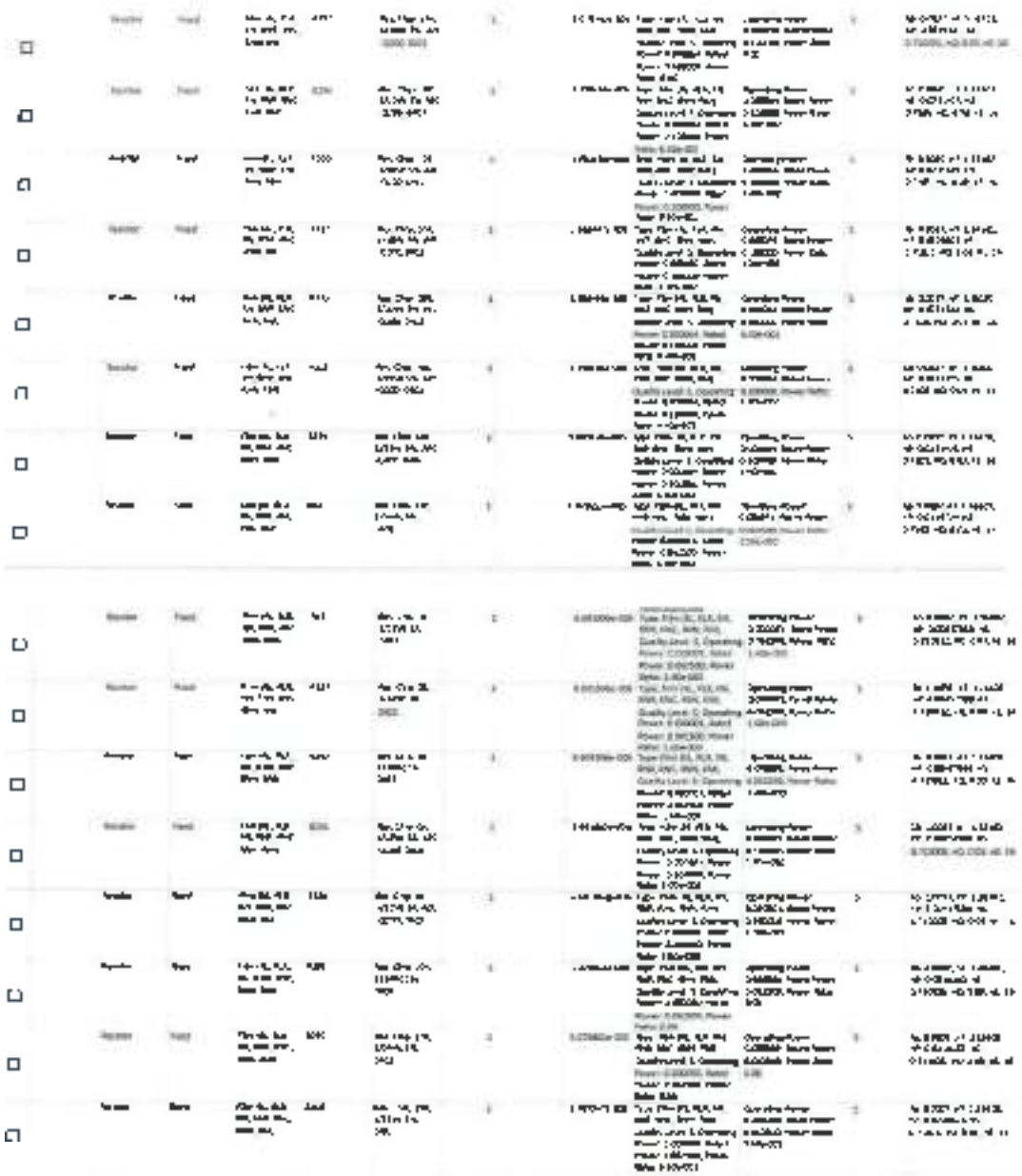
Plot No. 28, Block Industrial Area Phase-II, Delhi-110042, E- mail. mandiasvlab@gmail.com
Ph- 011-45085760, 9990422062, 9700781514, 11-40539707

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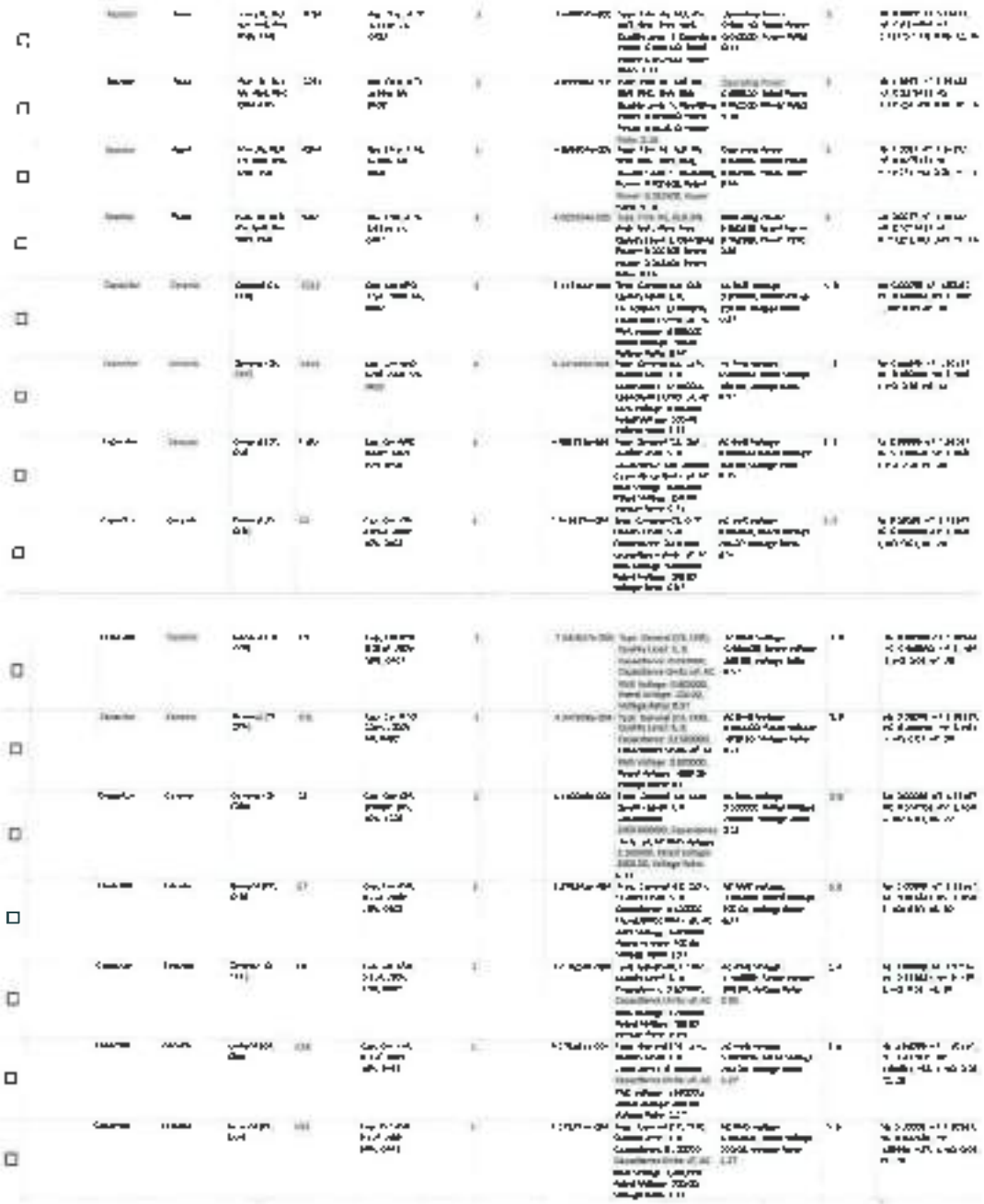
Plot No. 26, Gadli Industrial Area Phase-II Delhi-110042. E- mail: matrixtestlab@gmail.com
Ph- 011-49065760, 9250422032, 9700781514, 11-40699207

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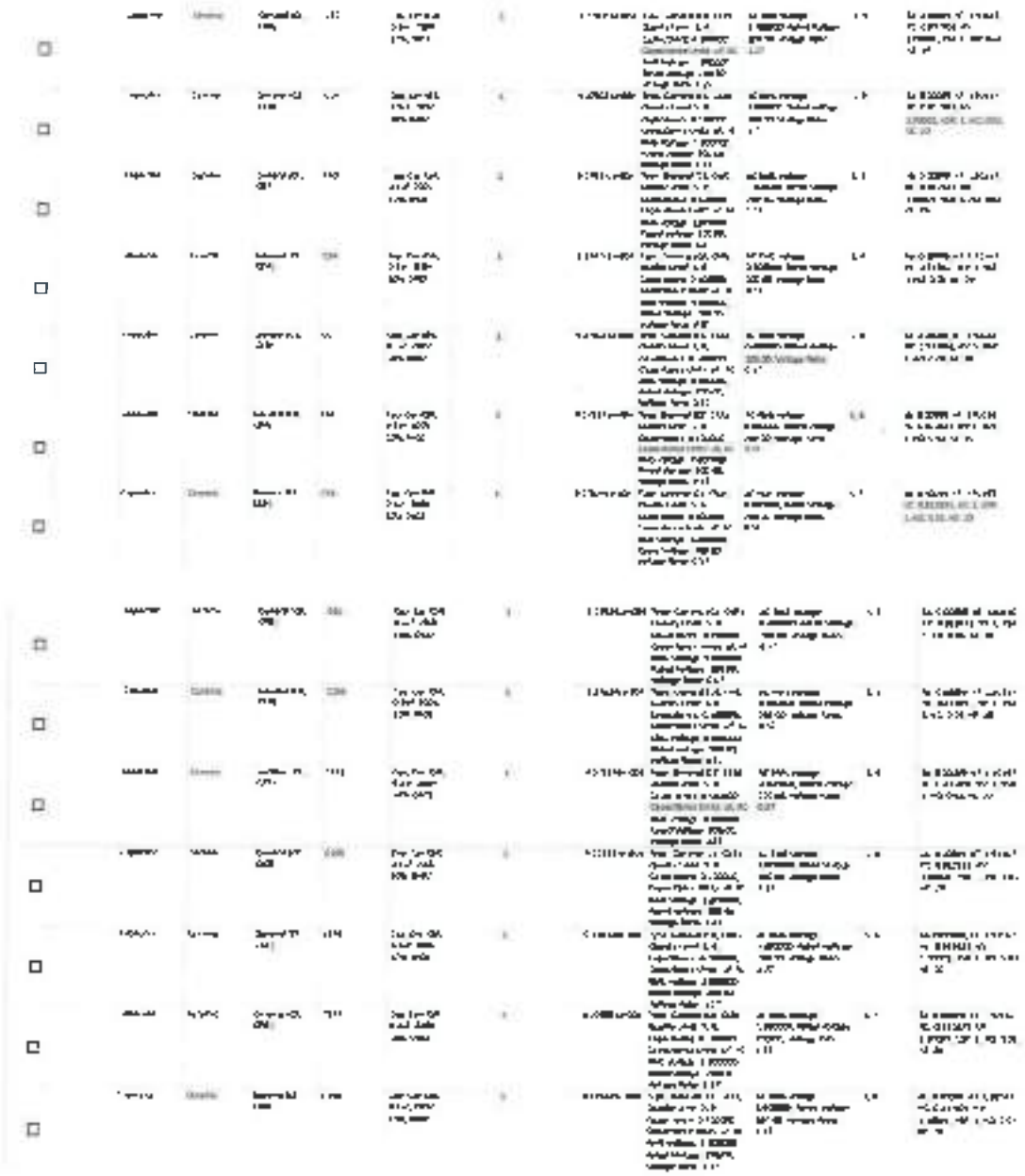
Plot No. 28, Badli Industrial Area Phase-II, Delhi-110042, E-mail: matrixtestlabs@gmail.com
PH- 011-49065760, 9540422052/9700781514, 11-40539207

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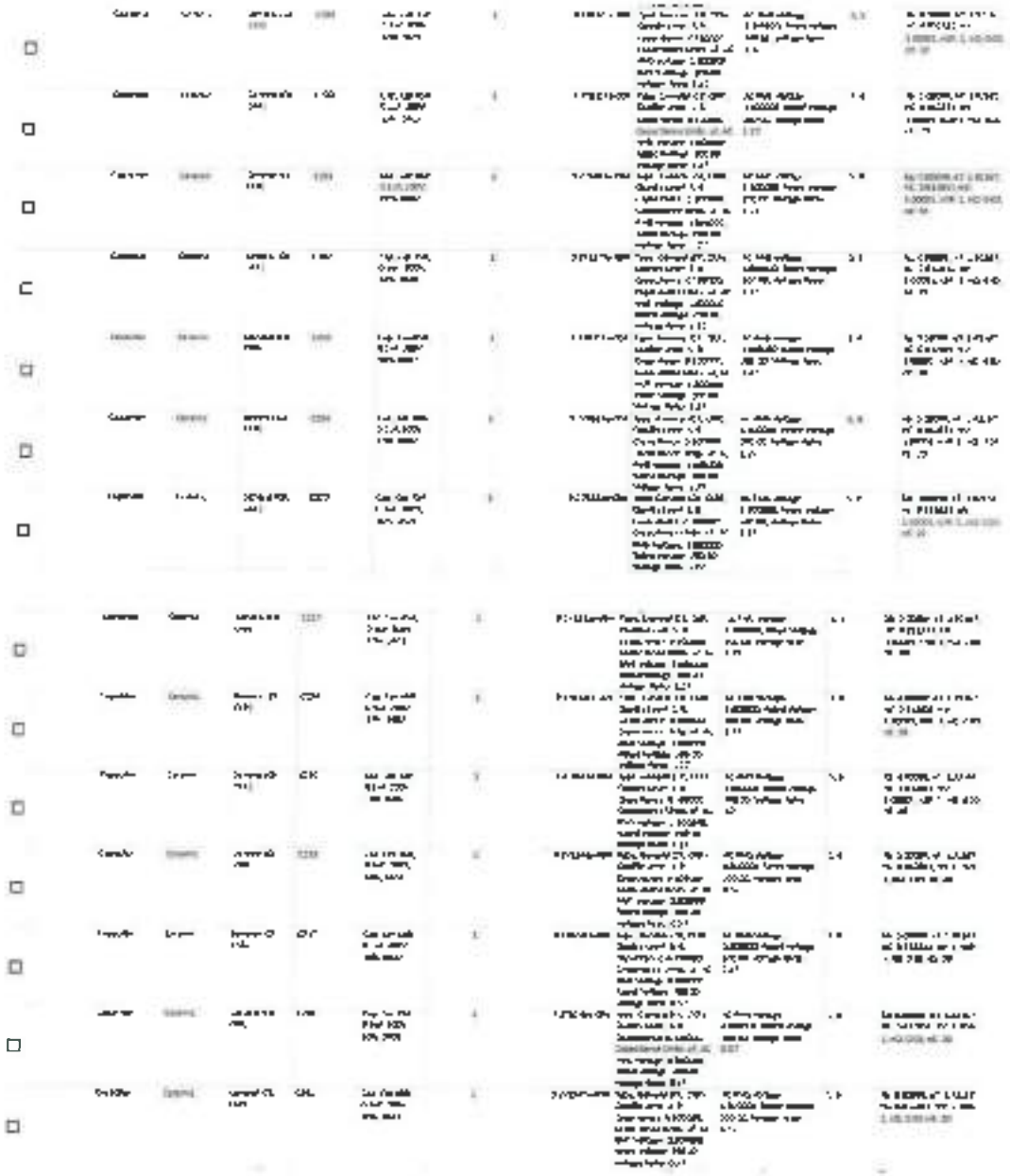
Plot No. 26, Sector Industrial Area Phase II Delhi-110042, E- mail: matrixtestlab@gmail.com
Ph- 011-49069760, 9643422032, 9700781514, 11-40539707

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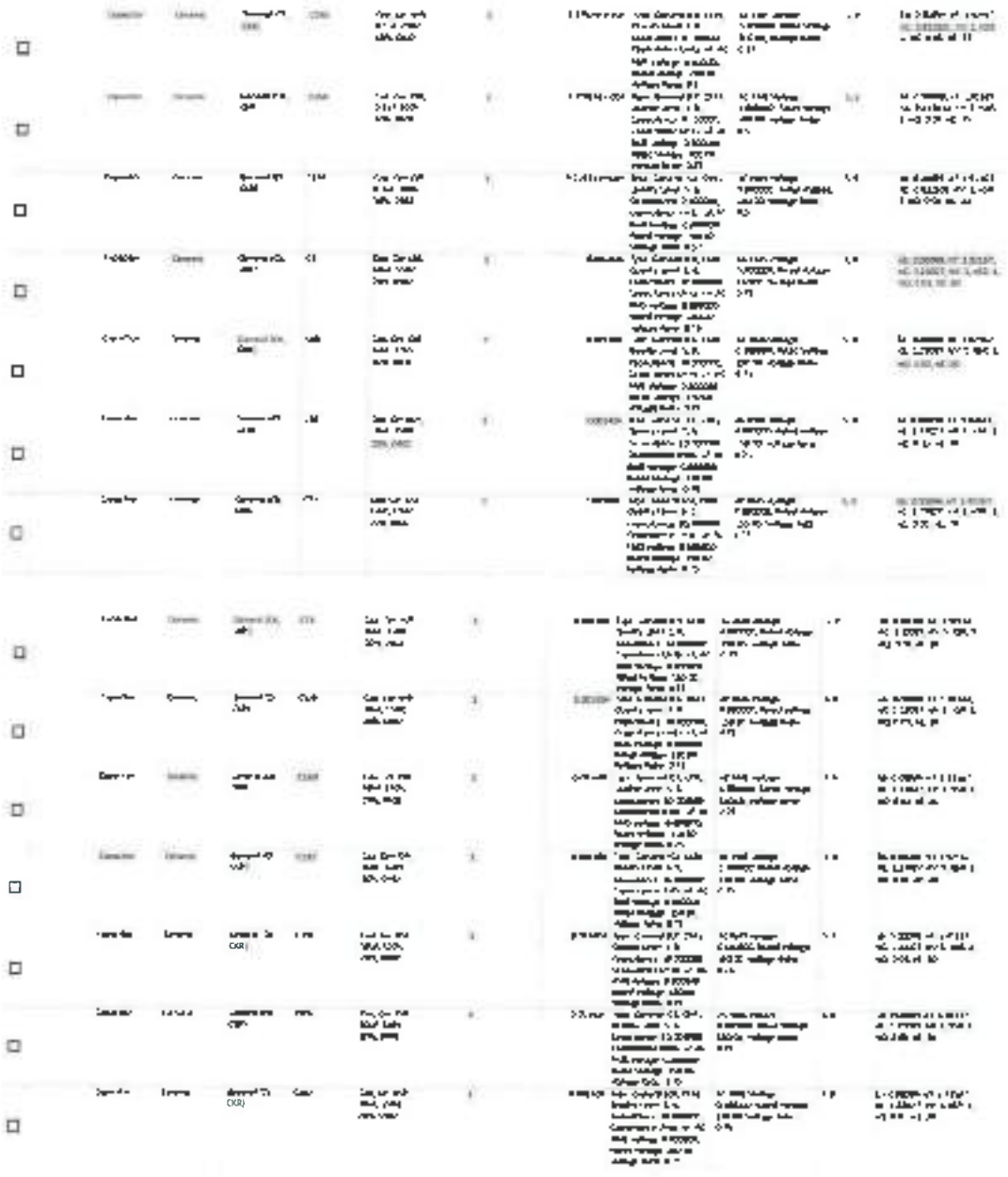
Plot No. 26, Badli Industrial Area Phase-II, Delhi-110042. E-mail, matrixtestlabs@gmail.com
Ph- 011-49065760, 9540422002, 9700781514, 11 40539207

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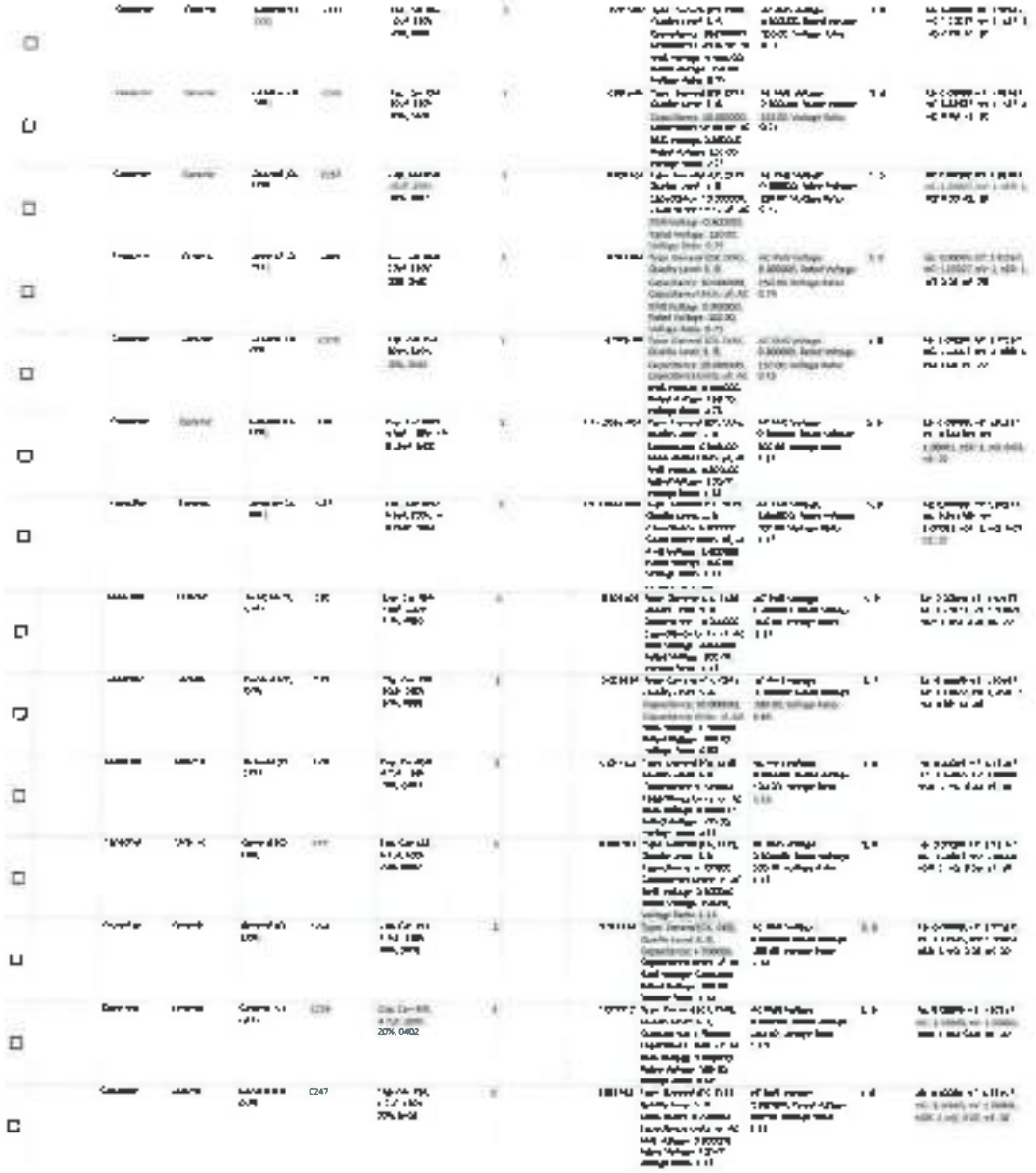
Plot No. 28, Sadh Industrial Area, Phase-II, Delhi-110042, E-mail: matrixtestlabs@gmail.com
Ph: 011-45035760, 9560422022, 8700781514, 11-40539207

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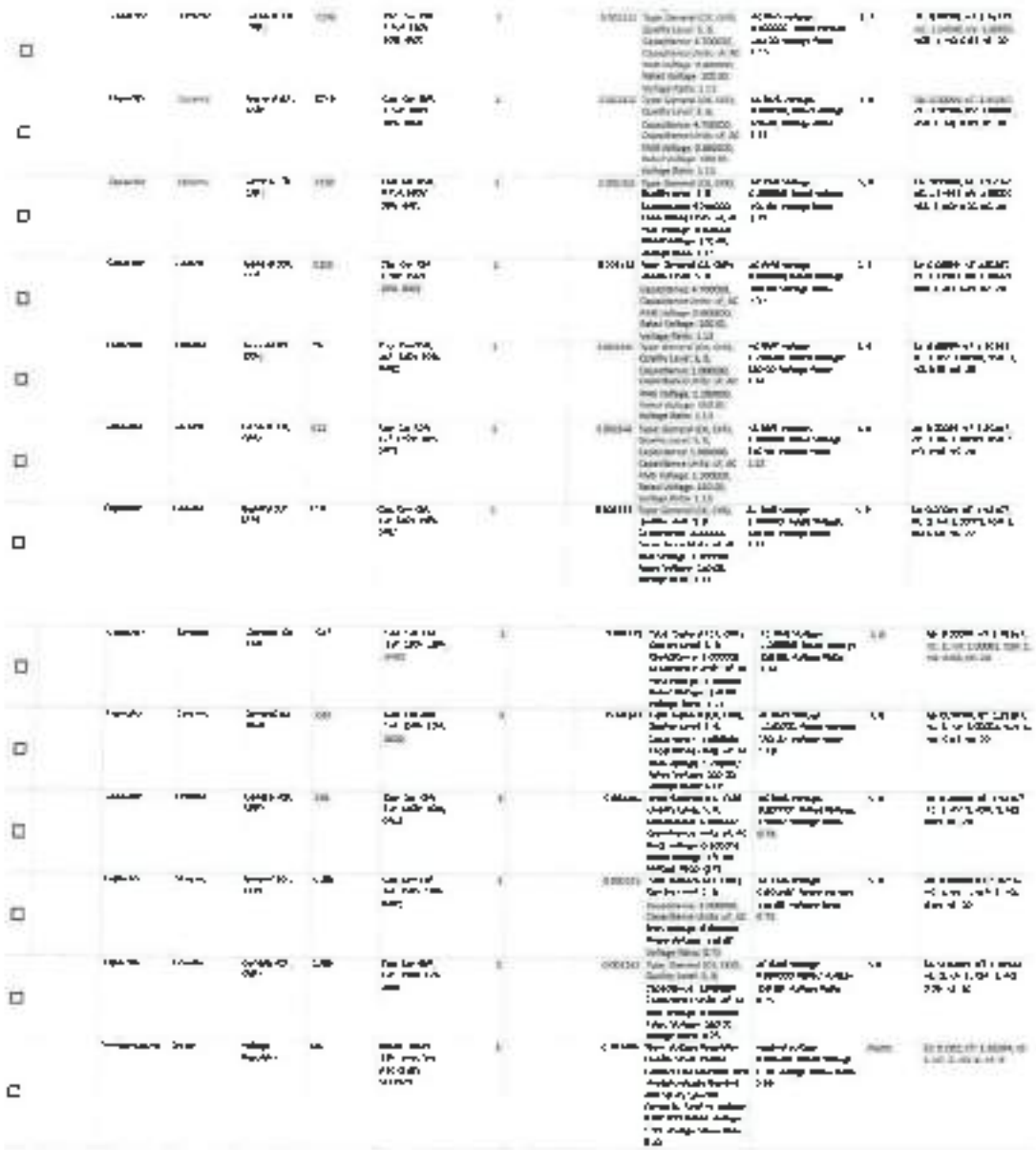
Plot No. 25, Sadil Industrial Area Phase II, Delhi 110042. E- mail: matrixtestlab@gmail.com
Ph- 011-49055760, 9250422022, 9700781614, 11-40532207

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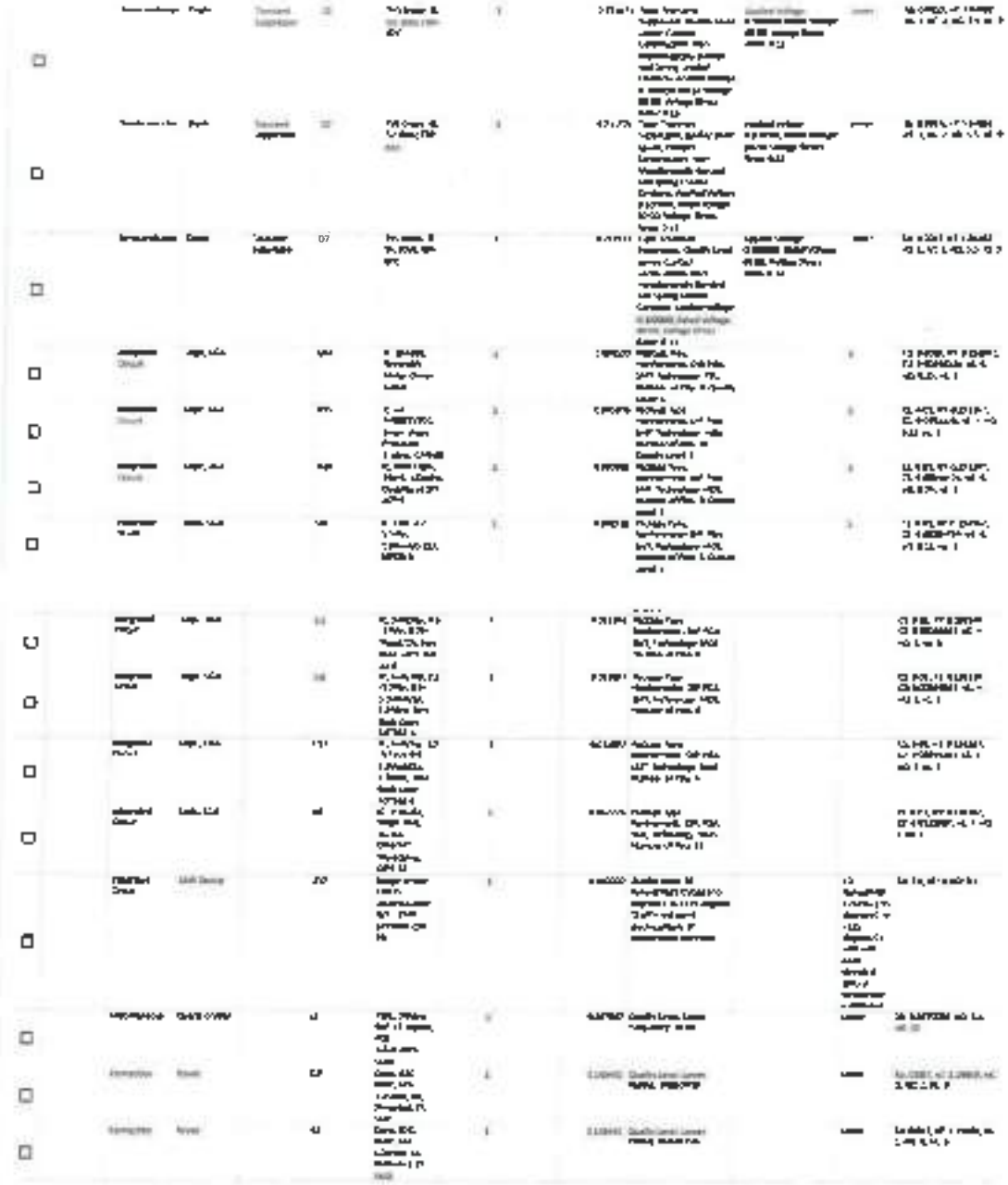
Plot No. 28, Sector Industrial Area Phase II, Delhi-110042, E- mail: matrixtestlabs@gmail.com
Ph: 011-49088780, Cell: 9212429, 9700781514, 11-40539907

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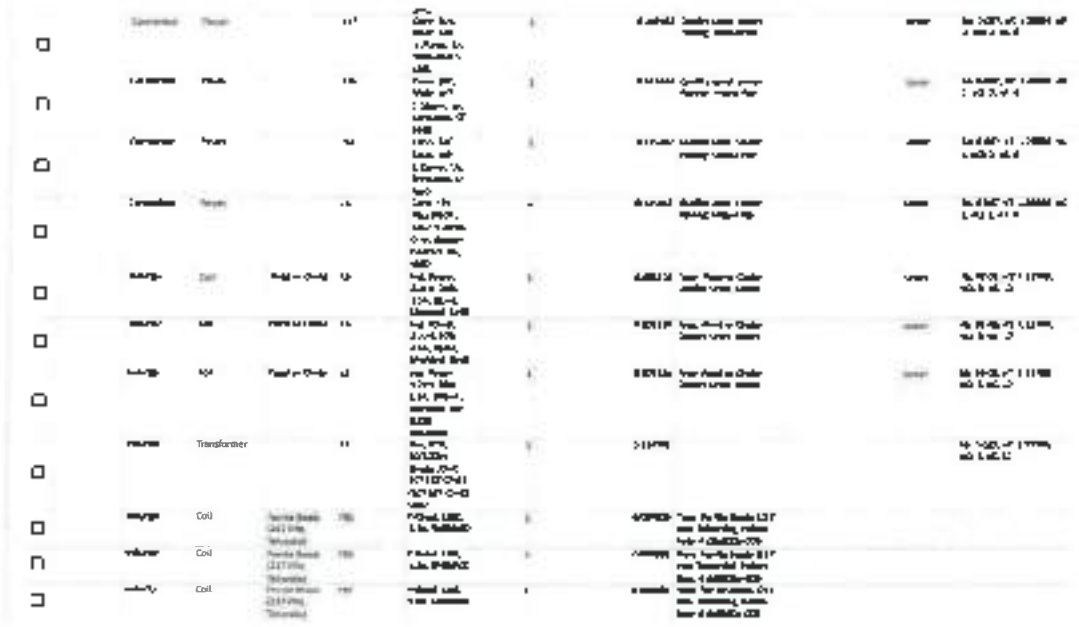
Plot No. 28, Bodil Industrial Area Phase-II, Delhi-110042, E-mail: matrixtestlab@gmail.com
PH- 011-43066760, 9250422032/ 8700781514, 11 40539207

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Ph- 011-49056700, 9810422022, 9700781614, 11-40539207

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Reporting of result

Failure Rate: 3.888916
Failure Rate Percentage: 100.00
MTBF: 257273.39
Ambient Temperature: 40°C
Quality Level: Quality Level 0
Application Environment: Ground, Fixed, Uncontrolled (Moderate)

Plot No. 28, Qadi Industrial Area Phase II, Delhi-110042. E- mail: matrixtestlab@gmail.com
Ph- 011 49060760, 9540422902, 8700781514, 11-40539207

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Attachment – 1 : Photographs



View of IP Camera

- The results / goods refer only to tested samples and applicable parameters.
- Endorsement to products is neither inferred nor implied
- Total liability of our test lab is limited to the invoiced amount.
- The report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our permission in writing
- Report refers to the sample submitted to us and not drawn by **MATRIX TEST LABS** unless mentioned otherwise

"End of Test Report"

Plot No. 25, Badli Industrial Area Phase-II, Delhi-110042, E- mail: matrixtestlabs@gmail.com
Ph: 011-49088700, 9810422062, 9700781544, 11-46539207

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OWASP L2 Appendix "C"
CERTIFICATES



(MODEL NO. - SS-EN212P-(I))

EFKON INDIA PVT. LTD.

sparsh cctv

IoT System Certification Scheme (IoTSCS)

Government of India

Ministry of Electronics & Information Technology, STQC Directorate

6, CGO Complex, New Delhi 110003

Certificate of Product Evaluation

Certificate Number: STQC/IOTSCS/0134/805

Product Name: Sparsh PTZ

OEM: M/s Samriddhi Automations Pvt. Ltd., Plot No. 75, Sector-7, IIE Sidcul, Haridwar 249403, Uttarakhand (India)

Manufacturer: M/s Samriddhi Automations PVT. LTD., Plot No. 75, Sector-7, IIE Sidcul, UK, Haridwar 249403, Uttarakhand (India)

Supplier: -

Security Level: L2 of ASVS v4.0 Appendix C- Internet of Things Verification Requirements

The product identified in the certificate has been evaluated under the terms and conditions of the IoT System Certification Scheme (IoTSCS) at Electronics Regional Test Laboratory (North), 5 Block, Okhla Industrial Area, Phase II, New Delhi 110020 for conformance to the ISO/IEC 27400 (Testing Specification as per OWASP Application Security Verification Standard v4.0 - Appendix C: Internet of Things Verification Requirements).

This certificate applies only to specific version and release of the product in its evaluated configuration (Refer Annexures for Hardware & Model Numbers).

This certificate is not an endorsement of the product by any agency of the Government of the India and no warranty of the product is either expressed or implied.

Note

1. The statement of compliance will be null and void if there is any change in product and/or if any new vulnerability is discovered.
2. The scope of assessment is limited to device only. The device may be considered for deployment with the recommendation that the following shall be considered while configuring the device for video streaming protocols: i. Streaming protocol (RTSP over HTTPS) is secure and may be used for INTERNET/INTRANET environment. ii. Streaming protocol (RTSP over TLS) with digest based authentication shall only be used in the INTRANET environment i.e., where the device shall not be connected on public networks.

Date of Issue: 27.06.2024

Certificate Expiry: 26.05.2027

Head IoTSCS Certification Body

STQC

SAMRIDDHI AUTOMATIONS PVT. LTD.

Corporate Office: F-365, Sector-63, Noida-201307, U.P. (India) | Tel: +91 120 4510 900, Toll Free: 18001020624

Manufacturing Office: Plot No. 75, Sector 7, IIE, SIDCUL, Haridwar-249403, Uttarakhand (India) | tel: +91 1334 645011

Reg. Office: H4-B/3A, GF, Malviya Vihar, Sec-1, Dwarka, New Delhi-75 | Phone: [illegible] | tel: +1 417 418 9771

Email: info@sparshsecuritech.com , sales@sparshsecuritech.com | Website: www.sparshsecuritech.com

Branch Office: Delhi · Mumbai · Kolkata · Bangalore · Lucknow · Chennai · Nagpur · Bhubaneswar · Raipur · Patna · Jammu · Chandigarh · Ludhiana · Panipat · Chhindwara · Himachal Pradesh

CIN: U32106DL2005PTC144203

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Annexure to IoTSCS Certificate Number: STQC/IOTSCS/2024/006

The product below has been evaluated under the terms of IoT System Certification Scheme (IoTSCS) and met the standard ISO/IEC 27400 (Testing specification as per OWASP Application Security Verification Standard v4.0 - Appendix C: Internet of Things Verification Requirements L2)

Reference Standards	ISO/IEC 27400 : 2022 (Testing Specification as per OWASP Application Security Verification Standard v4.0 - Appendix C: Internet of Things Verification Requirements L2 [Testing checkpoints]
Product Name, Model & Version	Sparsh PT2 [SS-EM212-(I) , SS-EM412-(I) , SS-IND212-(I) , SS-IND412-(I) , SS-EN212P-(I), SS-EN412P-(I), SS-EX202-I-B, SS-EX202-I-M, SS-EN212-(I)]
Chipset (SoC) Details & Country of Origin	Ambarella CV28 [redacted] America, United States* [redacted]
Firmware Version and Hash	Firmware Version: v 5.2 Chipset: Ambarella CV28[redacted] Hash @MD5: [redacted]
Applicable no. models of same Chipset	Refer Annexure-A
Level	L2 of OWASP ASVS v4.0 Appendix C: Internet of Things Verification Requirements
Evaluation Lab	Electronics Regional Test Laboratory (North), Lalkuan, Okhla Industrial Area, Phase III, New Delhi-110020

Date of Issue: 27/05/2024
Certificate Expiry: 26/05/2027

Head IoTSCS Certification Body

sparsh cctv

Annexure to STQC Certificate Number: STQC/AOTSCS/IR126/025

Annexure-A

Sr. No	Model Name	Model Number
	Object: Axis Communications AB Firmware version: V5.1	
1	[illegible]	PTZ
2	[illegible]	PTZ
3	[illegible]	PTZ
4	[illegible]	PTZ
5	[illegible]	PTZ
6	[illegible]	PTZ
7	[illegible]	PTZ
8	[illegible]	PTZ
9	[illegible]	PTZ
10	[illegible]	PTZ

Annexure-B

Sr.No	Make/Model	IEEE Make Model	IEEE Make (Software)
1	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]

Page 3 of 3

(MODEL NO. - SC-IND22XP-I(Z)(S))



sparsh cctv

IoT System Certification Scheme (IoTSCS)

Government of India

Ministry of Electronics & Information Technology, STQC Directorate

6, CGO Complex, New Delhi 110003

Certificate of Product Evaluation

Certificate Number: STQC/IOTSCS/0921/00101

Product Name: Sparsh IPC Dome, Bullet & Box Camera

OEM: M/s Samriddhi Automations PVT LTD Plot No.75, Sector-7, IIE SIDCUL, HARIDWAR 249403, UTTARAKHAND(India)

Manufacturer: M/s Samriddhi Automations PVT LTD. Plot No.75, Sector-7, IIE SIDCUL, HARIDWAR 249403, UTTARAKHAND(India)

Supplier:

Security Level: L2 of ASVS v4.0 Appendix C: Internet of Things Verification Requirements

The product identified in the certificate has been evaluated under the terms and conditions of the IoT System Certification Scheme (IoTSCS), at Electronics Regional Test Laboratory (North), 5 Block, Okhla Industrial Area, Phase II, New Delhi 110020 for conformance to the ISO/IEC 27400 (Testing Specification as per OWASP Application Security Verification Standard v4.0 - Appendix C: Internet of Things Verification Requirements).

This certificate applies only to specific version and release of the product in its evaluated configuration (Refer Annexure for details & Model Numbers).

This certificate is not an endorsement of the product by any agency of the Government of the India and no warranty of the product is either expressed or implied.

Note:

Date of Issue: 06.05.2021

Certificate Expiry: 05.05.2024

Head IoTSCS Certification Body

STQC

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Manufacturing Office: Plot No. 75, Sector-7, IIE, SIDCUL, Haridwar-249403, Uttarakhand (India) Tel: +91 1334 645011

Reg. Office: HN-871A, G/F, Malviya Nagar, Sec-1, Dwarka, New Delhi Overseas Office: USA | Tel: +1 412 9103973

Email: info@sparshsecuritech.com ; sales@sparshsecuritech.com Website: www.sparshsecuritech.com

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CIN: U32109DL2005PTC144303

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Annexure to IoTSCS Certificate Number: STQC/IOTSCS/0922/00107

The product below has been evaluated under the terms of IoT Systems Certification Scheme (IoTSCS) and met the standard ISO/IEC 27400 (Testing Specification as per Annexure of Things Verification Requirements, OWASP Appendix C: Application Security Verification Standard v4.0

Reference Standards	ISO/IEC 27400 (Testing Specification as per OWASP Application Security Verification Standard v4.0 - Appendix C: Internet of Things Verification Requirements L2 (Testing checkpoints)
Product Name, Model & Variants	Sparsh IPC [SC-IL22BP-IZ(S), SC-IL22DP-IZ(S), SC-IL22XP-IZ(S), SC-IND22BP-IRZ(S), SC-IND22DP-IZ(S), SC-IND22XP-IZ(S), SC-IND42BP(IZ)(S), SC-IND42DP-IZ(S), SC- IND42XP-IZ(S)], Dome, Bullet & Box Camera
Chipset (SoC) Details & Country of Origin	AmbarellaCV28S33M & Santa Clara, California, United States*
Firmware Version No & Hash	Firmware Version: V S 1 Chipset: AmbarellaCV28S33M Hash [SHA5]: aa3654e6b59dfc0d12ad2cc0fe2 5bf849
Applicable previous or same Chipset & Firmware	Refer Page 2 of 2
Level	L2 of OWASP ASVS v4.0 Appendix C: Internet of Things Verification Requirements
Evaluation Lab	Electronics Regional Test Laboratory (North) 5 Block, Okhla Industrial Area, Phase II, New Delhi 110020

Date of Issue: 06.09.2022
Certificate Expiry: 05.09.2026

Head IoTSCS Certification Body

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Manufacturing Office: Plot No. 75, Sector-7, IIE SIDCUL, Haridwar-249403, Uttarakhand (India) | Tel: +91 1334-645011
Reg. Office: HN-8/3A, G/F, Mohavir Vihar, Sec-1, Dwarka, New Delhi-78 | Overseas Office: USA | Tel: +1 412 418 8973
Email: info@sparshsecuritech.com | sales@sparshsecuritech.com | Website: www.sparshsecuritech.com
Branch Offices: Delhi | Mumbai | Kolkata | Bangalore | Lucknow | Chennai | Nagpur | Bhubaneswar | Raipur | Patna | Jammu
Chandigarh | Ludhiana | Panipat | Dehradun | Himachal Pradesh
CIN: U32306DL2005PTC144203

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Annexure to IoT/CS Certificate Number: STQC/IOT/CS/0922/Rev.01

Sr. No	Model Name	Model Number
	Chipset: Ambarella CV25S33M, Firmware version: V5.1	
1	SC-IL22DP-I(Z)(S)	Dome Camera
2	SC-IL22BP-I(Z)(S)	Bullet Camera
3	SC-IL22XP-I(Z)(S)	Box Camera
4	SC-IND22DP-I(Z)(S)	Dome Camera
5	SC-IND22BP-I(Z)(S)	Bullet Camera
6	SC-IND22XP-I(Z)(S)	Box Camera
7	SC-IKD42DP-I(Z)(S)	Dome Camera
8	SC-IKD42BP-I(Z)(S)	Bullet Camera
9	SC-IND42XP-I(Z)(S)	Box Camera

Date of Issue: 05.09.2023
Certificate Expiry: 05.09.2026

Head of STQC Certification Body

STQC

(MODEL NO. - SC-IND52DP-I(Z)(S))



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IoT System Certification Scheme (IoTSCS)

Government of India

Ministry of Electronics & Information Technology, STQC Directorate

6, CGO Complex, New Delhi 110003

Certificate of Product Evaluation

Certificate Number: STQC/IOTSCS/DEC23/004

Product Name: Sparsh IPC Dome, Bullet & Box Camera

OEM: M/s Samriddhi Automations PVT LTD Plot No 75, Sector 7, IIE SIDCUL, HARIDWAR 249403, UTTARAKHAND(India)

Manufacturer: M/s Samriddhi Automations PVT LTD. Plot No.75, Sector 7, IIE SIDCUL HARIDWAR 249403, UTTARAKHAND(India)

Supplier: –

Security Level: L2 of AS/S v4.0 Appendix C: Internet of Things Verification Requirements

The product identified in the certificate has been evaluated under the terms and conditions of the IoT System Certification Scheme (IoTSCS), at Electronics Regional Test Laboratory (North), 5 Block, Okhla Industrial Area, Phase II, New Delhi 110020 for conformance to the ISO/IEC 27400 (Testing Specification as per OWASP Application Security Verification Standard v4.0 - Appendix C: Internet of Things Verification Requirements).

This certificate applies only to specific version and release of the product in its evaluated configuration (Refer Annexure for details & Model Numbers).

This certificate is not an endorsement of the product by any agency of the Government of the India and no warranty of the product is either expressed or implied.

Date of Issue: 06.09.2023

Certificate Expiry: 05.09.2026

Head IoTSCS Certification Body

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Reg. Office: H-673A, G/F, Malviya Vihar, Sec-3, Dwarka, New Delhi – 75 | Overseas Office: USA | Tel.: +1 412 418 8973

Email: info@sparshsecuritech.com | sales@sparshsecuritech.com | Website: www.sparshsecuritech.com

Branch Office: Delhi | Mumbai | Kolkata | Bangalore | Lucknow | Chennai | Nagpur | Bhubaneswar | Raipur | Patna | Jammu | Chandigarh | Ludhiana | Panipat | Chhindwara | Himachal Pradesh

CIN: U32106DL2005PTC144203

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Annexure to IoTSCS Certificate Number: STQC/IOTSCS/0823/004

The product below has been evaluated under the terms of IoT Systems Certification Scheme (IoTSCS) and Test Standard ISO/IEC 27400 (Testing Specification as per OWASP Application Security Verification Standard v4.0 - Appendix C: Internet of Things Verification Requirements L2 (Testing checkpoints)

Reference Standards	ISO/IEC 27400 : 2022 (Testing Specification as per OWASP Application Security Verification Standard v4.0 - Appendix C: Internet of Things Verification Requirements L2 (Testing checkpoints)
Product Name, Model & Version	Sparsh IPC [SC-IL82BP-I(Z)(S), SC-IL82DP-I(Z)(S), SC-IL82ZP-I(Z)(S), SC-IND82BP-H(Z)(S), SC-IND82DP-I(Z)(S), SC-IND82IP-I(Z)(S), SC-IND82ZP-I(Z)(S), SC-IND52BP-I(Z)(S), SC-IND52DP-I(Z)(S), SC-IND52ZP-I(Z)(S)] Dome, Bullet & Box Camera
Chipset (SoC) Details & Country of Origin	AmbarellaCV28568M, & Santa Clara, California, United States*
Firmware Version No. & Hash	Firmware Version: V 5.1 Chipset: AmbarellaCV28568M Hash (MD5): 6f3383a06656e08b3490eef53d5fe25
Applicable to Models of same Chipset & Firmware	Refer Page 3 of 3
Level	L2 of OWASP ASVS v4.0 Appendix C: Internet of Things Verification Requirements
Evaluation Lab	Electronics Regional Test Laboratory (North), 5 Block, Okhla Industrial Area, Phase III, New Delhi 110020

Date of Issue: 06.09.2023
Certificate Expiry: 05.09.2026

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Manufacturing Office: Plot No. 75, Sector-7, IIE, SIDCUL, Haridwar-249403, Uttarakhand (India) | Tel.: +91 1334-645011
Reg. Office: HN-8/3A, G/F, Nizamuddin West, Sec-1, Dwarka, New Delhi-75 | Overseas Office: USA | Tel.: +1 412 418 8973
Email: Info@sparshsecuritech.com | sales@sparshsecuritech.com | Website: www.sparshsecuritech.com
Branch Offices: Delhi | Mumbai | Kolkata | Bangalore | Lucknow | Chennai | Nagpur | Bhubaneswar | Raipur | Patna | Jammu
Chandigarh | Vadodara | Panipat | Chhindwara | Himachal Pradesh | CIN: U32106DL2005PTC144203

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Annexure to IoTSCS Certificate Number: STQC/IOTSCS/0813/804

Sr. No	Model Name	Model Number
	Chipset: Ambarella CV28S66M, Firmware version: V5.1	
1	SC-IND8200P-I[2][8]	Dome Camera
2	SC-IND8[2]00P-I[2][8]	Bullet Camera
3	SC-IND8200P-I[2][8]	Box Camera
4	SC-IND5200P-I[2][8]	Dome Camera
5	SC-IND5200P-I[2][8]	Bullet Camera
6	SC-IND5200P-I[2][8]	Box Camera
7	SC-IL4200P-I[2][8]	Dome Camera
8	SC-IL4200P-I[2][8]	Bullet Camera
9	SC-IL4200P-I[2][8]	Box Camera

Date of Issue: 06.09.2021
Certificate Expiry: 05.09.2024

Head of STQC Certification Body

STQC

SAMRIDDHI AUTOMATIONS PVT. LTD.
Corporate Office: F-165, Sector-63, Noida-201307, U.P.(India) | Tel.:+91 1204618 900 Toll Free: 18001020524
Manufacturing Office: Plot No 75, Sector-7, RE-SIDCUL, Haridwar-249403, Uttarakhand (India) | Tel.:+91 1334 645041
Reg. Office: HN-8/9A, G/F, Mahavir Vihar, Sec-1, Dwarka, New Delhi – 7 | Overseas Office: USA | Tel.: +1 412 418 8973
Email: info@sparshsecuritech.com | sales@sparshsecuritech.com | Website: www.sparshsecuritech.com
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CIN: U32304DL2009PTC192203

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(MODEL NO. - SC-IND52BP-I(Z)(S))

EFKON INDIA PVT. LTD.

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IoT System Certification Scheme (IoTSCS)

Government of India

Ministry of Electronics & Information Technology, STQC Directorate

6, CGO Complex, New Delhi-110003

Certificate of Product Evaluation

Certificate Number: STQC/IOTSCS/0823/004

Product Name: Sparsh IPC Dome, Bullet & Box Camera

OEM: M/s Samriddhi Automations Pvt Ltd, Plot No-75, Sector-7, IIE SIDCUL, HARIDWAR (249403), UTTARAKHAND(India)

Manufacturer: M/s Samriddhi Automations Pvt Ltd, Plot No-75, Sector-7, IIE SIDCUL, HARIDWAR (249403), UTTARAKHAND(India)

Supplier: –

Security Level: L2 of ASVS v4.0 Appendix C: Internet of Things Verification Requirements

The product identified in the certificate has been evaluated under the terms and conditions of the IoT System Certification Scheme (IoTSCS), at Electronics Regional Test Laboratory (North), 5 Block, Okhla Industrial Area, Phase II, New Delhi 110020 for conformance to the ISO/IEC 27400 (Testing Specification as per OWASP Application Security Verification Standard v4.0 - Appendix C: Internet of Things Verification Requirements).

This certificate applies only to specific version and release of the product in its evaluated configuration [Refer Annexure for details & Model Numbers].

This certificate is not an endorsement of the product by any agency of the Government of the India and no warranty of the product is either expressed or implied.

Date of Issue: 06.09.2023

Certificate Expiry: 05.09.2026

Head IoTSCS Certification Body

STQC

SAMRIDDHI AUTOMATIONS PVT. LTD.

Corporate Office: F-365, Sector-63, Noida-201307, U.P.(India) | Tel.: +91 1204518900 | Toll Free: 18001020524

Manufacturing Office: Plot No. 75, Sector-7, IIE, SIDCUL, Haridwar-249403, Uttarakhand (India) | Tel.: +91 3334 645011

Reg. Office: H-873A, G/F, Mahavir Vihar, Sec-1, Dwarka, New Delhi-75 | Overseas Office: USA | Tel.: +1 612 436 6973

Email: info@sparshsecuritech.com | sales@sparshsecuritech.com | Website: www.sparshsecuritech.com

Branch Office: Delhi | Mumbai | Kolkata | Bangalore | Lucknow | Chennai | Nagpur | Bhubaneswar | Raipur | Patna | Jammu | Chandigarh | Ludhiana | Panipat | Chinchwara | Himachal Pradesh | CIN: U32109DL2015PTC344203

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Annexure to IoTSCS Certificate Number: STQC/IOTSCS/0823/084

The product below has been evaluated under the scheme of IoT Systems Certification Scheme (IoTSCS) and test the standard IS/IEC 27400 (Testing Specifications as per OWASP Application Security Verification Standard v4.0 - Appendix C: Internet of Things Verification Requirements) L2 (Testing Environment)

Reference Standards	ISO/IEC 27400 - 2022 (Testing Specification as per OWASP Application Security Verification Standard v4.0 - Appendix C: Internet of Things Verification Requirements) L2 (Testing Environment)
Product Name, Model & Version	Sparsh IPC | SC-IL82BP-I(2)(S), SC-IL82DP-I(2)(S), SC-IL82XP-I(2)(S), SC-IN08280P-MZ(S), SC-IN08220P-IR2(S), SC-IN08MP-MZ(S), SC-IN08320P-IR2(S), SC-IN08360P-IR2(S), SC-IN08520P-I(2)(S) | Dome, Bullet & Box Camera
Chipset (SoC) Details & Country of Origin	AmbarellaCV28M66M, & Santa Clara, California, United States*
Firmware Version No. & Hash	**Firmware Version:** V 5.1 **Chipset:** AmbarellaCV28M66M **Hash (MD5):** 6f3383a06656e08b3490eef53d5fe25
Applicable models of same Chipset & Firmware	Refer Page 1 of 3
Level	L2 of OWASP ASVS v4.0 Appendix C: Internet of Things Verification Requirements
Evaluation Lab	Electronics Regional Test Laboratory (North), S Block, Okhla Industrial Area, Phase II, New Delhi-110020

Date of Issue: 06.09.2023
Certificate Expiry: 05.09.2026

Head IoTSCS Certification Body

STQC

SAMRIDDHI AUTOMATIONS PVT. LTD.
Corporate Office: F-365, Sector-63, Noida-201307, U.P. (India) | Tel.: +91 120 4618 900 | Toll Free: 18001020324
Manufacturing Office: Plot No. 75, Sector-7, IIP, SIDCUL, Haridwar-249403, Uttarakhand (India) | Tel.: +91 1334 645011
Reg. Office: N4-B73A, G/F, Mohan Vihar, Sec-1, Dwarka, New Delhi-75 | Overseas Office: USA | Tel.: +1 412 418 8973
Email: info@sparshsecuritech.com | sales@sparshsecuritech.com | Website: www.sparshsecuritech.com
Branch Offices: Delhi | Mumbai | Kolkata | Bangalore | Lucknow | Chennai | Nagpur | Bhubaneswar | Raipur | Patna | Jammu
Chandigarh | Ludhiana | Panipat | Dehradun | Himachal Pradesh

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Annexure to IoTSCS Certificate Number: STQC/IOTSCS/2023/454

Sr. No	Model Name	Model Number
	Chipset: AmbarellaCV28S66M, Firmware version: V5.1	
1	SC-IND8203P-I(2)(S)	Dome Camera
2	SC-IBU8203P-I(2)(S)	Bullet Camera
3	SC-IVD8203P-I(2)(S)	Box Camera
4	SC-IND5203P-I(2)(S)	Dome Camera
5	SC-IBU5203P-I(2)(S)	Bullet Camera
6	SC-IVD8203P-I(2)(S)	Box Camera
7	SC-IUR3DP-I(2)(S)	Dome Camera
8	SC-IUR2BP-I(2)(S)	Bullet Camera
9	SC-IUR2XP-I(2)(S)	Box Camera

Date of Issue: 06.09.2023
Certificate Expiry: 05.09.2028

Head IoTSCS Certification Body

STQC

SAMRIDDHI AUTOMATIONS PVT. LTD.
Corporate Office: F-365, Sector-63, Noida-201307, U.P. (India) | Tel.: +91 1204618900 | Toll Free: 18001020524
Manufacturing Office: Plot No. 75, Sector-7, IIE, SIDCUL, Haridwar-249403, Uttarakhand (India) | Tel.: +91 1334 449011
Reg. Office: M-87JA, G/F, Mehrotra Vihar, Sec-1, Dwarka, New Delhi-78 | Overseas Office, USA | Tel.: +14124188973
Email: info@sparshsecuritech.com | sales@sparshsecuritech.com | Website: www.sparshsecuritech.com
Branch Office: Delhi | Mumbai | Kolkata | Bangalore | Lucknow | Chennai | Nagpur | Bhubaneswar | Raipur | Patna | Jammu | Chandigarh | Ludhiana | Panipat | Chhindwara | Himachal Pradesh | CIN: U32106DL2005PTC144203

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ESSENTIAL REQUIREMENTS
(STQC - CERTIFICATES)

EFKON INDIA PVT. LTD.

(MODEL NO. - SS-EN212P-(I))



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IoT System Certification Scheme (IoTSCS)

Government of India

Ministry of Electronics & Information Technology, STQC Directorate,

[illegible], New Delhi-110003

Certificate of Product Evaluation

Certificate Number: [illegible]

Product Name: [illegible]

OEM: [illegible]

Manufacturer: [illegible]

Supplier:

Compliance: [illegible]

The product identified in the certificate has been evaluated under the rules and conditions of the IoT System Certification Scheme (IoTSCS), at [illegible]

This certificate applies only to specific version and release of the product in its evaluated configuration (Refer Annexure for details & detailed Remarks).

This certificate is not an endorsement of the product by any agency of the Government of the India and no warranty of the product is either expressed or implied.

Note:

[illegible]

Certificate may be verified by scanning the QR

[illegible]

Head of IoTSCS Certification Body

[illegible]

Certificate Valid Upto: [illegible]

STQC

SAMRIDDHI AUTOMATIONS PVT. LTD.
Corporate Office: F-365, Sector-63, Noida-201307 U.P. (India) Tel.:+91 120-4548 900 Toll Free: 18001020524
Manufacturing Office: Plot No. 75 Sector-7, IIE, SIDCUL, Haridwar-249403 Uttarakhand (India) Tel.: +91 1334 649011
Reg. Office: H-1/B73A, G/F, Mansarovar, Shakarpur, Delhi-110092 Overseas Office: USA Tel.: +1 412 419 8973
Email: info@sparshsecuritech.com sales@sparshsecuritech.com Website: www.sparshsecuritech.com
Branch Office: Delhi · Mumbai · Kolkata · Bangalore · Lucknow · Chennai · Jaipur · Bhubaneswar · Raipur · Patna · Jammu
Chandigarh · Ludhiana · Panipat · Chhindwara · Himachal Pradesh CIN: U32109DL2005PTC144203

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Annexure to IoTSCS Certificate No. STQC/IOTSCS/[illegible]

The product below has been evaluated under the terms of IoT System Certification Scheme (IoTSCS) and met the Essential Requirements (ERs) notified as part of the PPO for CCTV in Gazette of India [EXTRAORDINARY, PART II—Section 3—Sub-section (ii) dated 7th March, 2024, at Sr. No. 1062]issued by MeitY

Reference Standards	Essential Requirements (ERs) notified as part of the PPO for CCTV in Gazette of India [EXTRAORDINARY, PART II—Section 3—Sub-section (ii) dated 7th March, 2024, at Sr. No. 1062]issued by MeitY
Product Name, Model & Version	Refer to Annexure-B
Chipset (SoC) Details & Country of Origin	Ambarella CV28 S32M, & Mutual Strength*
Firmware Version No. & Hash	Firmware Version: V5.1 Chipset: Ambarella CV[illegible] SoC Hash (MD5): Refer Annexure A
Applicable to models of same Chipset & Firmware	Refer to Annexure-B
Evaluation Lab	Electronics Regional Test Laboratory (North), 5 Block, Okhla Industrial Area Phase III, New Delhi 110020

Annexure-A

Model No.	MD5 Hash (Low)	MD5 Hash (Secured)
SS-BW2128-N	2ba0922[illegible]	027b5fbdcb2[illegible]
SS-BW8128-II	2915[illegible]	0375a[illegible]
SS-BW2128-II	4ea0[illegible]	28bb4d97[illegible]
SS-BW8128-II	[illegible]	[illegible]
SS-BW2128-IN	fa9727[illegible]	5572[illegible]
SS-BW4128-II	3246[illegible]	651d[illegible]
SS-BW2024-B	5e9dc32a[illegible]	e3a568[illegible]
SS-BW202-BN	021a[illegible]	1f049c[illegible]
SS-BW232-BI	0e3b07a[illegible]	e4a9[illegible]

Date of issue: 23.04.2024
Certificate Expiry: 22.04.2027

Head IoTSCS Certification Body

STQC

SAMRIDDHI AUTOMATIONS PVT. LTD.
Corporate Office: F-365, Sector-63, Noida-201307, U.P. (India) | Tel.: +91 120 4618 900 Toll Free: 18001020524
Manufacturing Office: Plot No. 75, Sector-7, IIE, SIDCUL, Haridwar-249403, Uttarakhand (India). Tel.:-91 1334 [illegible]
Reg. Office: HN-667/A, G/F, Mehavir Vihar, Sec-1, Dwarka, New Delhi-[illegible] Overseas Office: USA | Tel. +1 [illegible]
Email: info@sparshsecuritech.com | sales@sparshsecuritech.com | Website: www.sparshsecuritech.com
Branch Office: Delhi, Mumbai, Kolkata, Bangalore, Lucknow, Chennai, Nagpur, Bhubaneswar, Raipur, Patna, Jammu, Chandigarh, Ludhiana, Panipat, Dehradun, Himachal Pradesh
CIN: U32106UP2005PTC144203

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Annexure to IoTSCS Certificate Number: IOTSCS/[illegible]/905

Annexure-B

Sl.No.	Model Name	Camera Type
	Chipset: Ambarella CV28S33M Firmware version: V5.1	
1.	SS-EM212-(I)	Sparsh PTZ Camera
2.	SS-EM412-(I)	
3.	SS-IMD212-(I)	
4.	SS-IMD412-(I)	
5.	SS-EM212P-(I)	
6.	SS-EM412P-(I)	
7.	SS-EX202-I-B	
8.	SS-EX302-I-M	
9.	SS-EM212-(I)	

Date of Issue: [illegible]
Valid Upto: 18.05.2027

Head IoTSCS Certification Body

STQC

SAMRIDDHI AUTOMATIONS PVT. LTD.
Corporate Office: F-365, Sector-63, Noida-201307, U.P. (India) Tel.:+91 120-4818 900 Toll Free: 18001020524
Manufacturing Office: Plot No. 75, Sector-7, IIE, SIDCUL, Haridwar-249403, Uttarakhand (India) | Tel. +91 1334 645011
Reg. Office: H.No-873A, G/F, Mahavir Vihar, Sec-1, Dwarka, New Delhi | Overseas Office USA | Tel: +1 412 418 6973
Email: info@sparshsecuritech.com , sales@sparshsecuritech.com | Website: www.sparshsecuritech.com
Branch Office: Delhi | Mumbai | Kolkata | Bangalore | Lucknow | Chennai | Nagpur | Bhubaneswar | Raipur | Patna | Jammu
Chandigarh | Ludhiana | Panipat | Dhirendranagar | Himachal Pradesh
CIN: U32100DL2005PTC144203

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(MODEL NO. - SC-IND22XP-I(Z)(S))

EFKON INDIA PVT. LTD.

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IoT System Certification Scheme (IoTSCS)

[illegible]

[illegible]

[illegible]

Certificate of Product Evaluation

Certificate Number: STQC/IOTSCS/(R)/MPL

Product Name: Network Cameras [List of variants with model numbers is mentioned in Annexure-A]

OEM: M/s Samriddhi Automations PVT LTD, Plot No.75, Section-7, IIE SIDCUL, HARIDWAR 249403, UTTARAKHAND(India)

Manufacturer: M/s Samriddhi Automations PVT LTD, Plot No.75, Section-7, IIE SIDCUL, HARIDWAR 249403, UTTARAKHAND(India)

Supplier: –

Compliance: Essential Requirements in Relevant Clauses of the PIQ for CCTV in Gazette of India [PART II—Section 3—Sub-section (ii)] dated 28th March 2024 vide S.O. No. 1992(E) issued by MeitY

The product identified in this certificate has been evaluated under the terms and conditions of the IoT System Certification Scheme (IoTSCS), at Electronics Regional Test Laboratory (North) 1, Block, Okhla Industrial Area, Phase III, New Delhi-110020

This certificate applies only to specific version and release of the product in its evaluated configuration (Refer Annexure for details of Model Numbers).

This certificate is not an endorsement of the product by any agency of the Government of the India and no warranty of the product is either expressed or implied.

Note:

The Certificate is issued as per the Gazette Notification S.O.1992(E) dated 28th March 2024 and Clause 3(ii) of the PIQ for CCTV in Gazette of India [PART II—Section 3—Sub-section (ii)] dated 28th March 2024 vide S.O. No. 1992(E) issued by MeitY amended by relaxing Certificate No. STQC/IOTSCS/(R)/MPL/01 dated November 04, 2024.

Certificate may be verified by scanning the QR

Date of Issue: 21.09.2025

Certificate Expiry: 05.09.2026

Head of Unit/Certification Body

STQC

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Annexure to IoTSCS Certificate Number: STQC/IOTSCS/ [illegible]

The product below has been evaluated under the terms of IoT Systems Certification Scheme (IoTSCS) and met the Essential Requirements (ERs) notified as part of the PPO for CCTV in Gazette of India [EXTRAORDINARY, PART II—Section 3—Sub-section (ii) dated 7th March, 2024, at Sr. No. No. 1063] issued by MeitY

Reference Standards	Essential Requirements (ERs) notified as part of the PPO for CCTV in Gazette of India [EXTRAORDINARY, PART II—Section 3—Sub-section (ii) dated 7th March, 2024, at Sr. No. No. 1063] issued by MeitY
Product Name, Model & Version	Bullet Annexure A
Chipset (SoC) Details & Country of Origin	Ambarella/CV28M53M & United States*
Firmware Version No. & Hash	Firmware Version: V5.1 Chipset: Ambarella/CV28M53M Hash Value: [illegible]
Applicable to models of same Chipset & Firmware	Bullet Annexure A
Evaluation Lab	Electronics Regional Test Laboratory (North), S Block, Okhla Industrial Area, Phase II, New Delhi 110020

Date of Issue: [illegible]

Certificate Expiry: 06.09.2028

Head IoTSCS Certification Body

STQC

SAMRIDDHI AUTOMATIONS PVT. LTD.

Corporate Office: F-365, Sector 63, Noida-201307, U.P. (India) | Tel.: +91 1204618 900 | Toll Free: 18001020524

Manufacturing Office: Plot No. 75, Sector-7, IIE, SIDCUL, Haridwar-249403, Uttarakhand (India) | Tel.: +91 1334 645011

Reg. Office: H-873A, G/F, Malviya Vihar, Sec-2, Dwarka, New Delhi - 75 | Overseas Office: USA | Tel. +1 424 218 8973

Email: info@sparshsecuritech.com | sales@sparshsecuritech.com | Website: www.sparshsecuritech.com

Branch Office: Delhi | Mumbai | Kolkata | Bangalore | Lucknow | Chennai | Nagpur | Bhubaneswar | Raipur | Patna | Jammu | Chandigarh | Ludhiana | Panipat | Chinchwad | Himachal Pradesh | CIN: U32109DL2005PTC144201

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Annexure to BIS Certificate Number: STQC/IOTSS/ [illegible]

Annexure -A

Sr. No	Model Name	Model Number
	Chipset: AmbarellaCV28S33M, Firmware version: V5.1	
1	SC-IL23DP-I(2)(S)	Dome Camera
2	SC-IL23BP-I(2)(S)	Bullet Camera
3	SC-IL22KP-N(2)(S)	Box Camera
4	SC-IND22DP-I(2)(S)	Dome Camera
5	SC-IN[illegible]	Bullet Camera
6	SC-IND22BP-I(2)(S)	Box Camera
7	SC-IND42DP-I(2)(S)	Dome Camera
8	SC-IND42BP-I(2)(S)	Wedge Camera
9	SC-IND42KP-I(2)(S)	Box Camera

Date of issue: 23.08.2024

Certificate expiry: 05.09.2026

For and on behalf of BIS Certification Body

Page 2 of 3

(MODEL NO. - SC-IND52DP-I(Z)(S))



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IoT System Certification Scheme (IoTSCS)

Certificate of Product Evaluation

Certificate Number: STQC/IOTSCS/ER/004

Product Name: Network Camera (List of camera with model numbers is enclosed in Annexure-A)

OEM: M/s Samriddhi Automations PVT LTD , Plot No. 75, Sector-7, HE SIDCUL, Haridwar (Uttarakhand India)

Manufacturer: M/s Samriddhi Automations PVT LTD , Plot No. 75, Sector-7, HE SIDCUL, Haridwar (249403), Uttarakhand India

Supplier: -

Compliance: Essential requirements (ER) notified in clause 4 of the PPO for CCTV in Gazette of India [CTRADORDER, Part I— Section 1 — Sub-section (i)] dated 7th March, 2024, at Sr. No. 1(B)(1) issued by MeitY

The product identified in this certificate has been evaluated under the rules and conditions of the IoT System Certification Scheme [IoTSCS], at Electronics Regional Test Laboratory, (North), 5 Kilometer, Chhaju Industrial Area, Phase II, New Delhi (110020).

This certificate applies only to specific version and release of the product in the evaluated configuration (Refer Annexure for details of model numbers).

This certificate is not an endorsement of the product by any agency of the Government of the India and no warranty of the product is either expressed or implied.

Note:

This Certificate is issued as per the Essential Requirements (ER) notified in clause 4 of the PPO for CCTV in Gazette of India [CTRADORDER, PART I— Section 1 — Sub-section (i)] dated 7th March, 2024, at Sr. No. 1(B)(1) issued by MeitY, prepared in Hybrid Certification mode. THE CERTIFICATION shall expire on September 06, 2025

Certificate Made Available by electronic means (Portal) in Public

Date of Issue: 11/04/2025

Certificate Digital Signature Date

Head of STQC Certification Body

STQC

SAMRIDDHI AUTOMATIONS PVT. LTD.
Corporate Office: F-365, Sector-63, Noida-201307, U.P. (India) | Tel: +91 120 4518 900 Toll Free: 18001020529
Manufacturing Office: Plot No. 75, Sector-7, HE SIDCUL, Haridwar-249403, Uttarakhand (India) Tel: +91 1334 645011
Reg. Office: HN-B/39, Ext. Mehavir Vihar, Sec-1, Dwarka, New Delhi - 75 | Overseas Office: USA | Tel: +1 412 418 8978
Email: info@sparshsecuritech.com | sales@sparshsecuritech.com | Website: www.sparshsecuritech.com
Branch Office: Delhi | Mumbai | Kolkata | Bangalore | Lucknow | Chennai | Nagpur | Bhubaneswar | Raipur | Patna | Jammu
Chandigarh | Ludhiana | Manipal | Chandigarh | Himachal Pradesh
CIN: U32106DL2005PTC144203

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Amendment to IoTSCS Certificate No. STQC/IoTSCS/ER/5004

The product below has been evaluated under the terms of IoT System Certification Scheme (IoTSCS) and met the Essential Requirements (ERs) notified as part of the PPO for CCTV in Gazette of India [illegible] dated 7th March, 2024, vide Sr. No. No. 1062) issued by MeitY

Reference Standards	Essential Requirements (ERs) notified as part of the PPO for CCTV in Gazette of India [illegible] dated 7th March, 2024, vide Sr. No. No. 1062) issued by MeitY
Product Name, Model & Variant	Refer Annexure -A
Chipset (SoC) Details & Country of Origin	Ambarella CV28M, Santa Clara, California, United States*
Firmware Version No. & Hash	Firmware Version: V3.1 Chipset: Ambarella CV28M Hash: 6f3381a06b56e8fbb3490eef53d5fe25
Applicable to models of Variant, Chipset & Firmware	Refer Annexure -A
Evaluation Lab	Electronics Regional Test Laboratory (North), S Block, Okhla Industrial Area, Phase III, New Delhi 110020

Date of Issue: 19.09.2024
Certificate Expiry: 05.2026

Head of IECS Certification Body

STQC

Page 2 of 3

sparsh cctv

Annexure to IoTSCS Certificate Number: [illegible]

Sr. No.	Model Name	Model Number
	Chipset: AmbarellaCV28M, Firmware version: V1.1	
1	SC-IND820P-I(Z)(S)	Dome Camera
2	SC-IND820P-I(Z)(S)	Bullet Camera
3	SC-IND820P-I(Z)(S)	Box Camera
4	SC-IND820P-I(Z)(S)	Dome Camera
5	SC-IND820P-I(Z)(S)	Bullet Camera
6	SC-IND520P-I(Z)(S)	Box Camera
7	SC-IL820P-I(Z)(S)	Dome Camera
8	SC-IL820P-I(Z)(S)	Bullet Camera
9	SC-IL820P-I(Z)(S)	Box Camera

Date of Issue: [illegible]
Certificate Expiry: 05.09.2026

Head IoTSCS Certification Body

STQC

SAMRIDDHI AUTOMATIONS PVT. LTD.
Corporate Office: F-365, Sector-63, Noida-201307, U.P. (India) | Tel.: +91 120 4518 900 , Toll Free: 18001020021
Manufacturing Office: Plot No. 75, Sector-7, IIE, SIDCUL, Haridwar-249403, Uttarakhand (India) | Tel.: +91 1334 645011
Reg. Office: H+87/A, G/F, Mahavir Vihar, Sec-3, Dwarka, New Delhi - 78 | Overseas Office: USA, Tel.: +1 412 418 8973
Email: info@sparshsecuritech.com | sales@sparshsecuritech.com | Website: www.sparshsecuritech.com
Branch Office: Delhi | Mumbai | Kolkata | Bangalore | Lucknow | Chennai | Nagpur | Bhubaneswar | Raipur | Patna | Varanasi
Chandigarh | Ludhiana | Panipat | Dehradun | Himachal Pradesh | [illegible]

MADE IN INDIA MADE FOR THE WORLD

(MODEL NO. - SC-IND52BP-I(Z)(S))



sparsh cctv



IoT System Certification Scheme (IoTSCS)

Certificate of Product Evaluation

Certificate Number: STQC/IOTSCS/ER/064

Product Name: Network Camera (unit to comply with model specific conditions mentioned in Annexure-A)

OEM: M/s Sambridhi Automations PVT LTD Plot No. 75, Sector-7, IIE SIDCUL, Haridwar

Manufacturer: M/s Sambridhi Automations PVT LTD., Plot no. 75, Sector-7, IIE SIDCUL, Haridwar (Uttarakhand), (Uttarakhand) India

Supplier: -

Compliance: Compliant to Requirements (ER) specified as part of the PRO for CCTV in Gazette of India [EXTRAORDINARY, PART II—Sec. (i)] vide corrigendum OM dated 7th March, 2024, at Sl. No. 16(2) issued by MeitY

The product identified in the certificate has been evaluated under the terms and conditions of the IoT System Certification Scheme (IoTSCS), at Electronics Regional Test Laboratory (North), 5 Block, Okhla Industrial Area, Phase III, New Delhi (110020).

This certificate applies only for specific version and release of the product in its evaluated configuration (Refer Annexure for details & Model Numbers).

This certificate is not an endorsement of the product by any agency of the Government of India and no warranty of the product is either expressed or implied.

Page 1 of 2

sparsh cctv

Annexure to IoTSCS Certificate No.ISAC/NOTIFIED/ER/1004

The product below has been evaluated under the terms of IoT System Certification Scheme (IoTSCS) and for the Essential Requirements (ERs) notified as part of the PPO for CCTV in Gazette of India [EXTRAORDINARY, PART II—Section 3—Sub-section (ii) dated 7th March, 2024, at Sr. No. No. 1062] issued by MeitY

Reference Standards	Essential Requirements (ERs) notified as part of the PPO for CCTV in Gazette of India [EXTRAORDINARY, PART II—Section 3—Sub-section (ii) dated 7th March, 2024, at Sr. No. No. 1062] issued by MeitY
Product Name, Model & Variant	Kptar Announcer -A
Chipset (SoC) Details & Country of Origin	AmbarellaCV28M, & Santa Clara, California, United States*
Firmware Version No. & Hash	Firmware Version: V5.1 Chipset: AmbarellaCV28M Hash (MD5): 693881a0666e0b3490cecf53457e25
Applicable to models of same Chipset & Firmware	Kptar Announcer -A
Evaluation Lab	Electronics Regional Test Laboratory (North), S Block, Okhla Industrial Area, Phase II, New Delhi-110020

Date of Issue: 23.09.2024
Certificate Valid upto: 09.09.2029

Head IoTSCS Certification Body

STQC

Page 2 of 2

sparsh cctv

Annexure to IoTSCS Certificate Number: STQC/IoTSCS/DLI/2024

Sr. No.	Model Name	Model Number
	Chipset: AmbarellaCV28M, Firmware version: V5.1	
1	SC-IND5208P-IZ(S)	Dome Camera
2	SC-IND5208P-IZ(S)	Bullet Camera
3	SC-IND5208P-IZ(S)	Box Camera
4	SC-IND5208P-IZ(S)	Dome Camera
5	SC-IND5208P-IZ(S)	Bullet Camera
6	SC-IND5208P-IZ(S)	Box Camera
7	SC-IL802P-IZ(S)	Dome Camera
8	SC-IL802P-IZ(S)	Bullet Camera
9	SC-IL802P-IZ(S)	Box Camera

General Note: 3rd page
Certificate Expiry: 05.09.2026

Head IoTSCS Certification Body

STQC

Page 3 of 3

OWASP LEVEL – 10
DECLARATIONS



Date: 16/09/2024

To,

The Chief Engineer-Regional Office, Dehradun
Ministry of Road Transport and Highways
1St Floor, Institution of Engineers India Building
Near ISBT, Saharanpur Road, Dehradun-248001, Uttarakhand

Sub.: **Declaration regarding OWASP Top 10 Compliant**

Ref: **Tender Reference No: RO/UK/TIMS/2023/01 Dated 11.03.2024**

Dear Sir,

We hereby declare that the following software

1. **Highway traffic Management System (HTMS) / Control room Software**
2. **Video Analytics (VA)**

supplied by us, is OWASP top 10 compliant / will be compliant before the supply of equipment.

Thanking you,
Yours Faithfully,

For EFKON India Private Limited

Authorized Signatory
Name:
Designation:
Date: 16th September 2024

Manish Saini
Lawful Attorney

Sandeep Murarka
Lawful Attorney

Address: 1st Floor, Block B, Vatika Towers, Golf Course Road, Sector 54, Gurugram, Haryana-122002
Telephone & Fax: +91 0124-4722500, +91 22 4294 9333
E-mail address: manish.saini@efkonindia.com, sandeep.murarka@efkonindia.com

SCANPOINT GEOMATICS LIMITED

Date: 14/08/2024

To
The Chief Engineer-Regional Office,
Dehradun Ministry of Road Transport and Highways
1St floor, Institution of Engineers India Building
Near ISBT, Saharanpur Road, Dehradun-248001, Uttarakhand

Subject: Declaration regarding OWASP Top 10 Compliant

Tender Reference No: RFP No. RO/UK/TIMS/2023/01 dated 11.03.2024

Dear Sir,

We hereby declare that the software **IGIS Desktop Professional V-11.0 and IGIS Enterprise Suite Professional V-11.0** supplied by us is OWASP top 10 compliant / will be compliant before the supply of equipment.

Thanking you,

Yours faithfully,

For and on behalf of M/s Scanpoint Geomatics Ltd (Name of the OEM)
Signature :
Authorized Signatory
Name : Kantilal Ladani
Designation : Director
Date: 14/08/2024
Place: Ahmedabad

SCANPOINT GEOMATICS LIMITED AHMEDABAD

EFKON INDIA PVT. LTD.

Registered & Corporate Office
O-103/-107/ 10th Floor Swati Clover,
Shilaj Circle, S P Ring Road Thaltej,
Ahmedabad Gujarat-380059 India

[P] + 079 4602 3972
[E] mail@sgiqis.com
www.sgiqis.com

OWSQP Declaration

To
The Chief Engineer-Regional Office,
Dehradun Ministry of Road Transport and Highways
1St Floor, Institution of Engineers India Building
Near ISBT, Saharanpur Road, Dehradun-248001, Uttarakhand

Subject: Declaration regarding OWASP Top 10 Compliant

Ref: Tender Reference No: RFP No. RO/UK/TIMS/2023/01 dated 11.03.2024.

Dear Sir,

We hereby declare that the software **"Traffic Monitoring Camera System (TMCS)/ Video Analytics and Management System (VAMS), Accident and Incident Detection (AID) System, Automatic Number Plate Detection (ANPR) System"** supplied by us is OWASP top 10 compliant / will be compliant before the supply of equipment

Thanking You,
Yours faithfully,

Lokesh Jain (Vice President-Sales)
Duly authorized to sign the bid for and on behalf of: M/s i2V Systems Pvt. Ltd.

Date: 19th August, 2024
Address: Software Technology Parks of India, 384th Floor, Plot No 30, Electronic City, Sector-18, Gurugram 122015

Gmail

Regional Office MoRTH <romorthddn@gmail.com>

Re: Selection of System Integrator for Implementing and Maintaining Traffic Incident Management System on the Chardham Mahamarg - Clarification reg.

Keltron Monvila <keltronseu@gmail.com> Thu, 7 Nov at 8:53 PM
To: RO Dehradun <ro.ddn-morth@gov.in>
Cc: Regional Office <romorthddn@gmail.com>

Dear Sir,

Ref: Letter fromMORTH F. No. RO/UK/TIMS/2023/01 Dated: 30.10.2024

We, Kerala State Electronics Development Corporation (KELTRON), a fully owned Kerala government company, are pleased to submit our bid for the tender floated by MORTH. Our proposal features our innovative "Make KELTRON" camera, specifically designed for the AIDs solution.

To ensure compliance with regulatory standards, we have approached the Central Government Laboratory STQC in Chennai for MTBF certification on August 2024 itself. We have issued the purchase order and release the payments already. The evaluation is currently in its final stage. However, due to the recent festival holidays and weekends, we have not yet received the final results.

We apologize for the delay and kindly request an additional week to submit the results. We appreciate your understanding in this matter and kindly request your consideration and favorable action.

Thank you for your time and consideration.

Sincerely,

Akhilesh P
Head Marketing (CPG)
Keltron Communication Complex

On Wed, 30 Oct, 2024, 17:08 RO Dehradun, <ro.ddn-morth@gov.in> wrote:

> Sir,
>
> Please find the attachment.
>
> CE-RO, MoRTH,
> Dehradun

KERALA STATE ELECTRONICS DEVELOPMENT CORPORATION LTD.
(A Government of Kerala Undertaking)

KELTRON®
ISO 9001 : 2015 CERTIFIED

Communication Projects Group
Keltron Communication Complex
Monvila, Kulathoor P.O.
Thiruvananthapuram - 695 583
KERALA, INDIA

Telephone: 0471-2598948 (5 lines)
Fax : 0471-2598984
E-mail : keltronseu@gmail.com

KCC/CPG/G36/2024-25/1286 08/11/2024

To,

Chief Engineer – RO Dehradun

Sir,

Sub: Clarifications regarding the Technical Bid submitted for the project titled - Selection of System Integrator for Implementing and Maintaining Traffic Incident Management System on the Chardham Mahamarg in the State of Uttarakhand:

Ref: 1: RFP No. RO/UK/TIMS/2023/01 Dated 11.03.2024
2: F. No. RO/UK/TIMS/2023/01 Dated: 30.10.2024

Based on the Ref2, we hereby giving the clarification as follows:

1.1: As per our technical bid, we have proposed two types of cameras for this project. PTZ camera for Traffic Monitoring Camera System (TMCS) and ANPR grade Global Shutter Fixed Camera for Accident and Incident Detection System (AIDS). We are using IDIS camera for TMCS system. The model we have used is: DC-S6283HRXL. This will satisfy the specification mentioned in the RFP for TMCS system. We are using our own camera for Accident and Incident Detection System. The model we have used is K-ANPR-GS-5M. This will satisfy the specification mentioned in the RFP. We are not using any other camera for this project.

1.2: The MTBF report for the PTZ camera and Accident and Incident Detection cameras are as follows. The detailed report for both is attached as Annexure 1 and Annexure 2

Sl No	Camera Type	Model No	MTBF Report Compliance	Documentary Evidence	Document Name
1	PTZ Camera	DC-6283HRXL	Submitted	Report by LTA Co. Ltd	Annexure 1
2	AIDS Camera	K-ANPR-GS-5M	Under processing	Mail from CENTRE FOR RELIABILITY STQC Directorate, MeitY, Government of India, Chennai	Annexure 2

1.3: As per the RFP document "Clause No 3.5 – Eligibility Criteria" Sub clause no 7 a & b All cameras and Software should be OWASP complaint before the supply of equipment. Since the condition is before supply of equipment, we hereby declare that we will give the OWASP compliance certificate before supply of equipment. Even though we already summited OWASP certificate for TMCS system in our proposal (pg no: 353-355).

Thanking You,
Yours Faithfully,
For Kerala State Electronics Development Corporation Ltd.





BINSUN N T
Head, Communications Project Group
Keltron Communication Complex, Monvila
Trivandrum, Kerala

KERALA STATE ELECTRONICS DEVELOPMENT CORPORATION LTD.
(A Government of Kerala Undertaking)

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ISO 9001 : 2015 CERTIFIED

Communication Projects Group
Keltron Communication Complex
Monvila, Kulathoor P.O.
Thiruvananthapuram - 695 583
KERALA, INDIA

Telephone : 0471-2598948 (5 lines)
Fax : 0471-2598984
E-mail : keltronseu@gmail.com

KCC/CPG/G.36/2024-25/1313 **14.11.2024**

The Chief Engineer-Regional Officer, Dehradun
Ministry of Road Transport & Highways
1st Floor, The Institution of Engineers (India) Building,
Near ISBT, Sharanpur, Road, Dehradun-248001

Sub: Clarification regarding the Technical Bid submitted for the project "Selection of System Integrator for Implementing and Maintaining Traffic Incident Management System on the Chardham Mahamarg in the state of Uttarakhand"

Reference: 1) RFP No. RO/UK/TIMS/2023/01 Dated 11.03.2024
2) Letter from MORTH F. No. RO/UK/TIMS/2023/01 Dated: 30.10.2024
3) Keltron Letter KCC/CPG/G36/2024-25/1286 Dated 08.11.2024

As per your letter (Ref: 2) from MORTH, we submitted our clarifications (Ref: 3). As mentioned in our previous letter and supported by the attached email from STQC Chennai, we are pleased to confirm that our KELTRON camera, specifically designed for the AIDS solution, has successfully obtained MTBF Certification.

For your convenience, we have attached the MTBF report along with life prediction calculations.

We look forward to a long-term association with you and appreciate your consideration.

Thank you for your precious time.

Thanking You
Yours faithfully,
For KERALA STATE ELECTRONICS DEVELOPMENT CORPORATION LTD.

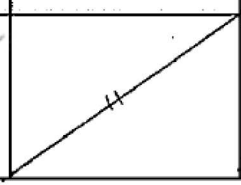
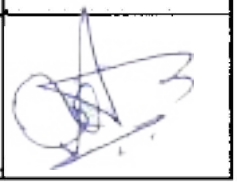
KERALA STATE ELECTRONICS DEVELOPMENT CORPORATION LIMITED
COMMUNICATIONS DIVISIONS KULATHOOR TRIVANDRUM-695 583

Head -Communication Projects Group
Keltron Communications Complex
Monvila, Kulathoor P O,
Thiruvananthapuram
Kerala, India

STQC Certification QMS NABCB QM 034
ISO 9001 : 2015

Qualification Report / MTBF	ANPR Camera

K- ANPR - GS - 5M

APPR	PREP	CHECK	APPR
			

MTBF	373133.34 hrs [42.6 Years]		Result	Pass [Over 10 Years]	
Fail Rate within 1 year	2.32 %				
B10 Lifespan	39313.52 hrs				
Model Name	K- ANPR - GS - 5M	Company	KELTRON	Test Team	QA Team
Cal Date	28.10.2024 - 13.11.2024	Develop.LV		Written by	

KELTRON
A Government of Kerala Undertaking

Contents

1. Calculation Background ---------- 3

2. Set Lifespan Prediction ---------- 4

3. Unit(Board) MTBF Calculation Results ---------- 5

4. Unit and Set Level MTBF Calculation Results ---------- 6

5. Unit and Set Level B10 Calculation Results ---------- 7

6. Defection Prediction using MTBF ---------- 8

1. Calculation Background

Purpose of MTBF Calculation	🕮 Prediction of failure rate and any lifespan of system/parts/assembly 🕮 Providing information of Assembly Level maintenance period 🕮 Providing information required to analyze the life cycle cost of the assemble or system 🕮 Providing a measure of purchase to customer or buyer by determining the practical performance level of product
Prediction TOOL	ITEM Toolkit
Calculation Model	Telcordia SR - 322 Issue 4
Calculation Method	SR - 332, Method I : Unit Steady - State Failure Rate Parts Count Method
Environment	Ground Fixed , Uncontrolled (Limited) @ 40°C
MTBF REPORT	KEL- ANPR - GS - 5MP

2. Set Lifespan Prediction

SET Lifespan Prediction Result							
Items		MTBF	B_{10} Lifespan	Failure rate [ppm/hrs]	Predicted annual failure rate	Predicted A/S rate	Remark
Prediction 1	SET MTBF	373133.34 hrs [42.6 Years]	39313.52 hrs [4.49 Years]	2.68	2.32 [%]	1.16 [%]	
Calc. conditions : Operation Time assumed as 8,760 hrs/year 24hrs/day * 365days/week = 8,760 hrs/year							

3. Unit (Board) MTBF Calculation Results

Operation Time		8,760 Hrs				
	Items	**MTBF**	**B10**	**Failure Rate**	**Predicted Annual Failure Rate**	**Predicted A/S rate**
SET	**Camera**	373,133.34 Hrs	39,313.52 Hrs	2.68 ppm/Hrs	2.32 %	1.16 %
		42.60 Years	4.49 Years			
Unit	**MTX 581.5**	6,134,016.08 Hrs	646,283.10 Hrs	0.16 ppm/Hrs	0.14 %	0.07 %
		700.23 Years	73.78 Years			
	MTX 744.6	1,468,977.19 Hrs	154,772.19 Hrs	0.68 ppm/Hrs	0.59 %	0.30 %
		167.69 Years	17.67 Years			
	MTX 808.3	581,806.59 Hrs	61,299.44 Hrs	1.72 ppm/Hrs	1.50 %	0.75 %
		66.42 Years	7.00 Years			
	MTX 809.1	8,514,133.17 Hrs	897,053.46 Hrs	0.12 ppm/Hrs	0.10 %	0.05 %
		971.93 Years	102.40 Years			

4. Unit and SET Level MTBF Calculation Results

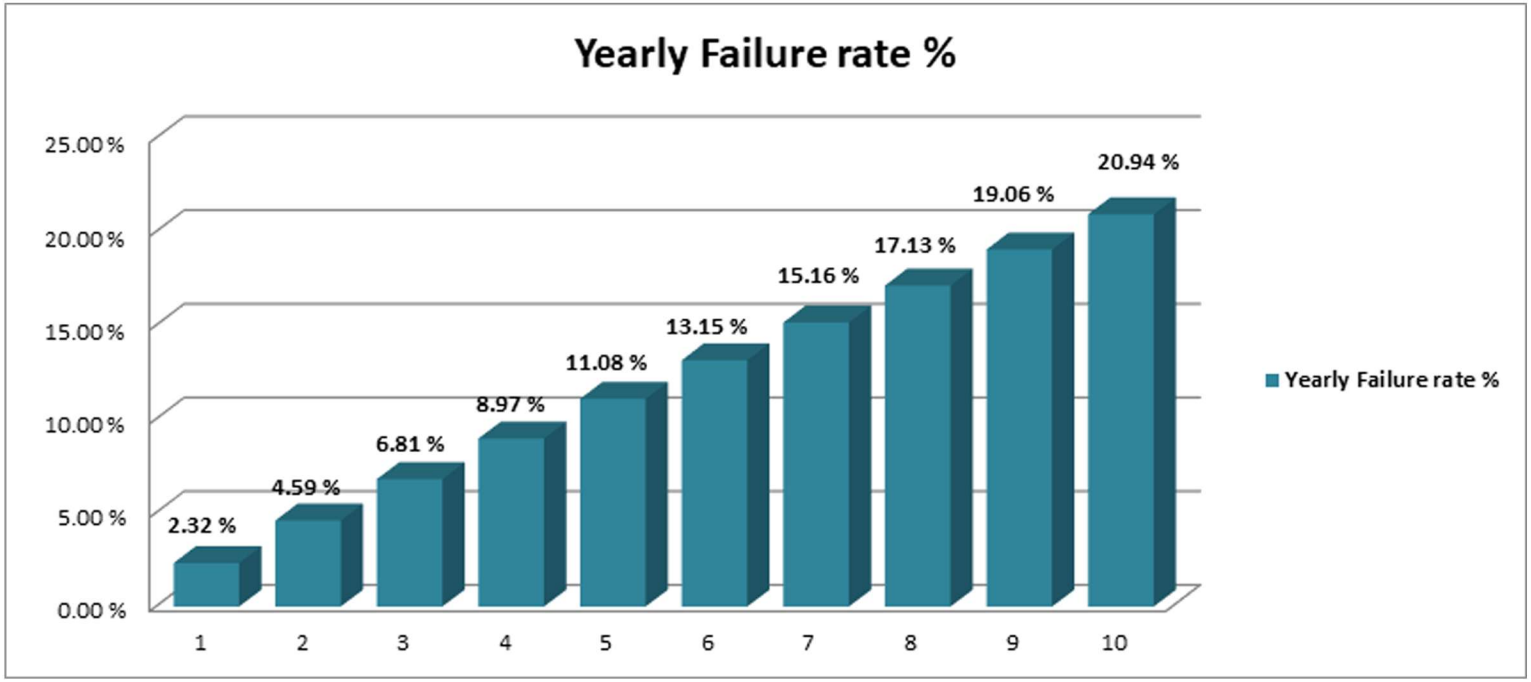
	MTX 581.5	MTX 744.6	MTX 808.3	MTX 809.1
MTBF	6134016.08 Hrs	1468977.19 Hrs	581806.59 Hrs	8514133.17 Hrs
A/S	0.07%	0.30%	0.75%	0.05%
SET MTBF	1185155.56 Hrs			
	390235.48 Hrs			
	373133.34 Hrs			

5. Unit and SET Level B_{10} Lifespan Calculation Results

	MTX 581.5	MTX 744.6	MTX 808.3	MTX 809.1
B10	73.78 Years	17.67 Years	7 Years	102.40 Years
A/S	0.07%	0.30%	0.75%	0.05%
B10	**14.25 Years**			
	4.69 Years			
	4.49 Years			

6. Defection Prediction Using MTBF

Years	1	2	3	4	5	6	7	8	9	10
Hrs	8760	17520	26280	35040	43800	52560	61320	70080	78840	87600
Yearly Failure rate %	2.32 %	4.59 %	6.81 %	8.97 %	11.08 %	13.15 %	15.16 %	17.13 %	19.06 %	20.94 %



सत्यमेव जयते

Report on

RELIABILITY PREDICTION

OF

5M ANPR Camera Model No. : K-ANPR-GS-5M
as per Telcordia SR-332, Issue 4





CENTRE FOR RELIABILITY,
STQC DIRECTORATE
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY (MeitY)
GOVERNMENT OF INDIA
THIRUVANMIYUR, CHENNAI - 600041
Ph: (044) 24547700/01/89
TeleFax: (044) 24543713
E-mail: cfr@stqc.gov.in

TERMS AND CONDITIONS

1. This report refers only to the sample actually subjected to Reliability Analysis.
2. The analysis report provided is solely based on a theoretical estimation for predicting reliability.
3. The accuracy and validity of the reliability prediction cannot be guaranteed due to its theoretical nature.
4. The analysis report should be used for informational purposes only and should not be solely relied upon for making critical decisions.
5. The analysis report issued by the Centre is not to be used for any legal purposes and shall not be produced in the court of Law.
6. The analysis report shall not be misused knowingly or unknowingly.
7. The analysis report must be reproduced in full and in no case, this should partially be re-produced.
8. The report shall not be regarded in any way diminishing the contractual requirements between the buyers and sellers.
9. The Centre provides the services solely for the benefit of the Client. As the sole intended beneficiary, only the Client has a right to enforce this agreement.
10. The report provided by the Centre to the client is for the benefit and guidance of the Client only and not intended for communication to a broader audience.
11. The Centre and the Client have arrived at the extent and depth of testing that can reasonably be achieved in the light of Client's other constraints and the product's design and reliability.
12. The Centre shall have no liability for any damages to the Client or consequential damages (including lost profits) of the Client or any third party, even if the Centre has been advised of the possibility of such damages.
13. The reports shall not in any way be construed as approval of any product by the Centre.
14. The conditions are subject to change/modification without any prior notice.
15. The Centre does not endorse the intellectual property risks, if any, claimed by the client for the product.
16. The responsibility of confirming the correctness of the performance of the product is of the client and NOT that of the Centre. The Centre has only checked the Reliability/Failure of the product assuming that the performance/functionality are correct and appropriate.
17. In case of any disputes, the decision of the Director, CFR, Chennai shall be final and binding.

1.0 SCOPE

1.1 Service request no. : 1829

1.2 Name & Address of the Client : Keltron
Kerala State Electronics
Development Corporation Ltd.
Keltron Communication
Complex, Monvila, Kulathoor
P.O. Thiruvananthapuram-
695583, Kerala

1.3 Description : **5M ANPR Camera**
Make: KELTRON
Model No.: K-ANPR-GS-5M

1.4 Project : Received Date : 28-10 -2024
Completed Date : 13-11-2024

1.5 (a) Standard/ Analysis / Test Procedure Ref. : Standard Telcordia SR-332, Issue 4

(b) Scope : Reliability Prediction by Parts Count Method

13/11/2024

APPROVED BY

R. RADHIKA
SCIENTIST 'F'
CENTRE FOR REALIABILITY

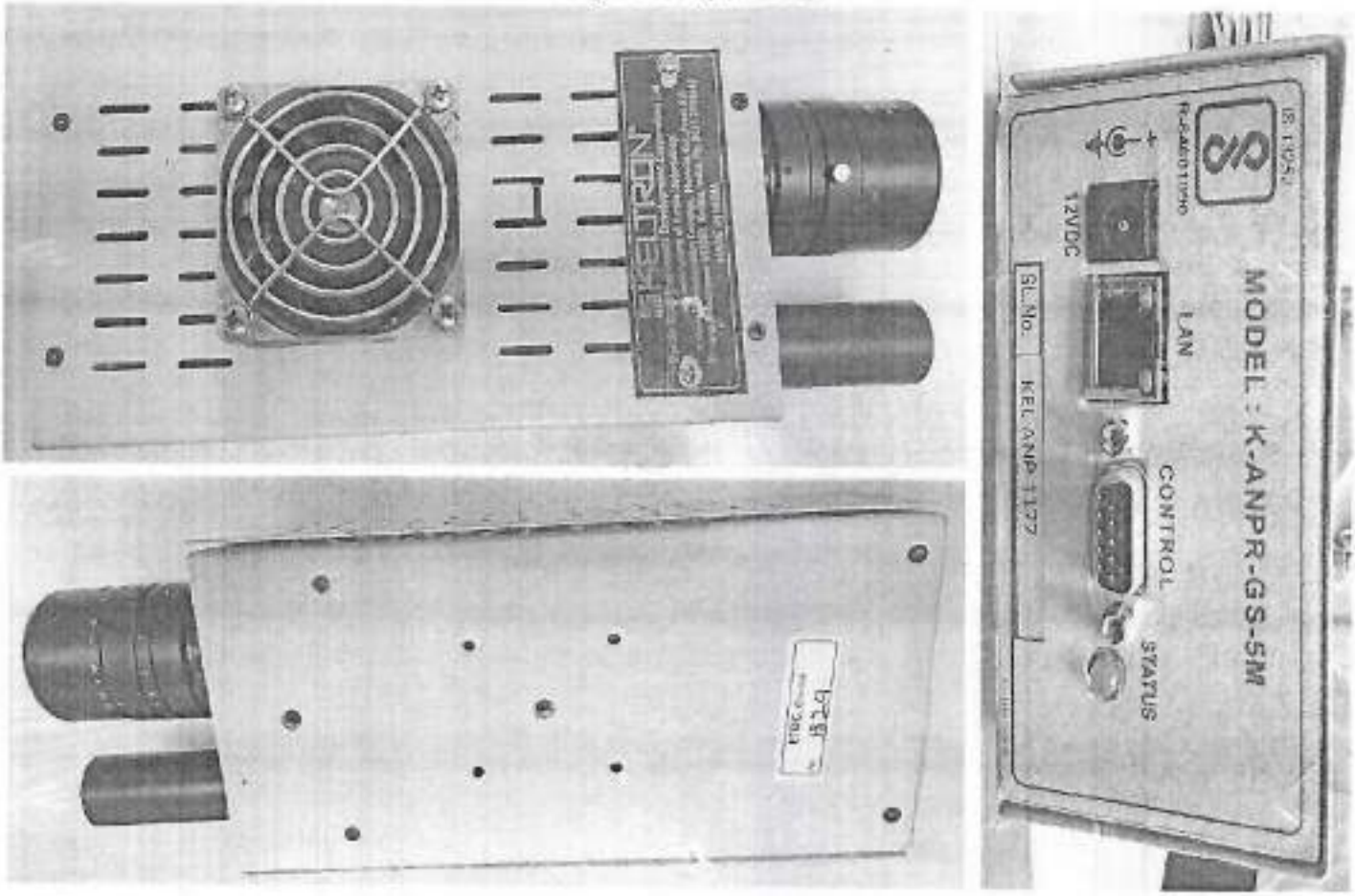
P. DANDAPANI
AUTHORISED SIGNATORY
ELECTRONICS TEST & DEVELOPMENT CENTRE
STQC DIRECTORATE, MeitY,
MINISTRY OF ELECTRONICS & INFORMATION TECHNOLOGY

2.0 INTRODUCTION

This report presents the results of Reliability Prediction Analysis performed on **5M ANPR Camera Model No. : K-ANPR-GS-5M** as per Telcordia SR-332, Issue 4 standard as depicted in Figure 1.0(a,b & c). Figure 2.0(a,b,c & d) contains the images of the PCB's the product. This exercise was performed under **Ground Fixed, Uncontrolled (Limited)** environment as requested by M/s Keltron (Kerala State Electronics Development Corporation Ltd.), Keltron Communication Complex, Monvila, Kulathoor P.O. Thiruvananthapuram- 695583, Kerala

Reliability Prediction is the process of quantitatively assessing whether a proposed or actual equipment design will meet a specified reliability requirement. Reliability Prediction has various applications in the design and development process including substantiating quantitative design comparisons with competitive products, selecting warranty periods, advertising and marketing. It provides guidance, relative to expected inherent reliability of a given design.

Figure 1.0 (a,b & c)



R.R 13/11/2024

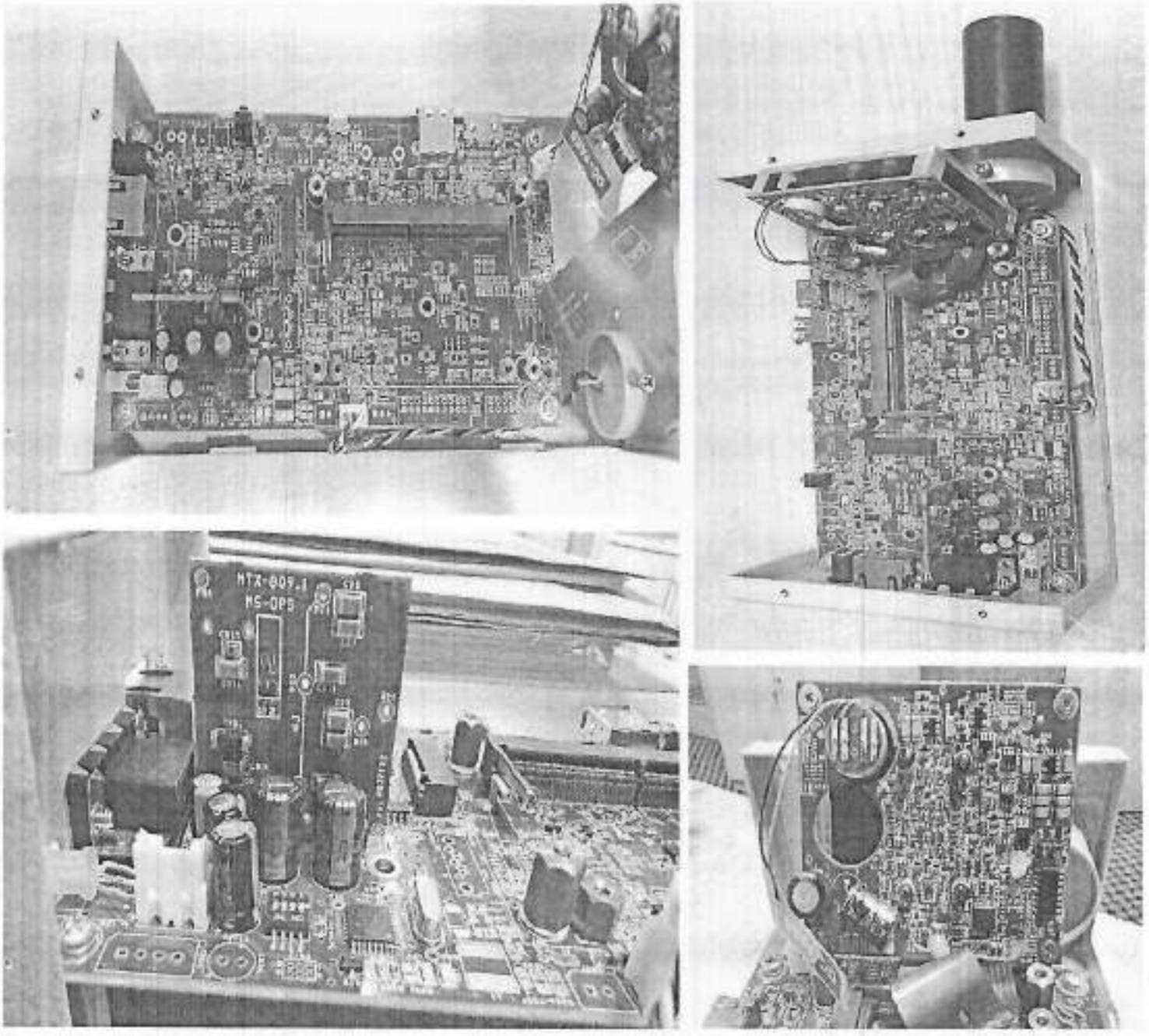
APPROVED BY

R. RADHIKA
SCIENTIST 'F'
CENTRE FOR REALIABILITY
STQC DIRECTORATE, Mohali

AUTHORISED SIGNATORY

P. PANDARAM
ELECTRONICS TEST & DEVELOPMENT CENTRE
STQC DIRECTORATE, Mohali,
MINISTRY OF ELECTRONICS & INFORMATION TECHNOLOGY

Figure 2.0 (a,b,c & d)



R. [illegible] 13/11/2024

APPROVED BY

[illegible]
SCIENTIST 'F'
CENTRE FOR REALIABILITY
STQC DIRECTORATE, MeitY,
MINISTRY OF ELECTRONICS & INFORMATION TECHNOLOGY

P. DANDAPANI
SCIENTIST 'E'
ELECTRONICS TEST & DEVELOPMENT CENTRE
STQC DIRECTORATE, MeitY,
MINISTRY OF ELECTRONICS & INFORMATION TECHNOLOGY
GOVERNMENT OF INDIA

AUTHORISED SIGNATORY

3.0 APPLICABLE DOCUMENTS AND TOOLS

Telcordia SR-332, - Reliability Prediction Procedure for Electronic Equipment Issue 4

4.0 RELIABILITY PREDICTION OBJECTIVES

Objectives of this analysis are to estimate the Mean Time between Failure (MTBF) of **5M ANPR Camera Model No. : K-ANPR-GS-5M** using Telcordia SR-332, Issue 4 Standard and to obtain quantitative design information as applicable. The main objectives are:

a. Provide an estimate of the steady-state failure rates for devices based on generic reliability parameters and obtain feasibility evaluation.

b. Provide feedback for designers.

c. Identify potential problem areas during design review.

d. Provide MTBF of the system and subassemblies and failure rate of system/subassemblies/ Components.

5.0 SR-332, Method 1: Unit Steady-State Failure Rate Parts Count Method - ASSUMPTIONS

Reliability Prediction using SR-332, Method 1: Unit Steady-State Failure Rate Parts Count Method for reliability prediction operates under the following assumptions: assumes a serial relationship between parts of the system, in which, failure of any part constitutes system failure. The model also assumes that

a. At the device level, it is assumed that no detailed reliability data is available. Predictions are based on generic reliability parameters.

b. Predictions are made using generic reliability parameters as specified in the relevant sections of SR-332, which are applied to estimate steady state failure rates.

c. At the unit level, failure rate predictions are based solely on the failure rates of the individual devices that compose the unit, without considering interactions between devices.

d. This method primarily estimates steady-state failure rates and does not specifically account for infant mortality failures (early-life failures) or wear out failures (end-of-life failures). It assumes a constant failure rate.

6.0 SR-332, Method I: Unit Steady-State Failure Rate Parts Count Method: Factors

Method I: Unit Steady-State Failure Rate Using the Parts Count Method primarily estimates reliability by calculating the steady-state failure rate of a device using a set of generic parameters. It takes into account the following factors:

6.0.1 Number of component of each Type.

6.0.2 Mean Generic Steady-State Failure Rate.

6.0.3 Temperature factor.

6.0.4 Environmental factor.

6.0.5 Quality factor.

6.0.6 Electrical Stress Factor.

13/11/2024

APPROVED BY

R. RADHIKA
SCIENTIST 'F'
CENTRE FOR REALIABILITY
STQC DIRECTORATE, MoitY,

AUTHORISED SIGNATORY

P. DANDAPANI
SCIENTIST 'E'
ELECTRONICS TEST & DEVELOPMENT CENTRE
STQC DIRECTORATE, MoitY

7.0 ENVIRONMENTAL CONDITIONS AND QUALITY LEVEL

7.1 STORAGE AND OPERATIONAL ENVIRONMENT

The Reliability Prediction has been performed using **Ground Fixed, Uncontrolled (Limited)** Environment based on the operational conditions of **5M ANPR Camera Model No. : K-ANPR-GS-5M.**

GROUND FIXED, UNCONTROLLED (Limited):

The environment involves low to moderate vibration/shock stress, low to moderate atmospheric variations, and moderate to high temperature cycling stresses, assuming a ruggedized enclosure provides protection.

TEMPERATURE

Reliability Prediction has been performed on **5M ANPR Camera Model No. : K-ANPR-GS-5M at** the **Ambient Temperature of 40 °C for Ground, Fixed, Uncontrolled (Limited) Environment.**

7.2 QUALITY LEVEL : Level 0

The unit has been evaluated and tested under the commercial-grade component Quality level-0 as defined. The components used in the unit were procured without undergoing thorough device qualification or lot-to-lot controls by the equipment manufacturer. However, steps have been followed to ensure that the unit meets quality standards and is compatible with the design application.

APPROVED BY 13/11/2024

R. RADHIKA
SCIENTIST 'F'
CENTRE FOR REALIABILITY
STQC DIRECTORATE, MeitY,
MINISTRY OF ELECTRONICS & INFORMATION TECHNOLOGY

AUTHORISED SIGNATORY

P. DANDAPANI
SCIENTIST 'E'
ELECTRONICS TEST & DEVELOPMENT CENTRE
STQC DIRECTORATE, MeitY.

8.0 REPORTS

Telcordia SR-332 Parts List Report
It gives the overall parts list that go into the blocks. It consists of component description, category description, part name, circuit reference, quantity and part number information.

Telcordia SR-332 Failure Rate Report
It consists of component level failure rate report. This list of components, its reference, description, type, quantity, and failure rates are indicated. It gives percentage contribution of the block/sub blocks components towards the total system failure rate.

Telcordia SR-332 Pi Factors Report
It consists of lists of component description, type, environment, quality, quantity, component specific parameters & their values and failure rates. The Stress Pi factors for each component are shown in the report.

Telcordia SR-332 Parameters Report
It consists of lists of components Physical and Application Parameters.

The above 4 reports are enclosed as Annexure I (15 pages), II (15 pages), III (30 pages), IV(26 pages).

R. R 13/11/2024

APPROVED BY

R. RADHIKA
SCIENTIST 'F'
CENTRE FOR REALIABILITY
STQC DIRECTORATE, MeitY,
MINISTRY OF ELECTRONICS & INFORMATION TECHNOLOGY

AUTHORISED SIGNATORY

P. DANDAPANI
SCIENTIST 'F'
ELECTRONICS TEST & DEVELOPMENT CENTRE
STQC DIRECTORATE, MeitY,

9.0 System Analysis Summary

The overall estimated MTBF and Failure Rate as per Telcordia SR-332 Issue 4 Standard of **5M ANPR Camera Model No. : K-ANPR-GS-5M, submitted by M/s Keltron (Kerala State Electronics Development Corporation Ltd.)** for reliability prediction analysis are summarized as follows:

SUB-SYSTEM OF : **5M ANPR Camera**
Model No. : K-ANPR-GS-5M

S.No.	Sub System	Environment & Ambient Temperature	FAILURE RATE (FITS) Failures per billion hours	MTBF (hours)
1	PCB MTX 581.5	Ground Fixed, Uncontrolled (Limited) at 40°C	163.025330765	6134016.0778
2	PCB MTX 744.6	Ground Fixed, Uncontrolled (Limited) at 40°C	680.745763100	1468977.1926
3	PCB MTX 808.3	Ground Fixed, Uncontrolled (Limited) at 40°C	1718.784242477	581806.5905
4	PCB MTX 809.1	Ground Fixed, Uncontrolled (Limited) at 40°C	117.4517688	8514133.1654

SYSTEM : **5M ANPR Camera**
Model No. : K-ANPR-GS-5M

Environment	Ambient Temperature	FAILURE RATE (FITS) Failures per billion hours	MTBF (hours)
Ground Fixed, Uncontrolled (Limited)	40°C	2680.007105	373133.3391

Note: The MTBF calculations are done as per the details (type of components, quantity, component parameters, electrical stress, temperature, environment and quality) submitted by Keltron in their Bill of Material.

13/11/2024

APPROVED BY
R. RADHIKA
SCIENTIST 'F'
CENTRE FOR REALIABILITY
STQC DIRECTORATE, MeitY,

AUTHORISED SIGNATORY

ELECTRONICS TEST & DEVELOPMENT CENTRE
STQC DIRECTORATE, MeitY

Report No. CFR/1829/24-25
(15 Pages)

Annexure- I

Telcordia SR-332,Issue 4

PARTS LIST REPORT

(Temperature 40 ℃)

TELCORDIA SR-332 PART LIST REPORT

Name: 5M ANPR Camera Model No. : K-ANPR-GS-5M
Failure Rate (in FITS): 2680.0071
MTBF: 373133.3391

Sl No	Part Number	Category Description	Device Type	Description	Quantity
1	*PCB MTX 581.5*	*Unit*			
1.1	RMCF0603FT22K0	Resistor	FILM (Carbon, Oxide, Metal)	R-22K-SF-0603-AEC	1
1.2	CRCW06031K20FKEA	Resistor	FILM (Carbon, Oxide, Metal)	R-1.2K-SF-0603-AEC	1
1.3	RMCF0603FT2K20	Resistor	FILM (Carbon, Oxide, Metal)	R-2.2K-SF-0603-AEC	1
1.4	RMCF0603FT220R	Resistor	FILM (Carbon, Oxide, Metal)	R-220-SF-0603-AEC	1
1.5	3362P-501LF	Resistor(Variable)	NON-WIREWOUND,Film	PRESET-3362P-500E	1
1.6	GRT188R61C475KE13J	Capacitor	Fixed, Ceramic	CAP-X7RS-4.7UF-16K-0603-AEC	1
1.7	GRT188R61C475KE13J	Capacitor	Fixed, Ceramic	CAP-X7RS-4.7UF-16K-0603-AEC	1
1.8	UMK107BJ104KAHT	Capacitor	Fixed, Ceramic	CAP-X7RS- 0.1UF-50K-0603-AEC	2
1.9	AP2138N-3.3TRG1	IC-Analog Device	Voltage regulator	IC - AP2138N-3.3TRG1	1
1.10	MCP6051T-E/OT	IC-Analog Device	Op-amp	IC - MCP6051 T-E/OT	1
1.11	SFH5711-2/3-Z	IC-Analog Device	Light sensor	IC - SFH5711-2/3-Z	1
2	*PCB MTX 744.6*				
2.1	RMCF0402FT10R0	Resistor	FILM (Carbon, Oxide, Metal)	R-10E-SF-0402-AEC	10
2.2	RMCF0402JT22R0	Resistor	FILM (Carbon, Oxide, Metal)	R-22E-SJ-0402-AEC	3
2.3	RMCF0402FT33R0	Resistor	FILM (Carbon, Oxide, Metal)	R-33E-SF-0402-AEC	5
2.4	CRCW040210ORFKED	Resistor	FILM (Carbon, Oxide, Metal)	R-100E-SF-0402-AEC	16
2.5	RMCF0402JT1K00	Resistor	FILM (Carbon, Oxide, Metal)	R-1K-SJ-0402-AEC	1

No	Part Number	Category Description	Device Type	Description	Quantity
2.6	RMCF0402JT1K00	Resistor	FILM (Carbon, Oxide, Metal)	R-1K-SJ-0402-AEC	1
2.7	RMCF0402JT1K00	Resistor	FILM (Carbon, Oxide, Metal)	R-1K-SJ-0402-AEC	1
2.8	RMCF0402JT1K00	Resistor	FILM (Carbon, Oxide, Metal)	R-1K-SJ-0402-AEC	2
2.9	RMCF0402FT1K80	Resistor	FILM (Carbon, Oxide, Metal)	R-1.8K-SF-0402-AEC	1
.10	RMCF0603FT2K20	Resistor	FILM (Carbon, Oxide, Metal)	R-2.2K-SF-0603-AEC	1
.11	RMCF0603FT3K30	Resistor	FILM (Carbon, Oxide, Metal)	R-3.3K-SF-0603-AEC	1
.12	CRCW040210K0FKED	Resistor	FILM (Carbon, Oxide, Metal)	R-10K-SF-0402-AEC	5
.13	RMCF0603FT12K0	Resistor	FILM (Carbon, Oxide, Metal)	R-12K-SF-0603-AEC	1
.14	RMCF0402FT14K0	Resistor	FILM (Carbon, Oxide, Metal)	R-14K-SF-0402-AEC	1
.15	CRCW0402100KFKED	Resistor	FILM (Carbon, Oxide, Metal)	R-100K-SF-0402-AEC	3
.16	RMCF0402FT47R0	Resistor	FILM (Carbon, Oxide, Metal)	R-47E-SF-0402-AEC	2
.17	CRCW060347R0FKEA	Resistor	FILM (Carbon, Oxide, Metal)	R-47E-SF-0603-AEC	1
.18	RMCF0402FT4K70	Resistor	FILM (Carbon, Oxide, Metal)	R-4.7K-SF-0402-AEC	1
.19	RMCF0402FT4K70	Resistor	FILM (Carbon, Oxide, Metal)	R-4.7K-SF-0402-AEC	2
.20	RMCF0603FT8K20	Resistor	FILM (Carbon, Oxide, Metal)	R-8.2K-SF-0603-AEC	1
.21	RMCF0603FT10K0	Resistor	FILM (Carbon, Oxide, Metal)	R-10K-SF-0603-AEC	5
.22	RMCF0603FT1K00TR	Resistor	FILM (Carbon, Oxide, Metal)	R-1K-SF-0603-AEC	1
.23	RMCF0603FT47K0	Resistor	FILM (Carbon, Oxide, Metal)	R-47K-SF-0603-AEC	1
.24	06035C102KAT2A	Capacitor	Fixed, Ceramic	CAP-X7RS-1KPF-50V-0603	3
.25	06035C102KAT2A	Capacitor	Fixed, Ceramic	CAP-X7RS-1KPF-50V-0603	1
.26	GRM155R61A475MEAAD	Capacitor	Fixed, Ceramic	CAP-X5RS-4.7uF-10V-0402	8
.27	GRM155R61A475MEAAD	Capacitor	Fixed, Ceramic	CAP-X5RS-4.7uF-10V-0402	1

Sl No	Part Number	Category Description	Device Type	Description	Quantity
2.28	UMK107AB7105KA-T	Capacitor	Fixed, Ceramic	CAP-X5RS-1uF-50V-0603	3
2.29	UMK107AB7105KA-T	Capacitor	Fixed, Ceramic	CAP-X5RS-1uF-50V-0603	2
2.30	UMK107AB7105KA-T	Capacitor	Fixed, Ceramic	CAP-X5RS-1uF-50V-0603	3
2.31	GRT188R61C106KE13J	Capacitor	Fixed, Ceramic	CAP-X5RS-10uF-16V-0603-AEC	11
2.32	GRM188R61A226ME15D	Capacitor	Fixed, Ceramic	CAP-X5RS-22uF-10V-0603	1
2.33	GRM188R61A226ME15D	Capacitor	Fixed, Ceramic	CAP-X5RS-22uF-10V-0603	2
2.34	TMK212BBJ106KGHT	Capacitor	Fixed, Ceramic	CAP-X5RS-10uF-25V-0805-AEC	1
2.35	TMK212BBJ106KGHT	Capacitor	Fixed, Ceramic	CAP-X5RS-10uF-25V-0805-AEC	1
2.36	GRM13CR61A476ME15L	Capacitor	Fixed, Ceramic	CAP-X5RS-47uF-10V-1206	2
2.37	GRM13CR61A476ME15L	Capacitor	Fixed, Ceramic	CAP-X5RS-47uF-10V-1206	2
2.38	GRM13CR61A476ME15L	Capacitor	Fixed, Ceramic	CAP-X5RS-47uF-10V-1206	14
2.39	GRT155R71C104KE01J	Capacitor	Fixed, Ceramic	CAP-X7RS-0.1uF-16V-0402-AEC	30
2.40	GRT155R71C104KE01J	Capacitor	Fixed, Ceramic	CAP-X7RS-0.1uF-16V-0402-AEC	4
2.41	GRT155R71C104KE01J	Capacitor	Fixed, Ceramic	CAP-X7RS-0.1uF-16V-0402-AEC	13
2.42	GRT155R71C104KE01J	Capacitor	Fixed, Ceramic	CAP-X7RS-0.1uF-16V-0402-AEC	23
2.43	06035C331KAT2A	Capacitor	Fixed, Ceramic	CAP-X7RS-330pF-50V-0603	1
2.44	UMK107BJ104KAHT	Capacitor	Fixed, Ceramic	CAP-X7RS-0.1UF-50V-0603-AEC	2
2.45	UMK107BJ104KAHT	Capacitor	Fixed, Ceramic	CAP-X7RS-0.1UF-50V-0603-AEC	5
2.46	GRT188R61C475KE13J	Capacitor	Fixed, Ceramic	CAP-X5RS-4.7uF-16V-0603-AEC	19
2.47	GRT188R61C475KE13J	Capacitor	Fixed, Ceramic	CAP-X5RS-4.7uF-16V-0603-AEC	3
2.48	GRT188R61C475KE13J	Capacitor	Fixed, Ceramic	CAP-X5RS-4.7uF-16V-0603-AEC	6
2.49	GRT188R61C475KE13J	Capacitor	Fixed, Ceramic	CAP-X5RS-4.7uF-16V-0603-AEC	2

No	Part Number	Category Description	Device Type	Description	Quantity
50	EEU-FM1A471BJ	Capacitor	Fixed, Aluminium, Electrolytic	CAP-ELEFMA-470uF-10V	2
51	FH55-31S-0.5SH	Connector	Multi-Pin	CON-FFC-31P-FH55-31S-0.5SH	1
52	M50-3630442	Connector	Multi-Pin	CONN HEADER SMD 4POS 1.27MM M50-3630442	1
53	1N4148WSF-7	Diode	Silicon ,General Purpose	D-1N4148-WSF SOD323 (75V, 300MA)	2
54	SI2329DS-T1-GE3	Transistor	FIELD EFFECT,Silicon, Switch	TR-SI2329DS-T1-GE3	3
55	DMN3042L-7	Transistor	FIELD EFFECT,Silicon, Switch	TR-DMN3042L	3
56	MMBT3904L	Transistor	SILICON,NPN/PNP, <0.6 W	TR-MMBT3904L	1
57	SIT1602BI-21-18E-74.250000	Crystal	CRYSTAL OSCILLATOR, Quartz Controlled	XTAL-ASEMB-74.250MH2-LR-T-18E / SIT1602BI-21-18E	1
58	IMX565AAQJ-C	IC-Analog Device	IMAGE SENSOR ANALOG	IC-IMX565AAQJ-C	1
59	LD39200DPUR	IC-Analog Device	ANALOG	IC-LD39200DPUR	1
60	AP7331-WG-7	IC-Analog Device	ANALOG	IC-AP7331-WG-7	2
61	ZXGD3009E6TA	IC-Analog Device	ANALOG	IC-ZXGD3009E6TA	1
62	APX809-26SAG-7	IC-Analog Device	ANALOG	IC-APX809-26SAG-7	1
63	SN74LVC1G17DBVR	IC-Digital Device	IC-SN74LVC1G17DBVR	CMOS	2
64	LM3880QMF-1AB/NOPB	IC-Digital Device	IC-LM3880QMF-1AB/NOPB	CMOS	1
65	TCA9800DGKT	IC-Digital Device	IC-TCA9800DGKT	CMOS	1
66	TXB0106PWR	IC-Digital Device	IC-TXB0106PWR	CMOS	1
67	SN74LVC1G74DCUR	IC-Digital Device	IC-SN74LVC1G74DCUR	CMOS	1
68	SN74LVC1G32DBVR	IC-Digital Device	IC-SN74LVC1G32DBVR	CMOS	1

Sl No	Part Number	Category Description	Device Type	Description	Quantity
2.69	ATTINY204-SSNR	IC-Microprocessor	IC-ATTINY204-SSNR	CMOS	1
2.70	MMZ1608B221CTAH0	Other	IND-FB-220E- MMZ1608B	220 Ohms @ 100 MHz 1 Signal Line Ferrite Bead 0603 (1608 Metric) 500mA 250mOhm	11
2.71	MMZ1608B221CTAH0	Other	IND-FB-220E- MMZ1608B	220 Ohms @ 100 MHz 1 Signal Line Ferrite Bead 0603 (1608 Metric) 500mA 250mOhm	1
3	*PCB MTX 808.3*				
3.1	CRCW0402100RFKED	Resistor	FILM (Carbon, Oxide, Metal)	R-100E-SF-0402-AEC	4
3.2	CRCW0402100RFKED	Resistor	FILM (Carbon, Oxide, Metal)	R-100E-SF-0402-AEC	10
3.3	CRCW0402100RFKED	Resistor	FILM (Carbon, Oxide, Metal)	R-100E-SF-0402-AEC	4
3.4	RMCF0402FT10R0	Resistor	FILM (Carbon, Oxide, Metal)	R-10E-SJ-0402-AEC	2
3.5	RMCF0402FT10K0	Resistor	FILM (Carbon, Oxide, Metal)	R-10K-SF-0402-AEC	10
3.6	RMCF0402JT1K00	Resistor	FILM (Carbon, Oxide, Metal)	R-1K-SJ-0402-AEC	1
3.7	CRCW0402K20FKED	Resistor	FILM (Carbon, Oxide, Metal)	R-2.2K-SJ-0402-AEC	2
3.8	RMC0402FT22R0	Resistor	FILM (Carbon, Oxide, Metal)	R-22E-SJ-0402-AEC	8
3.9	RMC0402FT33R0	Resistor	FILM (Carbon, Oxide, Metal)	R-33E-SF-0402-AEC	2
3.10	RMCF0402FT4R70	Resistor	FILM (Carbon, Oxide, Metal)	R-4.7E-SF-0402-AEC	8
3.11	RMCF0402FT4K70	Resistor	FILM (Carbon, Oxide, Metal)	R-4.7K-SJ-0402-AEC	1
3.12	RMCF0402FT499R	Resistor	FILM (Carbon, Oxide, Metal)	R-499E-SF-0402-AEC	8
3.13	RMCF0603FT100R	Resistor	FILM (Carbon, Oxide, Metal)	R-100E-SF-0603-AEC	18
3.14	RMCF0603FT100R	Resistor	FILM (Carbon, Oxide, Metal)	R-100E-SF-0603-AEC	1
3.15	RMCF0603FT100R	Resistor	FILM (Carbon, Oxide, Metal)	R-100E-SF-0603-AEC	3
3.16	RMCF0603FT100K	Resistor	FILM (Carbon, Oxide, Metal)	R-100K-SF-0603-AEC	4

No	Part Number	Category Description	Device Type	Description	Quantity
.17	RMCF0603FT10K0	Resistor	FILM (Carbon, Oxide, Metal)	R-10K-SF-0603-AEC	18
.18	RMCF0603FT10K0	Resistor	FILM (Carbon, Oxide, Metal)	R-10K-SF-0603-AEC	1
.19	RMCF0603FT10K0	Resistor	FILM (Carbon, Oxide, Metal)	R-10K-SF-0603-AEC	1
.20	RMCF0603FT10K0	Resistor	FILM (Carbon, Oxide, Metal)	R-10K-SF-0603-AEC	1
.21	RMCF0603FT130K	Resistor	FILM (Carbon, Oxide, Metal)	R-130K-SF-0603-AEC	1
.22	CRCW0603150KFKEA	Resistor	FILM (Carbon, Oxide, Metal)	R-150K-SJ-0603-AEC	1
.23	RMCF0603FT15K0	Resistor	FILM (Carbon, Oxide, Metal)	R-15K-SF-0603-AEC	4
.24	CRCW06031K30FKEA	Resistor	FILM (Carbon, Oxide, Metal)	R-1.3K-SF-0603-AEC	1
.25	RMCF0603FT1K00	Resistor	FILM (Carbon, Oxide, Metal)	R-1K-SF-0603-AEC	5
.26	RMCF0603FT1K00	Resistor	FILM (Carbon, Oxide, Metal)	R-1K-SF-0603-AEC	1
.27	RMCF0603FT1K00	Resistor	FILM (Carbon, Oxide, Metal)	R-1K-SF-0603-AEC	1
.28	RMCF0603FT1K00	Resistor	FILM (Carbon, Oxide, Metal)	R-1K-SF-0603-AEC	4
.29	RMCF0603FT1M00	Resistor	FILM (Carbon, Oxide, Metal)	R-1M-SF-0603-AEC	2
.30	ERJ-3EKF2051V	Resistor	FILM (Carbon, Oxide, Metal)	R-2.05K-SF-0603-AEC	1
.31	RMCF0603FT2K10	Resistor	FILM (Carbon, Oxide, Metal)	R-2.1K-SF-0603-AEC	1
.32	RMCF0603FT2K20	Resistor	FILM (Carbon, Oxide, Metal)	R-2.2K-SF-0603	1
.33	RMCF0603FT2K20	Resistor	FILM (Carbon, Oxide, Metal)	R-2.2K-SF-0603	1
.34	RMCF0603FT2K20	Resistor	FILM (Carbon, Oxide, Metal)	R-2.2K-SF-0603	8
.35	RMCF0603FT220R	Resistor	FILM (Carbon, Oxide, Metal)	R-220E-SF-0603	1
.36	RMCF0603FT220R	Resistor	FILM (Carbon, Oxide, Metal)	R-220E-SF-0603	1
.37	CRCW060322R0FKEAHP	Resistor	FILM (Carbon, Oxide, Metal)	R-22E-CRCW -0603-AS-HP-e3	5
.38	RMCF0603FT22R0	Resistor	FILM (Carbon, Oxide, Metal)	R-22E-SF-0603-AEC	10

Sl No	Part Number	Category Description	Device Type	Description	Quantity
3.39	RMCF0603FT22K0	Resistor	FILM (Carbon, Oxide, Metal)	R-22K-SF-0603-AEC	2
3.40	RMCF0603FT3K30	Resistor	FILM (Carbon, Oxide, Metal)	R-3.3K-SF-0603-AEC	1
3.41	RMCF0603FT3K30	Resistor	FILM (Carbon, Oxide, Metal)	R-3.3K-SF-0603-AEC	1
3.42	RMCF0603FT3K30	Resistor	FILM (Carbon, Oxide, Metal)	R-3.3K-SF-0603-AEC	2
3.43	RMCF0603FT3K30	Resistor	FILM (Carbon, Oxide, Metal)	R-3.3K-SF-0603-AEC	5
3.44	RMCF0603FT33K0	Resistor	FILM (Carbon, Oxide, Metal)	R-33K-SF-0603-AEC	5
3.45	RMCF0603FT4K70	Resistor	FILM (Carbon, Oxide, Metal)	R-4.7K-SF-0603-AEC	2
3.46	RMCF0603FT4K70	Resistor	FILM (Carbon, Oxide, Metal)	R-4.7K-SF-0603-AEC	5
3.47	RMCF0603FT4K70	Resistor	FILM (Carbon, Oxide, Metal)	R-4.7K-SF-0603-AEC	1
3.48	RMCF0603FT470R	Resistor	FILM (Carbon, Oxide, Metal)	R-470E-SF-0603-AEC	1
3.49	RMCF0603FT470R	Resistor	FILM (Carbon, Oxide, Metal)	R-470E-SF-0603-AEC	2
3.50	CRCW060350R0FKEA	Resistor	FILM (Carbon, Oxide, Metal)	R-50E-SF-0603-AEC	1
3.51	MCR03EZPFX5100	Resistor	FILM (Carbon, Oxide, Metal)	R-510E-SJ-0603-AEC	1
3.52	RMCF0603JT560R	Resistor	FILM (Carbon, Oxide, Metal)	R-560E-SJ-0603-AEC	1
3.53	RMCF0603FT56K0	Resistor	FILM (Carbon, Oxide, Metal)	R-56K-SF-0603-AEC	1
3.54	RMCF0603FT56K0	Resistor	FILM (Carbon, Oxide, Metal)	R-56K-SF-0603-AEC	1
3.55	RMCF0603FT75R0	Resistor	FILM (Carbon, Oxide, Metal)	R-75E-SF-0603-AEC	4
3.56	RL1220S-R50-F	Resistor	FILM (Carbon, Oxide, Metal)	R 0.5-RL12S-0805	1
3.57	CRCW0805100RFKEAH	Resistor	FILM (Carbon, Oxide, Metal)	R-100E-SJ-0805 AS-CRCW-HP-e3-AEC	2
3.58	CRCW080510R0FKEAHP	Resistor	FILM (Carbon, Oxide, Metal)	R-10E-SJ-0805 AS-CRCW-HP-e3-AEC	1
3.59	CRCW080510K0FKEA	Resistor	FILM (Carbon, Oxide, Metal)	R-10K-SF-0805-AEC	1
3.60	RL1220S-2R2-F	Resistor	FILM (Carbon, Oxide, Metal)	R-2E2-RL12S-0805	2

No	Part Number	Category Description	Device Type	Description	Quantity
61	CRCW1206100RJNEAH	Resistor	FILM (Carbon, Oxide, Metal)	R-100E -SJ-0.75W-1206-AS-HP-e3	1
62	CRCW1206100RJNEAH	Resistor	FILM (Carbon, Oxide, Metal)	R-100E -SJ-0.75W-1206-AS-HP-e3	1
63	CAP-X5RS-0.22uF-16K-0402	Capacitor	Fixed, Ceramic	GRM155R61C224KA12D	8
64	CAP-X7RS-0.1uF-16K-0402-AEC	Capacitor	Fixed, Ceramic	GRT155R71C104KE01D	6
65	CAP-X7RS-0.1uF-16K-0402-AEC	Capacitor	Fixed, Ceramic	GRT155R71C104KE01D	8
66	CAP-X7RS-0.1uF-16K-0402-AEC	Capacitor	Fixed, Ceramic	GRT155R71C104KE01D	8
67	CAP-COGS-100pF-50K-0603	Capacitor	Fixed, Ceramic	KGM15ACG1H101JT	1
68	CAP-COGS-12pF-50K-0603	Capacitor	Fixed, Ceramic	C0603C120J5GAC7867	1
69	CAP-COGS-33pF-100V-0603	Capacitor	Fixed, Ceramic	C0603C330J1GAC7867	2
70	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	Fixed, Ceramic	UMK107BJ104KAHT	2
71	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	Fixed, Ceramic	UMK107BJ104KAHT	1
72	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	Fixed, Ceramic	UMK107BJ104KAHT	2
73	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	Fixed, Ceramic	UMK107BJ104KAHT	8
74	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	Fixed, Ceramic	UMK107BJ104KAHT	22

Sl No	Part Number	Category Description	Device Type	Description	Quantity
3.75	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	Fixed, Ceramic	UMK107BJ104KAHT	14
3.76	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	Fixed, Ceramic	UMK107BJ104KAHT	2
3.77	CAP-X5RS-0.22uF-50V-0603-AEC	Capacitor	Fixed, Ceramic	GCM188R71H224KA64D	1
3.78	CAP-X5RS-10uF-16K-0603-AEC	Capacitor	Fixed, Ceramic	GRT188R61C106KE13J	6
3.79	CAP-X5RS-2.2uF-50V-0603-AEC	Capacitor	Fixed, Ceramic	GRT188R61H225KE13D	1
3.80	CAP-X5RS-2.2uF-50V-0603-AEC	Capacitor	Fixed, Ceramic	GRT188R61H225KE13D	1
3.81	CAP-X7RS-1KpF-50V-0603	Capacitor	Fixed, Ceramic	06035C102KAT2A	1
3.82	CAP-X7RS-1KpF-50V-0603	Capacitor	Fixed, Ceramic	06035C102KAT2A	1
3.83	CAP-X7RS-1uF-50K-0603	Capacitor	Fixed, Ceramic	UMK107AB7105KA-T	2
3.84	CAP-X7RS-22KpF-50V-0603-AEC	Capacitor	Fixed, Ceramic	06035C223K4T2A	1
3.85	CAP-FILTER-0.1uF-25V-0805-NFM21PC104R1E3D	Capacitor	Fixed, Ceramic	NFM21PC104R1E3D	1
3.86	CAP-FILTER-0.1uF-25V-0805-NFM21PC104R1E3D	Capacitor	Fixed, Ceramic	NFM21PC104R1E3D	1
3.87	CAP-X5RS-10uF-25V-0805-AEC	Capacitor	Fixed, Ceramic	TMK212BBJ106KGHT	1

Sl No	Part Number	Category Description	Device Type	Description	Quantity
3.88	CAP-X5RS-10uF-25V-0805-AEC	Capacitor	Fixed, Ceramic	TMK212BBJ106KGHT	1
3.89	CAP-X5RS-10uF-25V-0805-AEC	Capacitor	Fixed, Ceramic	TMK212BBJ106KGHT	5
3.90	CAP-X5RS-2.2uF-16V-0805-AEC	Capacitor	Fixed, Ceramic	GRT21BR61C226ME13L	1
3.91	CAP-X5RS-4.7uF-16V-0805-AEC	Capacitor	Fixed, Ceramic	EMK212ABJ475KGHT	1
3.92	CAP-X5RS-4.7uF-16V-0805-AEC	Capacitor	Fixed, Ceramic	EMK212ABJ475KGHT	1
3.93	CAP-X5RS-4.7uF-16V-0805-AEC	Capacitor	Fixed, Ceramic	EMK212ABJ475KGHT	4
3.94	CAP-X5RS-4.7uF-16V-0805-AEC	Capacitor	Fixed, Ceramic	EMK212ABJ475KGHT	7
3.95	CAP-X5RS-47uF-10K-0805	Capacitor	Fixed, Ceramic	GRM21BR61A476ME15L	1
3.96	CAP-X7RS-0.22uF-100K-0805	Capacitor	Fixed, Ceramic	UMK212B7224KG-T	1
3.97	CAP-X7RS-10nF-100V-0805	Capacitor	Fixed, Ceramic	C0805C103K1RACTU	4
3.98	CAP-X5RS-47uF-16V-1206	Capacitor	Fixed, Ceramic	GRM31CR61C476ME44K	6
3.99	CAP-X6S-10uF-25K-1206-AEC	Capacitor	Fixed, Ceramic	GRT31CC81E106KE01L	2
3.100	CAP-X7RS-1000pF-2KV-1206	Capacitor	Fixed, Ceramic	1206GC102KAT2A	1

Sl No	Part Number	Category Description	Device Type	Description	Quantity
3.101	CAP-X7RS-1000pF-2KV-1206	Capacitor	Fixed, Ceramic	1206GC102KAT2A	1
3.102	CAP-ELE-FC-330uF-16V	Capacitor	Fixed, Aluminium, Electrolytic	EEU-FC1C331	2
3.103	CAP-ELEYXJ-220uF-25V	Capacitor	Fixed, Aluminium, Electrolytic	25YXJ220M6	3
3.104	PJ-102AH	Connector	General Purpose, Power	CON-DCJ-PJ-102AH	1
3.105	2309411-1	Connector	Multi-Pin	CON-DDR4-SODIMM-SOCKET-260 PIN 2309411-1	1
3.106	XF3M-3115-1B	Connector	Ribbon Cable	CON-FFC-31P-RA-XF3M-3115-1B	1
3.107	55-53000-001	Connector	Multi-Pin	CON-HDMI-19P-RA-55-53000-001	1
3.108	DF1BZ-2P-2.5DSA	Connector	General Purpose, Power	CON-HDR-2P-MST-DF1BZ-H10982	1
3.109	DF1BZ-3P-2.5DSA	Connector	General Purpose, Power	CON-HDR-3P-MST-DF1BZ-H10983	2
3.110	10128798-005RLF	Connector	Multi-Pin	CON-M.2-75P-F-10128798-005RLF	1
3.111	615008137421	Connector	Multi-Pin	CON-RJ45-RA-615008137421	1
3.112	61400416021	Connector	Multi-Pin	CON-USB-4P-TYPE A-MRA-61400416021	1
3.113	CH28-2032LF	Connector	General Purpose, Power	E-CELL-HOLDER- CH28-2032LF	1
3.114	ICD15S13E4GX00LF	Connector	Multi-Pin	DSUB-15-F-RA-VGA	1
3.115	1N4148WQ-7-F	Diode	Silicon ,General Purpose	D-1N 4148WQ-100V-SOD123	10
3.116	1N4148WSF-7	Diode	Silicon ,General Purpose	D-1N4148WSF-7-SOD323	1
3.117	BAS70W-05-7-F	Diode	Silicon ,General Purpose	D-BAS70W-05-7-F	1
3.118	CGRM4007-G	Diode	Silicon ,General Purpose	D-CGRM4007 -SOD123	2
3.119	PNE20020ERX	Diode	Silicon ,General Purpose	D-PNE20020ERX	8
3.120	AQ3522-01FTG	Diode*	TVS Surge Supressor	D-TVS-AQ3522-01FTG-5V	4

Sl No	Part Number	Category Description	Device Type	Description	Quantity
3.121	CDSOD323-T03	Diode	TVS Surge Supressor	D-TVS-CDSOD323-T03-UNI	2
3.122	RCLAMP0524J.TCT	Diode	TVS Surge Supressor	D-TVS-RCLAMP0524J.TCT	3
3.123	SD05-7	Diode	TVS Surge Supressor	D-TVS-SD05-7-SOD323 -UNI	5
3.124	SD12CT1G0SCT	Diode	TVS Surge Supressor	D-TVS-SD12CT1G0SCT	1
3.125	SMAJ15A	Diode	TVS Surge Supressor	D-TVS-SMAJ15ALFCT	1
3.126	SMAJ15CA	Diode	TVS Surge Supressor	D-TVS-SMAJ15CALF	4
3.127	SMBJ20A	Diode	TVS Surge Supressor	D-TVS-SMBJ20A	1
3.128	SMF5.0A-TP	Diode	TVS Surge Supressor	D-TVS-SMF5.0A-TP	2
3.129	SP0504SHTG	Diode	TVS Surge Supressor	D-TVS-SP0504SHTG	3
3.130	BZX3845O-C1V8-QF	Diode	Voltage Regulator	D-ZNR-1.8V-300MW-BZX3845O-Q-SOD323	1
3.131	SMAZ5V1-TP	Diode	Voltage Regulator	D-ZNR-5.1V-SMAZ5V1-TP	1
3.132	DMN3042L-7	Transistor	FIELD EFFECT,Silicon, Switch	TR-DMN3042L-7	6
3.133	DMP2305UDICT	Transistor	FIELD EFFECT,Silicon, Switch	TR-DMP2305UDICT	1
3.134	FDS4435BZCT	Transistor	FIELD EFFECT,Silicon, Switch	TR-FDS4435BZCT	1
3.135	FDS6375	Transistor	FIELD EFFECT,Silicon, Switch	TR-FDS6375	1
3.136	FMMT618TA	Transistor	SILICON,NPN/PNP,> 0.6 and < 6.0 w	TR-FMMT618TA	4
3.137	MMBT3904	Transistor	SILICON,NPN/PNP, <0.6 W	TR-MMBT3904	5
3.138	MV5439A	Opto-Electronic Device	Single LED/LCD Segment	LED-5mm-BI COLOUR-MV5439A	1

Sl No	Part Number	Category Description	Device-Type	Description	Quantity
3.139	150080VS75000	Opto-Electronic Device	Single LED/LCD Segment	LED-GREEN-0805 - 150080VS75000	6
3.140	CT2184LPST	Switch	Rocker or Slide	SW-DIP-4W- SMD-CT2184LPST	1
3.141	TL58XF160Q	Switch	Pushbutton	SW-TACT-TL58XF160Q	1
3.142	830000335	Crystal	QUARTZ CRYSTAL	XTAL 7.372 MHz HC49S	1
3.143	ECS-327MVATX-7-CN-TR	Crystal	CRYSTAL OSCILLATOR, Quartz Controlled	XTAL-OSC-32.768KHZ-ECS	1
3.144	AP2138N-1.8TRG1	IC-Analog Device	Voltage regulator linear	IC-AP2138N-1.8TRG1	1
3.145	DRV8833PW	IC-Analog Device	Motor driver	IC-DRV8833PW	1
3.146	MCP3221A5T-I/OTCT	IC-Analog Device	ADC	IC-MCP3221A5T-I/OTCT	1
3.147	TLV803ED29DBZR	IC-Analog Device	Voltage monitor	IC-TLV803ED29DBZR	2
3.148	TPS2042BDR	IC-Analog Device	Power switch	IC-TPS2042BDR	1
3.149	TPS22917DBVR	IC-Analog Device	Power switch	IC-TPS22917DBVR	2
3.150	TPS7A7401DSDR	IC-Analog Device	Voltage regulator linear	IC-TPS7A7401DSDR	1
3.151	74LVC1G14GVQ100,1	IC-Digital Device	74LVC1G14GVQ100,1	CMOS	2
3.152	74LVC1G17DBVR	IC-Digital Device	IC-74LVC1G17DBVR	CMOS	2
3.153	MCP9808T-E/MS	IC-Digital Device	IC-MCP9808T-E/MS	CMOS	1
3.154	PCA9617ADPJ	IC-Digital Device	IC-PCA9617ADPJ	CMOS	1
3.155	PCF2129T-2, 518	IC-Digital Device	IC-PCF2129T-2, 518	CMOS	1
3.156	MAX33071EASA+	IC-Digital Device	IC-MAX33071EASA+	CMOS	2
3.157	SN74LVC1G74DCU	IC-Digital Device	IC-SN74LVC1G74DCU	CMOS	1
3.158	TXB0108PWR	IC-Digital Device	IC-TXB0108PWR	CMOS	2
3.159	AT24C02DSSHM-T	IC-Memory	IC-AT24C02DSSHM-T	ROM	1

Sl No	Part Number	Category Description	Device Type	Description	Quantity
3.160	ATMEGA88PA-AN	IC-Microprocessor	IC-ATMEGA88PA-AN	CMOS	1
3.161	0685T2000-01	Miscellaneous Devices	FUSE, < 30A	FUSE 2A SLOW BLOW/0685T2000-01/C1T2	1
3.162	SF-1206S100-2	Miscellaneous Devices	FUSE, < 30A	FUSE-SLOW-1A-SF-1206S/SF-1206S100-2	1
3.163	CR2032	Miscellaneous Devices	BATTERY,Lithium	COIN CELL-3V	1
3.164	742792096	Other	IND-FB-1K-1A-0805 -742792096	< 0.5A	6
3.165	742792022	Other	IND-FB-220E-2A-0805-742792022	< 0.5A	1
3.166	MMZ1608B221CTAH0	Other	IND-FB-220E-0603-MMZ1608B/500mA	< 0.2A	5
3.167	SM51589PEL	Other	TRF-SM51589PEL	1Volt, < 10 mA	1
4	*PCB MTX 809.1*				
4.1	RMCF0603FT33K0	Resistor	FILM (Carbon, Oxide, Metal)	R-33K-SF-0603-AEC	2
4.2	RMCF0603FT10K0	Resistor	FILM (Carbon, Oxide, Metal)	R-10K-SF-0603-AEC	3
4.3	CRCW06031K50FKEA	Resistor	FILM (Carbon, Oxide, Metal)	R-1.5K-SF-0603-AEC	1
4.4	CRCW060311K0FKEA	Resistor	FILM (Carbon, Oxide, Metal)	R-11K-SF-0603-AEC	1
4.5	RMCF0603FT2K20	Resistor	FILM (Carbon, Oxide, Metal)	R-2.2K-SF-0603-AEC	1
4.6	KGM15ACG1H101J	Capacitor	Fixed, Ceramic	CAP-X7RS-100pF-50K-0603	1
4.7	KGM15ACG1H101J	Capacitor	Fixed, Ceramic	CAP-X7RS-100pF-50K-0603	1
4.8	UMK107BJ104KAHT	Capacitor	Fixed, Ceramic	CAP-X7RS-0.1uF-50K-0603-AEC	4
4.9	GRT31CC81E106KE01L	Capacitor	Fixed, Ceramic	CAP-X6S-10uF-25K-1206-AEC	6
4.10	EMK316ABJ226KL-T	Capacitor	Fixed, Ceramic	CAP-X7RS-22uF-16K-1206	3
4.11	EMK316ABJ226KL-T	Capacitor	Fixed, Ceramic	CAP-X7RS-22uF-16K-1206	3

Sl No	Part Number	Category Description	Device Type	Description	Quantity
4.12	P9102-40-12-1 (40X1)	Connector	Multi-Pin	CON BERG 4P MRA -2.54MM	1
4.13	P9102-40-12-1 (40X1)	Connector	Multi-Pin	CON BERG 6P MRA - 2.54MM	1
4.14	SMAJ15ALFCT	Diode	TVS Surge Supressor	D-SMAJ15A SMA	1
4.15	TPS566247 DRLR	IC-Analog Device	Linear voltage regulator	IC-TPS566247 DRLR	2
4.16	0685T3000-01	Miscellaneous Devices	FUSE, < 30A	FUSE SLOW -C1T-3A-1206	1
4.17	ACM1211-102-2PL-TL01	Other	CHK-ACM 1211-102-2PL-TL00	Max 1 A current	1
4.18	DD1217AS-H-4R7N=P3	Other	IND-4.7uH-7A-DD1217AS-H4R7N	max 3 A	2

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(15 Pages)

Annexure- II

Telcordia SR-332,Issue 4

FAILURE RATE REPORT

(Temperature 40 ℃)

TELCORDIA SR-332 FAILURE RATE REPORT

Name: 5M ANPR Camera Model No. : K-ANPR-GS-5M
Failure Rate (in FITS): 2680.0071
MTBF: 373133.3391

Sl No	Part Number	Category Description	Description	Quantity	Failure Rate	N × Failure Rate	Percent Contribution
1	*PCB MTX 581.5*	*Unit*				2680.0071	100
1.1	RMCF0603FT22K0	Resistor	R-22K-SF-0603-AEC	1	0.304632966	0.304632966	0.011366872
1.2	CRCW06031K20FKEA	Resistor	R-1.2K-SF-0603-AEC	1	0.304632966	0.304632966	0.011366872
1.3	RMCF0603FT2K20	Resistor	R-2.2K-SF-0603-AEC	1	0.304632966	0.304632966	0.011366872
1.4	RMCF0603FT220R	Resistor	R-220-SF-0603-AEC	1	0.304632966	0.304632966	0.011366872
1.5	3362P-501LF	Resistor(Variable)	PRESET-3362P-500E	1	33.5741147	33.5741147	1.252762153
1.6	GRT188R61C475KE13J	Capacitor	CAP-X7RS-4.7UF-16K-0603-AEC	1	0.215913143	0.215913143	0.008056439
1.7	GRT188R61C475KE13J	Capacitor	CAP-X7RS-4.7UF-16K-0603-AEC	1	0.333786381	0.333786381	0.012454683
1.8	UMK107BJ104KAHT	Capacitor	CAP-X7RS- 0.1UF-50K-0603-AEC	2	0.12149234	0.242984679	0.009066568
1.9	AP2138N-3.3TRG1	IC-Analog Device	IC - AP2138N-3.3TRG1	1	42.480000000	42.480000000	1.585070425
1.10	MCP6051T-E/OT	IC-Analog Device	IC - MCP6051 T-E/OT	1	42.480000000	42.480000000	1.585070425
1.11	SFH5711-2/3-Z	IC-Analog Device	IC - SFH5711-2/3-Z	1	42.480000000	42.480000000	1.585070425
2	*PCB MTX 744.6*						
2.1	RMCF0402FT10R0	Resistor	R-10E-SF-0402-AEC	10	0.306967716	3.069677157	0.114539889
2.2	RMCF0402JT22R0	Resistor	R-22E-SJ-0402-AEC	3	0.306967716	0.920903147	0.034361967
2.3	RMCF0402FT33R0	Resistor	R-33E-SF-0402-AEC	5	0.306967716	1.534838578	0.057269944
2.4	CRCW040210DRFKED	Resistor	R-100E-SF-0402-AEC	16	0.306967716	4.911483451	0.183263822
2.5	RMCF0402JT1K00	Resistor	R-1K-SJ-0402-AEC	1	0.306967716	0.306967716	0.011453989
2.6	RMCF0402JT1K00	Resistor	R-1K-SJ-0402-AEC	1	0.313367775	0.313367775	0.011692796

Part Number	Category Description	Description	Quantity	Failure Rate	N × Failure Rate	Percent Contribution
RMCF0402JT1K00	Resistor	R-1K-5J-0402-AEC	1	0.326570987	0.326570987	0.012185452
RMCF0402JT1K00	Resistor	R-1K-5J-0402-AEC	2	0.369613131	0.739226262	0.027582996
RMCF0402FT1K80	Resistor	R-1.8K-SF-0402-AEC	1	0.313367775	0.313367775	0.011692796
RMCF0603FT2K20	Resistor	R-2.2K-SF-0603-AEC	1	0.304632966	0.304632966	0.011366872
RMCF0603FT3K30	Resistor	R-3.3K-SF-0603-AEC	1	0.304632966	0.304632966	0.011366872
CRCW040210K0FKED	Resistor	R-10K-SF-0402-AEC	5	0.306967716	1.534838578	0.057269944
RMCF0603FT12K0	Resistor	R-12K-SF-0603-AEC	1	0.304632966	0.304632966	0.011366872
RMCF0402FT14K0	Resistor	R-14K-SF-0402-AEC	1	0.306967716	0.306967716	0.011453989
CRCW0402100KFKED	Resistor	R-100K-SF-0402-AEC	3	0.306967716	0.920903147	0.034361967
RMCF0402FT47R0	Resistor	R-47E-SF-0402-AEC	2	0.306967716	0.613935431	0.022907978
CRCW060347R0FKEA	Resistor	R-47E-SF-0603-AEC	1	0.304632966	0.304632966	0.011366872
RMCF0402FT4K70	Resistor	R-4.7K-SF-0402-AEC	1	0.306967716	0.306967716	0.011453989
RMCF0402FT4K70	Resistor	R-4.7K-SF-0402-AEC	2	0.313367775	0.626735551	0.023385593
RMCF0603FT8K20	Resistor	R-8.2K-SF-0603-AEC	1	0.304632966	0.304632966	0.011366872
RMCF0603FT10K0	Resistor	R-10K-SF-0603-AEC	5	0.304632966	1.523164828	0.056834358
RMCF0603FT1K00TR	Resistor	R-1K-SF-0603-AEC	1	0.304632966	0.304632966	0.011366872
RMCF0603FT47K0	Resistor	R-47K-SF-0603-AEC	1	0.304632966	0.304632966	0.011366872
06035C102KAT2A	Capacitor	CAP-X7RS-1KPF-50V-0603	3	0.101438349	0.304315046	0.011355009
06035C102KAT2A	Capacitor	CAP-X7RS-1KPF-50V-0603	1	0.12149234	0.121492340	0.004533284
GRM155R61A475MEAAD	Capacitor	CAP-X5RS-4.7uF-10V-0402	8	0.358615654	2.868925228	0.107049165
GRM155R61A475MEAAD	Capacitor	CAP-X5RS-4.7uF-10V-0402	1	0.304372175	0.304372175	0.011357141
UMK107AB7105KA-T	Capacitor	CAP-X5RS-1uF-50V-0603	3	0.101438349	0.304315046	0.011355009

Sl No	Part Number	Category Description	Description	Quantity	Failure Rate	N × Failure Rate	Percent Contribution
2.29	UMK107AB7105KA-T	Capacitor	CAP-X5RS-1uF-50V-0603	2	0.107431261	0.214862522	0.008017237
2.30	UMK107AB7105KA-T	Capacitor	CAP-X5RS-1uF-50V-0603	3	0.117572035	0.352716106	0.013161014
2.31	GRT188R61C106KE13J	Capacitor	CAP-X5RS-10uF-16V-0603-AEC	11	0.215913143	2.375044575	0.088620831
2.32	GRM188R61A226ME15D	Capacitor	CAP-X5RS-22uF-10V-0603	1	0.304372175	0.304372175	0.011357141
2.33	GRM188R61A226ME15D	Capacitor	CAP-X5RS-22uF-10V-0603	2	0.358615654	0.717231307	0.026762291
2.34	TMK212BBJ106KGHT	Capacitor	CAP-X5RS-10uF-25V-0805-AEC	1	0.145510931	0.145510931	0.005429498
2.35	TMK212BBJ106KGHT	Capacitor	CAP-X5RS-10uF-25V-0805-AEC	1	0.358615654	0.358615654	0.013381146
2.36	GRM13CR61A476ME15L	Capacitor	CAP-X5RS-47uF-10V-1206	2	0.193882288	0.387764576	0.014468789
2.37	GRM13CR61A476ME15L	Capacitor	CAP-X5RS-47uF-10V-1206	2	0.304372175	0.608744350	0.022714281
2.38	GRM13CR61A476ME15L	Capacitor	CAP-X5RS-47uF-10V-1206	14	0.358615654	5.020619149	0.187336039
2.39	GRT155R71C104KE01J	Capacitor	CAP-X7RS-0.1uF-16V-0402-AEC	30	0.122869917	3.686097516	0.137540587
2.40	GRT155R71C104KE01J	Capacitor	CAP-X7RS-0.1uF-16V-0402-AEC	4	0.147010088	0.588040353	0.021941746
2.41	GRT155R71C104KE01J	Capacitor	CAP-X7RS-0.1uF-16V-0402-AEC	13	0.194878485	2.533420309	0.094530358
2.42	GRT155R71C104KE01J	Capacitor	CAP-X7RS-0.1uF-16V-0402-AEC	23	0.215913143	4.966002294	0.185298102
2.43	06035C331KAT2A	Capacitor	CAP-X7RS-330pF-50V-0603	1	0.109207661	0.109207661	0.004074902
2.44	UMK1078J104KAHT	Capacitor	CAP-X7RS-0.1UF-50V-0603-AEC	2	0.107431261	0.214862522	0.008017237
2.45	UMK1078J104KAHT	Capacitor	CAP-X7RS-0.1UF-50V-0603-AEC	5	0.12149234	0.607461698	0.022666421
2.46	GRT188R61C475KE13J	Capacitor	CAP-X5RS-4.7uF-16V-0603-AEC	19	0.122869917	2.334528427	0.087109039
2.47	GRT188R61C475KE13J	Capacitor	CAP-X5RS-4.7uF-16V-0603-AEC	3	0.147010088	0.441030265	0.016456310
2.48	GRT188R61C475KE13J	Capacitor	CAP-X5RS-4.7uF-16V-0603-AEC	6	0.194878485	1.169270912	0.043629396
2.49	GRT188R61C475KE13J	Capacitor	CAP-X5RS-4.7uF-16V-0603-AEC	2	0.215913143	0.431826286	0.016112878
2.50	EEU-FM1A471BJ	Capacitor	CAP-ELEFMA-470uF-10V	2	7.181771891	14.363543783	0.535951705

Part Number	Category Description	Description	Quantity	Failure Rate	N × Failure Rate	Percent Contribution
FH55-31S-0.5SH	Connector	CON-FFC -31P-FH55-31S-0.5SH	1	8.928000000	8.928000000	0.333133445
M50-3630442	Connector	CONN HEADER SMD 4POS 1.27MM M50-3630442	1	1.152000000	1.152000000	0.042984961
1N4148WSF-7	Diode	D-1N4148-WSF SOD323 (75V, 300MA)	2	0.466958481	0.933916961	0.034847555
SI2329DS-T1-GE3	Transistor	TR-SI2329DS-T1-GE3	3	7.641183484	22.92355045	0.855354092
DMN3042L-7	Transistor	TR-DMN3042L	3	7.641183484	22.92355045	0.855354092
MMBT3904L	Transistor	TR-MMBT3904L	1	0.8878232	0.8878232	0.033127644
SIT1602BI-21-18E-74.250000	Crystal	XTAL-ASEMB-74.250MHZ-LR-T-18E / SIT1602BI-21-18E	1	23.04	23.04	0.859699213
IMX565AAQJ-C	IC-Analog Device	IC-IMX565AAQJ-C	1	100.784382259	100.784382259	3.760601308
LD39200DPUR	IC-Analog Device	IC-LD39200DPUR	1	42.480000000	42.480000000	1.585070425
AP7331-WG-7	IC-Analog Device	IC-AP7331-WG-7	2	42.480000000	84.960000000	3.170140849
ZXGD3009E6TA	IC-Analog Device	IC-ZXGD3009E6TA	1	42.480000000	42.480000000	1.585070425
APX809-26SAG-7	IC-Analog Device	IC-APX809-26SAG-7	1	42.480000000	42.480000000	1.585070425
SN74LVC1G17DBVR	IC-Digital Device	CMOS	2	22.968	45.936	1.714025307
LM3880QMF-1AB/NOPB	IC-Digital Device	CMOS	1	22.968	22.968	0.857012653
TCA9800DGKT	IC-Digital Device	CMOS	1	22.968	22.968	0.857012653
TXB0106PWR	IC-Digital Device	CMOS	1	22.968	22.968	0.857012653
SN74LVC1G74DCUR	IC-Digital Device	CMOS	1	22.968	22.968	0.857012653
SN74LVC1G32DBVR	IC-Digital Device	CMOS	1	22.968	22.968	0.857012653
ATTINY204-SSNR	IC-Microprocessor	CMOS	1	51.12	51.12	1.907457630

Sl No	Part Number	Category Description	Description	Quantity	Failure Rate	N × Failure Rate	Percent Contribution
2.70	MMZ1608B221CTAH0	Other	220 Ohms @ 100 MHz 1 Signal Line Ferrite Bead 0603 (1608 Metric) 500mA 250mOhm	11	0.720000000	7.920000000	0.295521605
2.71	MMZ1608B221CTAH0	Other	220 Ohms @ 100 MHz 1 Signal Line Ferrite Bead 0603 (1608 Metric) 500mA 250mOhm	1	0.720000000	0.720000000	0.026865600
3	*PCB MTX 808.3*						
3.1	CRCW0402100RFKED	Resistor	R-100E-SF-0402-AEC	4	0.369613131	1.478452524	0.055165993
3.2	CRCW0402100RFKED	Resistor	R-100E-SF-0402-AEC	10	0.369613131	3.696131311	0.137914982
3.3	CRCW0402100RFKED	Resistor	R-100E-SF-0402-AEC	4	0.306967716	1.227870863	0.045815955
3.4	RMCF0402FT10R0	Resistor	R-10E-SJ-0402-AEC	2	0.306967716	0.613935431	0.022907978
3.5	RMCF0402FT10K0	Resistor	R-10K-SF-0402-AEC	10	0.306967716	3.069677157	0.114539889
3.6	RMCF0402JT1K00	Resistor	R-1K-SJ-0402-AEC	1	0.306967716	0.306967716	0.011453989
3.7	CRCW04022K20FKED	Resistor	R-2.2K-SJ-0402-AEC	2	0.333379761	0.666759522	0.024879021
3.8	RMC0402FT22R0	Resistor	R-22E-SJ-0402-AEC	8	0.306967716	2.455741725	0.091631911
3.9	RMC0402FT33R0	Resistor	R-33E-SF-0402-AEC	2	0.306967716	0.613935431	0.022907978
3.10	RMCF0402FT4R70	Resistor	R-4.7E-SF-0402-AEC	8	0.333379761	2.667038089	0.099516083
3.11	RMCF0402FT4K70	Resistor	R-4.7K-SJ-0402-AEC	1	0.306967716	0.306967716	0.011453989
3.12	RMCF0402FT499R	Resistor	R-499E-SF-0402-AEC	8	0.313367775	2.506942203	0.093542372
3.13	RMCF0603FT100R	Resistor	R-100E-SF-0603-AEC	18	0.304632966	5.483393382	0.204603688
3.14	RMCF0603FT100R	Resistor	R-100E-SF-0603-AEC	1	0.316748366	0.316748366	0.011818938
3.15	RMCF0603FT100R	Resistor	R-100E-SF-0603-AEC	3	0.342443836	1.027331507	0.038333164
3.16	RMCF0603FT100K	Resistor	R-100K-SF-0603-AEC	4	0.304632966	1.218531863	0.045467486

Part Number	Category Description	Description	Quantity	Failure Rate	N × Failure Rate	Percent Contribution
RMCF0603FT10K0	Resistor	R-10K-SF-0603-AEC	18	0.304632966	5.483393382	0.204603688
RMCF0603FT10K0	Resistor	R-10K-SF-0603-AEC	1	0.308619048	0.308619048	0.011515606
RMCF0603FT10K0	Resistor	R-10K-SF-0603-AEC	1	0.310631605	0.310631605	0.011590701
RMCF0603FT10K0	Resistor	R-10K-SF-0603-AEC	1	0.320892976	0.320892976	0.011973587
RMCF0603FT130K	Resistor	R-130K-SF-0603-AEC	1	0.304632966	0.304632966	0.011366872
CRCW0603150KFKEA	Resistor	R-150K-SJ-0603-AEC	1	0.304632966	0.304632966	0.011366872
RMCF0603FT15K0	Resistor	R-15K-SF-0603-AEC	4	0.304632966	1.218531863	0.045467486
CRCW06031K30FKEA	Resistor	R-1.3K-SF-0603-AEC	1	0.505782968	0.505782968	0.018872449
RMCF0603FT1K00	Resistor	R-1K-SF-0603-AEC	5	0.304632966	1.523164828	0.056834358
RMCF0603FT1K00	Resistor	R-1K-SF-0603-AEC	1	0.342443836	0.342443836	0.012777721
RMCF0603FT1K00	Resistor	R-1K-SF-0603-AEC	1	0.38998476	0.389984760	0.014551632
RMCF0603FT1K00	Resistor	R-1K-SF-0603-AEC	4	0.505782968	2.023131873	0.075489795
RMCF0603FT1M00	Resistor	R-1M-SF-0603-AEC	2	0.304632966	0.609265931	0.022733743
ERJ-3EKF2051V	Resistor	R-2.05K-SF-0603-AEC	1	0.461788808	0.461788808	0.017230880
RMCF0603FT2K10	Resistor	R-2.1K-SF-0603-AEC	1	0.320892976	0.320892976	0.011973587
RMCF0603FT2K20	Resistor	R-2.2K-SF-0603	1	0.304632966	0.304632966	0.011366872
RMCF0603FT2K20	Resistor	R-2.2K-SF-0603	1	0.308619048	0.308619048	0.011515606
RMCF0603FT2K20	Resistor	R-2.2K-SF-0603	8	0.320892976	2.567143811	0.095788694
RMCF0603FT220R	Resistor	R-220E-SF-0603	1	0.304632966	0.304632966	0.011366872
RMCF0603FT220R	Resistor	R-220E-SF-0603	1	0.38998476	0.389984760	0.014551632
CRCW060322R0FKEAHP	Resistor	R-22E-CRCW -0603-AS-HP-e3	5	0.312669493	1.563347465	0.058333706
RMCF0603FT22R0	Resistor	R-22E-SF-0603-AEC	10	0.304632966	3.046329657	0.113668716

Sl No	Part Number	Category Description	Description	Quantity	Failure Rate	N × Failure Rate	Percent Contribution
3.39	RMCF0603FT22K0	Resistor	R-22K-SF-0603-AEC	2	0.304632966	0.609265931	0.022733743
3.40	RMCF0603FT3K30	Resistor	R-3.3K-SF-0603-AEC	1	0.342443836	0.342443836	0.012777721
3.41	RMCF0603FT3K30	Resistor	R-3.3K-SF-0603-AEC	1	0.576	0.576000000	0.021492480
3.42	RMCF0603FT3K30	Resistor	R-3.3K-SF-0603-AEC	2	0.304632966	0.609265931	0.022733743
3.43	RMCF0603FT3K30	Resistor	R-3.3K-SF-0603-AEC	5	0.312657287	1.563286435	0.058331429
3.44	RMCF0603FT33K0	Resistor	R-33K-SF-0603-AEC	5	0.304632966	1.523164828	0.056834358
3.45	RMCF0603FT4K70	Resistor	R-4.7K-SF-0603-AEC	2	0.304632966	0.609265931	0.022733743
3.46	RMCF0603FT4K70	Resistor	R-4.7K-SF-0603-AEC	5	0.308619048	1.543095238	0.057578028
3.47	RMCF0603FT4K70	Resistor	R-4.7K-SF-0603-AEC	1	0.320892976	0.320892976	0.011973587
3.48	RMCF0603FT470R	Resistor	R-470E-SF-0603-AEC	1	0.304632966	0.304632966	0.011366872
3.49	RMCF0603FT470R	Resistor	R-470E-SF-0603-AEC	2	0.38998476	0.779969519	0.029103263
3.50	CRCW06035O0RDFKEA	Resistor	R-50E-SF-0603-AEC	1	0.320892976	0.320892976	0.011973587
3.51	MCR03EZPFX5100	Resistor	R-510E-SJ-0603-AEC	1	0.304632966	0.304632966	0.011366872
3.52	RMCF0603JT560R	Resistor	R-560E-SJ-0603-AEC	1	0.342443836	0.342443836	0.012777721
3.53	RMCF0603FT56K0	Resistor	R-56K-SF-0603-AEC	1	0.342443836	0.342443836	0.012777721
3.54	RMCF0603FT56K0	Resistor	R-56K-SF-0603-AEC	1	0.342443836	0.342443836	0.012777721
3.55	RMCF0603FT75R0	Resistor	R-75E-SF-0603-AEC	4	0.342443836	1.369775343	0.051110885
3.56	RL1220S-R50-F	Resistor	R-0.5-RL12S-0805	1	0.312669493	0.312669493	0.011666741
3.57	CRCW0805100RFKEAH	Resistor	R-100E-SJ-0805 AS-CRCW-HP-e3-AEC	2	0.333655045	0.667310091	0.024899564
3.58	CRCW080510R0FKEAHP	Resistor	R-10E-SJ-0805 AS-CRCW-HP-e3-AEC	1	0.3014812	0.301481200	0.011249269
3.59	CRCW080510K0FKEA	Resistor	R-10K-SF-0805-AEC	1	0.303841949	0.303841949	0.011337356
3.60	RL1220S-2R2-F	Resistor	R-2E2-RL12S-0805	2	0.301874559	0.603749119	0.022527892

	Part Number	Category Description	Description	Quantity	Failure Rate	N × Failure Rate	Percent Contribution
	CRCW1206100RJNEAH	Resistor	R-100E -SJ-0.75W-1206-AS-HP-e3	1	0.32228653	0.322286530	0.012025585
	CRCW1206100RJNEAH	Resistor	R-100E -SJ-0.75W-1206-AS-HP-e3	1	0.463794235	0.463794235	0.017305709
	CAP-X5RS-0.22uF-16K-0402	Capacitor	GRM155R61C224KA12D	8	0.215913143	1.727305146	0.064451514
	CAP-X7RS-0.1uF-16K-0402-AEC	Capacitor	GRT155R71C104KE01D	6	0.215913143	1.295478859	0.048338635
	CAP-X7RS-0.1uF-16K-0402-AEC	Capacitor	GRT155R71C104KE01D	8	0.215913143	1.727305146	0.064451514
	CAP-X7RS-0.1uF-16K-0402-AEC	Capacitor	GRT155R71C104KE01D	8	0.333786381	2.670291052	0.099637462
	CAP-COG5-100pF-50K-0603	Capacitor	KGM15ACG1H101JT	1	0.107431261	0.107431261	0.004008619
	CAP-COG5-12pF-50K-0603	Capacitor	C0603C120J5GAC7867	1	0.12149234	0.121492340	0.004533284
	CAP-COG5-33pF-100V-0603	Capacitor	C0603C330J1GAC7867	2	0.10611795	0.212235900	0.007919229
	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	UMK107BJ104KAHT	2	0.107431261	0.214862522	0.008017237
	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	UMK107BJ104KAHT	1	0.12149234	0.121492340	0.004533284
	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	UMK107BJ104KAHT	2	0.247955975	0.495911951	0.018504128
	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	UMK107BJ104KAHT	8	0.107431261	0.859450089	0.032068948
	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	UMK107BJ104KAHT	22	0.12149234	2.672831471	0.099732253

Sl No	Part Number	Category Description	Description	Quantity	Failure Rate	N × Failure Rate	Percent Contribution
3.75	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	UMK107BJ104KAHT	14	0.13966563	1.955318826	0.072959464
3.76	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	UMK107BJ104KAHT	2	0.247955975	0.495911951	0.018504128
3.77	CAP-X5RS-0.22uF-50V-0603-AEC	Capacitor	GCM188R71H224KA64D	1	0.12149234	0.121492340	0.004533284
3.78	CAP-X5RS-10uF-16K-0603-AEC	Capacitor	GRT188R61C106KE13J	6	0.215913143	1.295478859	0.048338635
3.79	CAP-X5RS-2.2uF-50V-0603-AEC	Capacitor	GRT188R61H225KE13D	1	0.247955975	0.247955975	0.009252064
3.80	CAP-X5RS-2.2uF-50V-0603-AEC	Capacitor	GRT188R61H225KE13D	1	0.12149234	0.121492340	0.004533284
3.81	CAP-X7RS-1KpF-50V-0603	Capacitor	06035C102KAT2A	1	0.12149234	0.121492340	0.004533284
3.82	CAP-X7RS-1KpF-50V-0603	Capacitor	06035C102KAT2A	1	0.13966563	0.139665630	0.005211390
3.83	CAP-X7RS-1uF-50K-0603	Capacitor	UMK107A871O5KA-T	2	0.247955975	0.495911951	0.018504128
3.84	CAP-X7RS-22KpF-50V-0603-AEC	Capacitor	06035C223K4T2A	1	0.13966563	0.139665630	0.005211390
3.85	CAP-FILTER-0.1uF-25V-0805-NFM21PC104R1E3D	Capacitor	NFM21PC104R1E3D	1	0.159246165	0.159246165	0.005942005
3.86	CAP-FILTER-0.1uF-25V-0805-NFM21PC104R1E3D	Capacitor	NFM21PC104R1E3D	1	0.66331581	0.663315810	0.024750524
3.87	CAP-X5RS-10uF-25V-0805-AEC	Capacitor	TMK212BBJ106KGHT	1	0.124518116	0.124518116	0.004646185

	Part Number	Category Description	Description	Quantity	Failure Rate	N × Failure Rate	Percent Contribution
	CAP-X5RS-10uF-25V-0805-AEC	Capacitor	TMK212BBJ106KGHT	1	0.159246165	0.159246165	0.005942005
	CAP-X5RS-10uF-25V-0805-AEC	Capacitor	TMK212BBJ106KGHT	5	0.210450656	1.052253280	0.039263078
	CAP-X5RS-2.2uF-16V-0805-AEC	Capacitor	GRT21BR61C226ME13L	1	0.333786381	0.333786381	0.012454683
	CAP-X5RS-4.7uF-16V-0805-AEC	Capacitor	EMK212ABJ475KGHT	1	0.215913143	0.215913143	0.008056439
	CAP-X5RS-4.7uF-16V-0805-AEC	Capacitor	EMK212ABJ475KGHT	1	0.147010088	0.147010088	0.005485437
	CAP-X5RS-4.7uF-16V-0805-AEC	Capacitor	EMK212ABJ475KGHT	4	0.215913143	0.863652573	0.032225757
	CAP-X5RS-4.7uF-16V-0805-AEC	Capacitor	EMK212ABJ475KGHT	7	0.333786381	2.336504670	0.087182779
	CAP-X5RS-47uF-10K-0805	Capacitor	GRM21BR61A476ME15L	1	0.358615654	0.358615654	0.013381146
	CAP-X7RS-0.22uF-100K-0805	Capacitor	UMK212B7224KG-T	1	0.10611795	0.106117950	0.003959615
	CAP-X7RS-10nF-100V-0805	Capacitor	C0805C103K1RACTU	4	0.10611795	0.424471800	0.015838458
	CAP-X5RS-47uF-16V-1206	Capacitor	GRM31CR61C476ME44K	6	0.333786381	2.002718289	0.074728096
	CAP-X6S-10uF-25K-1206-AEC	Capacitor	GRT31CC81E106KE01L	2	0.66331581	1.326631621	0.049501049
)	CAP-X7RS-1000pF-2KV-1206	Capacitor	1206GC102KAT2A	1	0.093318298	0.093318298	0.003482017

Sl No	Part Number	Category Description	Description	Quantity	Failure Rate	N × Failure Rate	Percent Contribution
3.101	CAP-X7RS-1000pF-2KV-1206	Capacitor	1206GC102KAT2A	1	0.094608868	0.094608868	0.003530172
3.102	CAP-ELE-FC-330uF-16V	Capacitor	EEU-FC1C331	2	3.351373565	6.702747130	0.250101842
3.103	CAP-ELEYXJ-220uF-25V	Capacitor	25YXJ220M6	3	5.009671185	15.029013555	0.560782601
3.104	PJ-102AH	Connector	CON-DCJ-PJ-102AH	1	47.520000000	47.520000000	1.773129627
3.105	2309411-1	Connector	CON-DDR4-SODIMM-SOCKET-260 PIN 2309411-1	1	74.880000000	74.880000000	2.794022443
3.106	XF3M-3115-1B	Connector	CON-FFC-31P-RA-XF3M-3115-1B	1	22.320000000	22.320000000	0.832833613
3.107	SS-53000-001	Connector	CON-HDMI-19P-RA-SS-53000-001	1	5.472000000	5.472000000	0.204178563
3.108	DF1BZ-2P-2.5DSA	Connector	CON-HDR-2P-MST-DF1BZ-H10982	1	31.680000000	31.680000000	1.182086418
3.109	DF1BZ-3P-2.5DSA	Connector	CON-HDR-3P-MST-DF1BZ-H10983	2	47.520000000	95.040000000	3.546259255
3.110	10128798-005RLF	Connector	CON-M.2-75P-F-10128798-005RLF	1	21.600000000	21.600000000	0.805968012
3.111	615008137421	Connector	CON-RJ45-RA-615008137421	1	3.456000000	3.456000000	0.128954882
3.112	61400416021	Connector	CON-USB-4P-TYPE A-MRA-61400416021	1	1.152000000	1.152000000	0.042984961
3.113	CH28-2032LF	Connector	E-CELL-HOLDER- CH28-2032LF	1	31.680000000	31.680000000	1.182086418
3.114	ICD15S13E4GX00LF	Connector	DSUB-15-F-RA-VGA	1	4.320000000	4.320000000	0.161193602
3.115	1N4148WQ-7-F	Diode	D-1N 4148WQ-100V-SOD123	10	0.468642561	4.686425607	0.174866164
3.116	1N4148W5F-7	Diode	D-1N4148W5F-7-SOD323	1	0.477791135	0.477791135	0.017827980
3.117	BAS70W-05-7-F	Diode	D-BAS70W-05-7-F	1	0.652177352	0.652177352	0.024334911
3.118	CGRM4007-G	Diode	D-CGRM4007 -SOD123	2	0.739647470	1.479294940	0.055197426
3.119	PNE20020ERX	Diode	D-PNE20020ERX	8	0.425248490	3.401987920	0.126939511
3.120	AQ3522-01FTG	Diode	D-TVS-AQ3522-01FTG-5V	4	4.356959210	17.427836841	0.650290695

Part Number	Category Description	Description	Quantity	Failure Rate	N × Failure Rate	Percent Contribution
CDSOD323-T03	Diode	D-TVS-CDSOD323-T03-UNI	2	4.312959749	8.625919498	0.321861815
RCLAMP0524J.TCT	Diode	D-TVS-RCLAMP0524J.TCT	3	4.331761989	12.995285968	0.484897445
SD05-7	Diode	D-TVS-SD05-7-SOD323 -UNI	5	4.311917577	21.559587883	0.804460102
SD12CT1G0SCT	Diode	D-TVS-SD12CT1G0SCT	1	4.331761989	4.331761989	0.161632482
SMAJ15A	Diode	D-TVS-SMAJ15ALFCT	1	4.314332751	4.314332751	0.160982139
SMAJ15CA	Diode	D-TVS-SMAJ15CALF	4	4.314332751	17.257331005	0.643928554
SMBJ20A	Diode	D-TVS-SMBJ20A	1	4.433433699	4.433433699	0.165426192
SMF5.0A-TP	Diode	D-TVS-SMF5.0A-TP	2	4.312469849	8.624939697	0.321825255
SP0504SHTG	Diode	D-TVS-SP0504SHTG	3	4.433433699	13.300301097	0.496278576
BZX3845O-C1V8-QF	Diode	D-ZNR-1.8V-300MW-BZX3845O-Q-SOD323	1	2.200579006	2.200579006	0.082110939
SMAZ5V1-TP	Diode	D-ZNR-5.1V-SMAZ5V1-TP	1	2.254031770	2.254031770	0.084105440
DMN3042L-7	Transistor	TR-DMN3042L-7	6	10.41123832	62.46742994	2.330868072
DMP2305UDICT	Transistor	TR-DMP2305UDICT	1	8.854989353	8.854989353	0.330409175
FDS4435BZCT	Transistor	TR-FDS4435BZCT	1	8.211638666	8.211638666	0.306403615
FDS6375	Transistor	TR-FDS6375	1	8.211638666	8.211638666	0.306403615
FMMT618TA	Transistor	TR-FMMT618TA	4	3.092749721	12.37099888	0.461603212
MMBT3904	Transistor	TR-MMBT3904	5	1.207716794	6.038583972	0.225319700
MV5439A	Opto-Electronic Device	LED-5mm-BI COLOUR-MV5439A	1	1.8	1.8	0.067164001
150080VS75000	Opto-Electronic Device	LED-GREEN-0805 - 150080VS75000	6	1.8	10.8	0.402984006
CT2184LPST	Switch	SW-DIP-4W- SMD-CT2184LPST	1	26.21092729	26.21092729	0.978017082



Sl No	Part Number	Category Description	Description	Quantity	Failure Rate	N × Failure Rate	Percent Contribution
3.141	TL58XF160Q	Switch	SW-TACT-TL58XF160Q	1	7.676898809	7.676898809	0.286450689
3.142	830000335	Crystal	XTAL 7.372 MHz HC49S	1	22.32	22.32	0.832833613
3.143	ECS-327MVATX-7-CN-TR	Crystal	XTAL-OSC-32.768KHZ-ECS	1	23.04	23.04	0.859699213
3.144	AP2138N-1.8TRG1	IC-Analog Device	IC-AP2138N-1.8TRG1	1	42.480000000	42.480000000	1.585070425
3.145	DRV8833PW	IC-Analog Device	IC-DRV8833PW	1	42.480000000	42.480000000	1.585070425
3.146	MCP3221A5T-I/OTCT	IC-Analog Device	IC-MCP3221A5T-I/OTCT	1	42.480000000	42.480000000	1.585070425
3.147	TLV803ED29DBZR	IC-Analog Device	IC-TLV803ED29DBZR	2	42.480000000	84.960000000	3.170140849
3.148	TPS2042BDR	IC-Analog Device	IC-TPS2042BDR	1	42.480000000	42.480000000	1.585070425
3.149	TPS22917DBVR	IC-Analog Device	IC-TPS22917DBVR	2	42.480000000	84.960000000	3.170140849
3.150	TPS7A7401DSDR	IC-Analog Device	IC-TPS7A7401DSDR	1	42.480000000	42.480000000	1.585070425
3.151	74LVC1G14GVQ100,1	IC-Digital Device	CMOS	2	22.968	45.936	1.714025307
3.152	74LVC1G17DBVR	IC-Digital Device	CMOS	2	22.968	45.936	1.714025307
3.153	MCP9808T-E/MS	IC-Digital Device	CMOS	1	22.968	22.968	0.857012653
3.154	PCA9617ADPJ	IC-Digital Device	CMOS	1	22.968	22.968	0.857012653
3.155	PCF2129T-2,518	IC-Digital Device	CMOS	1	22.968	22.968	0.857012653
3.156	MAX33071EASA+	IC-Digital Device	CMOS	2	22.968	45.936	1.714025307
3.157	SN74LVC1G74DCU	IC-Digital Device	CMOS	1	22.968	22.968	0.857012653
3.158	TXB0108PWR	IC-Digital Device	CMOS	2	22.968	45.936	1.714025307
3.159	AT24C02DSSHM-T	IC-Memory	ROM	1	13.68	13.68	0.510446408
3.160	ATMEGA88PA-AN	IC-Microprocessor	CMOS	1	51.12	51.12	1.907457630
3.161	0685T2000-01	Miscellaneous Devices	FUSE 2A SLOW BLOW/0685T2000-01/C1T2	1	2.880000000	2.880000000	0.107462402

Part Number	Category Description	Description	Quantity	Failure Rate	N × Failure Rate	Percent Contribution
SF-1206S100-2	Miscellaneous Devices	FUSE-SLOW-1A-SF-1206S/SF-1206S100-2	1	2.880000000	2.880000000	0.107462402
CR2032	Miscellaneous Devices	COIN CELL-3V	1	180.000000000	180.000000000	6.716400104
742792096	Other	< 0.5A	6	0.720000000	4.320000000	0.161193602
742792022	Other	< 0.5A	1	0.720000000	0.720000000	0.026865600
MMZ1608B221CTAH0	Other	< 0.2A	5	0.720000000	3.600000000	0.134328002
SM51589PEL	Other	1Volt, < 10 mA	1	21.600000000	21.600000000	0.805968012
PCB MTX 809.1						
RMCF0603FT33K0	Resistor	R-33K-SF-0603-AEC	2	0.320892976	0.641785953	0.023947174
RMCF0603FT10K0	Resistor	R-10K-SF-0603-AEC	3	0.308619048	0.925857143	0.034546817
CRCW06031K50FKEA	Resistor	R-1.5K-SF-0603-AEC	1	0.304632966	0.304632966	0.011366872
CRCW060311K0FKEA	Resistor	R-11K-SF-0603-AEC	1	0.312657287	0.312657287	0.011666286
RMCF0603FT2K20	Resistor	R-2.2K-SF-0603-AEC	1	0.304632966	0.304632966	0.011366872
KGM15ACG1H101J	Capacitor	CAP-X7RS-100pF-50K-0603	1	0.06074617	0.060746170	0.002266642
KGM15ACG1H101J	Capacitor	CAP-X7RS-100pF-50K-0603	1	0.069832815	0.069832815	0.002605695
UMK107BJ104KAHT	Capacitor	CAP-X7RS-0.1uF-50K-0603-AEC	4	0.123977988	0.495911951	0.018504128
GRT31CC81E106KE01L	Capacitor	CAP-X6S-10uF-25K-1206-AEC	6	0.66331581	3.979894862	0.148503146
EMK316ABJ226KL-T	Capacitor	CAP-X7RS-22uF-16K-1206	3	0.333786381	1.001359144	0.037364048
EMK316ABJ226KL-T	Capacitor	CAP-X7RS-22uF-16K-1206	3	0.215913143	0.647739430	0.024169318
P9102-40-12-1 (40X1)	Connector	CON BERG 4P MRA -2.54MM	1	1.152000000	1.152000000	0.042984961
P9102-40-12-1 (40X1)	Connector	CON BERG 6P MRA - 2.54MM	1	1.728000000	1.728000000	0.064477441
SMAJ15ALFCT	Diode	D-SMAJ15A SMA	1	4.306718105	4.306718105	0.160698011

Sl No	Part Number	Category Description	Description	Quantity	Failure Rate	N × Failure Rate	Percent Contribution
4.15	TPS566247 DRLR	IC-Analog Device	IC-TPS566247 DRLR	2	42.480000000	84.960000000	3.170140849
4.16	0685T3000-01	Miscellaneous Devices	FUSE SLOW -C1T-3A-1206	1	2.880000000	2.880000000	0.107462402
4.17	ACM1211-102-2PL-TL01	Other	Max 1 A current	1	0.720000000	0.720000000	0.026865600
4.18	DD1217AS-H-4R7N=P3	Other	max 3 A	2	6.480000000	12.960000000	0.483580807

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(30 Pages)

Annexure- III

Telcordia SR-332,Issue 4

PI FACTORS REPORT

(Temperature 40 ℃)



TELCORDIA SR-332 PI-FACTORS REPORT

Name: 5M ANPR Camera Model No. : K-ANPR-GS-5M
Failure Rate (in FITS): 2680.0071
MTBF: 373133.3391

Name	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
1	PCB MTX 581.5	Unit					2680.0071
1.1	RMCF0603FT22K0	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	0.304632966
1.2	CRCW06031K20FKEA	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	0.304632966
1.3	RMCF0603FT2K20	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	0.304632966
1.4	RMCF0603FT220R	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	0.304632966
1.5	3362P-501LF	Resistor(Variable)	NON-WIREWOUND,Film	1	Mean Generic Steady State Failure rate = 7.3, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.523404861825561, Environment Factor =1.2	33.5741147	33.5741147
1.6	GRT188R61C475KE13J	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.299879365558732, Environment Factor =1.2	0.215913143	0.215913143
1.7	GRT188R61C475KE13J	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.463592196526344, Environment Factor =1.2	0.333786381	0.333786381

Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
UMK107BJ104KAHT	Capacitor	Fixed, Ceramic	2	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.2	0.12149234	0.242984679
AP2138N-3.3TRG1	IC-Analog Device	Voltage regulator	1	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	42.480000000	42.480000000
MCP6051T-E/OT	IC-Analog Device	Op-amp	1	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	42.480000000	42.480000000
SFH5711-2/3-Z	IC-Analog Device	Light sensor	1	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	42.480000000	42.480000000
PCB MTX 744.6						
RMCF0402FT10RD	Resistor	FILM (Carbon, Oxide, Metal)	10	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.532930061904395, Environment Factor =1.2	0.306967716	3.069677157
RMCF0402JT22R0	Resistor	FILM (Carbon, Oxide, Metal)	3	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.532930061904395, Environment Factor =1.2	0.306967716	0.920903147
RMCF0402FT33R0	Resistor	FILM (Carbon, Oxide, Metal)	5	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.532930061904395, Environment Factor =1.2	0.306967716	1.534838578
CRCW0402100RFKED	Resistor	FILM (Carbon, Oxide, Metal)	16	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.532930061904395, Environment Factor =1.2	0.306967716	4.911483451
RMCF0402JT1K00	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.532930061904395, Environment Factor =1.2	0.306967716	0.306967716

Name	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
2.6	RMCF0402JT1K00	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.544041276693325, Environment Factor =1.2	0.313367775	0.313367775
2.7	RMCF0402JT1K00	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.566963519142878, Environment Factor =1.2	0.326570987	0.326570987
2.8	RMCF0402JT1K00	Resistor	FILM (Carbon, Oxide, Metal)	2	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.641689463741396, Environment Factor =1.2	0.369613131	0.739226262
2.9	RMCF0402FT1K80	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.544041276693325, Environment Factor =1.2	0.313367775	0.313367775
2.10	RMCF0603FT2K20	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	0.304632966
2.11	RMCF0603FT3K30	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	0.304632966
2.12	CRCW0402100KFKED	Resistor	FILM (Carbon, Oxide, Metal)	5	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.532930061904395, Environment Factor =1.2	0.306967716	1.534838578
2.13	RMCF0603FT12K0	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	0.304632966
2.14	RMCF0402FT14K0	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.532930061904395, Environment Factor =1.2	0.306967716	0.306967716

Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
CRCW0402100KFKED	Resistor	FILM (Carbon, Oxide, Metal)	3	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.532930061904395, Environment Factor =1.2	0.306967716	0.920903147
RMCF0402FT47R0	Resistor	FILM (Carbon, Oxide, Metal)	2	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.532930061904395, Environment Factor =1.2	0.306967716	0.613935431
CRCW060347R0FKEA	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	0.304632966
RMCF0402FT4K70	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.532930061904395, Environment Factor =1.2	0.306967716	0.306967716
RMCF0402FT4K70	Resistor	FILM (Carbon, Oxide, Metal)	2	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.544041276693325, Environment Factor =1.2	0.313367775	0.626735551
RMCF0603FT8K20	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	0.304632966
RMCF0603FT10K0	Resistor	FILM (Carbon, Oxide, Metal)	5	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	1.523164828
RMCF0603FT1K00TR	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632965	0.304632966
RMCF0603FT47K0	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	0.304632966

Name	Part Number	Category Description	Device Type	Quantity	PI Factors All	Failure Rate	N × Failure Rate
2.24	06035C102KAT2A	Capacitor	Fixed, Ceramic	3	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.140886595422585, Environment Factor =1.2	0.101438349	0.304315046
2.25	06035C102KAT2A	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.2	0.12149234	0.121492340
2.26	GRM155R61A475MEAAD	Capacitor	Fixed, Ceramic	8	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.498077296572962, Environment Factor =1.2	0.358615654	2.868925228
2.27	GRM155R61A475MEAAD	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.422739131745963, Environment Factor =1.2	0.304372175	0.304372175
2.28	UMK107AB7105KA-T	Capacitor	Fixed, Ceramic	3	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.140886595422585, Environment Factor =1.2	0.101438349	0.304315046
2.29	UMK107AB7105KA-T	Capacitor	Fixed, Ceramic	2	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.149210084949725, Environment Factor =1.2	0.107431261	0.214862522
2.30	UMK107AB7105KA-T	Capacitor	Fixed, Ceramic	3	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.163294493454477, Environment Factor =1.2	0.117572035	0.352716106
2.31	GRT188R61C106KE13J	Capacitor	Fixed, Ceramic	11	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.299879365558732, Environment Factor =1.2	0.215913143	2.375044575
2.32	GRM188R61A226ME15D	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.422739131745963, Environment Factor =1.2	0.304372175	0.304372175

	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
3	GRM188R61A226ME15D	Capacitor	Fixed, Ceramic	2	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.498077296572962, Environment Factor =1.2	0.358615654	0.717231307
4	TMK212BBJ106KGHT	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.202098515494567, Environment Factor =1.2	0.145510931	0.145510931
5	TMK212BBJ106KGHT	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.498077296572962, Environment Factor =1.2	0.358615654	0.358615654
6	GRM13CR61A476ME15L	Capacitor	Fixed, Ceramic	2	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.26928095555245, Environment Factor =1.2	0.193882288	0.387764576
7	GRM13CR61A476ME15L	Capacitor	Fixed, Ceramic	2	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.422739131745963, Environment Factor =1.2	0.304372175	0.608744350
38	GRM13CR61A476ME15L	Capacitor	Fixed, Ceramic	14	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.498077296572962, Environment Factor =1.2	0.358615654	5.020619149
39	GRT155R71C104KE01J	Capacitor	Fixed, Ceramic	30	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.170652662780135, Environment Factor =1.2	0.122869917	3.686097516
40	GRT155R71C104KE01J	Capacitor	Fixed, Ceramic	4	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.394553710371601, Environment Factor =1.2	0.147010088	0.588040353
41	GRT155R71C104KE01J	Capacitor	Fixed, Ceramic	13	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.465333930974313, Environment Factor =1.2	0.194878485	2.533420309

Name	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
2.42	GRT155R71C104KE01J	Capacitor	Fixed, Ceramic	23	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.299879365558732, Environment Factor =1.2	0.215913143	4.966002294
2.43	06035C331KAT2A	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.151677306259232, Environment Factor =1.2	0.109207661	0.109207661
2.44	UMK107BJ104KAHT	Capacitor	Fixed, Ceramic	2	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.149210084949725, Environment Factor =1.2	0.107431261	0.214862522
2.45	UMK107BJ104KAHT	Capacitor	Fixed, Ceramic	5	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.2	0.12149234	0.607461698
2.46	GRT188R61C475KE13J	Capacitor	Fixed, Ceramic	19	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.355226380924952, Environment Factor =1.2	0.122869917	2.334528427
2.47	GRT188R61C475KE13J	Capacitor	Fixed, Ceramic	3	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.394553710371601, Environment Factor =1.2	0.147010088	0.441030265
2.48	GRT188R61C475KE13J	Capacitor	Fixed, Ceramic	6	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.270664562915082, Environment Factor =1.2	0.194878485	1.169270912
2.49	GRT188R61C475KE13J	Capacitor	Fixed, Ceramic	2	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.299879365558732, Environment Factor =1.2	0.215913143	0.431826286
2.50	EEU-FM1A471BJ	Capacitor	Fixed, Aluminium, Electrolytic	2	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.664978878822402, Environment Factor =1.2	7.181771891	14.36354378

	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
1	FH55-31S-0.5SH	Connector	Multi-Pin	1	Mean Generic Steady State Failure rate = 1.24, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor =1.2	8.928000000	8.928000000
2	M50-3630442	Connector	Multi-Pin	1	Mean Generic Steady State Failure rate = 0.16, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor =1.2	1.152000000	1.152000000
3	1N4148WSF-7	Diode	Silicon ,General Purpose	2	Mean Generic Steady State Failure rate = 0.33, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.196531347067796, Environment Factor =1.2	0.466958481	0.933916961
4	SI2329DS-T1-GE3	Transistor	FIELD EFFECT,Silicon, Switch	3	Mean Generic Steady State Failure rate = 3.44, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.250073601112094, Environment Factor = 1.2	7.641183484	22.923550 45
5	DMN3042L-7	Transistor	FIELD EFFECT,Silicon, Switch	3	Mean Generic Steady State Failure rate = 3.44, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.120995732814878, Environment Factor = 1.2	7.641183484	22.923550 45
6	MMBT3904L	Transistor	SILICON,NPN/PNP, <0.6 W	1	Mean Generic Steady State Failure rate = 1.77, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.178708373509331, Environment Factor = 1.2	0.8878232	0.8878232
7	SIT1602BI-21-18E-74.250000	Crystal	CRYSTAL OSCILLATOR, Quartz Controlled	1	Mean Generic Steady State Failure rate = 3.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	23.04	23.04
8	IMX565AAQJ-C	IC-Analog Device	IMAGE SENSOR ANALOG	1	Mean Generic Steady State Failure rate = 13.9978308692655, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	100.7843822 59	100.7843822259
9	LD39200DPUR	IC-Analog Device	ANALOG	1	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	42.480000000	42.480000000

Name	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
2.60	AP7331-WG-7	IC-Analog Device	ANALOG	2	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	42.480000000	84.960000000
2.61	ZXGD3009E6TA	IC-Analog Device	ANALOG	1	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	42.480000000	42.480000000
2.62	APX809-26SAG-7	IC-Analog Device	ANALOG	1	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	42.480000000	42.480000000
2.63	SN74LVC1G17DBVR	IC-Digital Device	IC-SN74LVC1G17DBVR	2	Mean Generic Steady State Failure rate = 2.19, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	22.968	45.936
2.64	LM3880QMF-1A8/NOPB	IC-Digital Device	IC-LM3880QMF-1A8/NOPB	1	Mean Generic Steady State Failure rate = 2.19, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	22.968	22.968
2.65	TCA9800DGKT	IC-Digital Device	IC-TCA9800DGKT	1	Mean Generic Steady State Failure rate = 2.19, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	22.968	22.968
2.66	TXB0106PWR	IC-Digital Device	IC-TXB0106PWR	1	Mean Generic Steady State Failure rate = 2.19, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	22.968	22.968
2.67	SN74LVC1G74DCUR	IC-Digital Device	IC-SN74LVC1G74DCUR	1	Mean Generic Steady State Failure rate = 2.19, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	22.968	22.968
2.68	SN74LVC1G32DBVR	IC-Digital Device	IC-SN74LVC1G32DBVR	1	Mean Generic Steady State Failure rate = 2.19, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	22.968	22.968

	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
9	ATTINY204-SSNR	IC-Microprocessor	IC-ATTINY204-SSNR	1	Mean Generic Steady State Failure rate = 7.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	51.12	51.12
0	MMZ1608B221CTAH0	Other	IND-FB-220E-MMZ1608B	11	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	0.720000000	7.920000000
1	MMZ1608B221CTAH0	Other	IND-FB-220E-MMZ1608B	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	0.720000000	0.720000000
3	*PCB MTX 808.3*						
.1	CRCW0402100RFKED	Resistor	FILM (Carbon, Oxide, Metal)	4	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.641689463741396, Environment Factor =1.2	0.369613131	1.478452524
.2	CRCW0402100RFKED	Resistor	FILM (Carbon, Oxide, Metal)	10	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.641689463741396, Environment Factor =1.2	0.369613131	3.696131311
.3	CRCW0402100RFKED	Resistor	FILM (Carbon, Oxide, Metal)	4	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.532930061904395, Environment Factor =1.2	0.306967716	1.227870863
.4	RMCF0402FT10R0	Resistor	FILM (Carbon, Oxide, Metal)	2	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.532930061904395, Environment Factor =1.2	0.306967716	0.613935431
1.5	RMCF0402FT10K0	Resistor	FILM (Carbon, Oxide, Metal)	10	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.532930061904395, Environment Factor =1.2	0.306967716	3.069677157
3.6	RMCF0402ZJT1K00	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.532930061904395, Environment Factor =1.2	0.306967716	0.306967716

Name	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
3.7	CRCW0402K20FKED	Resistor	FILM (Carbon, Oxide, Metal)	2	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.578784307439513, Environment Factor =1.2	0.333379761	0.666759522
3.8	RMC0402FT22R0	Resistor	FILM (Carbon, Oxide, Metal)	8	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.532930061904395, Environment Factor =1.2	0.306967716	2.455741725
3.9	RMC0402FT33R0	Resistor	FILM (Carbon, Oxide, Metal)	2	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.532930061904395, Environment Factor =1.2	0.306967716	0.613935431
3.10	RMCF0402FT4R70	Resistor	FILM (Carbon, Oxide, Metal)	8	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.578784307439513, Environment Factor =1.2	0.333379761	2.667038089
3.11	RMCF0402FT4K70	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.532930061904395, Environment Factor =1.2	0.306967716	0.306967716
3.12	RMCF0402FT499R	Resistor	FILM (Carbon, Oxide, Metal)	8	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.544041276693325, Environment Factor =1.2	0.313367775	2.506942203
3.13	RMCF0603FT100R	Resistor	FILM (Carbon, Oxide, Metal)	18	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	5.483393382
3.14	RMCF0603FT100R	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.549910357721601, Environment Factor =1.2	0.316748366	0.316748366
3.15	RMCF0603FT100R	Resistor	FILM (Carbon, Oxide, Metal)	3	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.594520547970194, Environment Factor =1.2	0.342443836	1.027331507

	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
6	RMCF0603FT100K	Resistor	FILM (Carbon, Oxide, Metal)	4	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	1.218531863
7	RMCF0603FT10K0	Resistor	FILM (Carbon, Oxide, Metal)	18	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	5.483393382
8	RMCF0603FT10K0	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.535796957667456, Environment Factor =1.2	0.308619048	0.308619048
9	RMCF0603FT10K0	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.539290981166802, Environment Factor =1.2	0.310631605	0.310631605
20	RMCF0603FT10K0	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.557105861812174, Environment Factor =1.2	0.320892976	0.320892976
21	RMCF0603FT130K	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	0.304632966
22	CRCW0603150KFKEA	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	0.304632966
23	RMCF0603FT15K0	Resistor	FILM (Carbon, Oxide, Metal)	4	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	1.218531863
24	CRCW06031K30FKEA	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.878095430920561, Environment Factor =1.2	0.505782968	0.505782968

Name	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
3.25	RMCF0603FT1K00	Resistor	FILM (Carbon, Oxide, Metal)	5	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	1.523164828
3.26	RMCF0603FT1K00	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.594520547970194, Environment Factor =1.2	0.342443836	0.342443836
3.27	RMCF0603FT1K00	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.677056874498165, Environment Factor =1.2	0.38998476	0.389984760
3.28	RMCF0603FT1K00	Resistor	FILM (Carbon, Oxide, Metal)	4	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.878095430920561, Environment Factor =1.2	0.505782968	2.023131873
3.29	RMCF0603FT1M00	Resistor	FILM (Carbon, Oxide, Metal)	2	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	0.609265931
3.30	ERJ-3EKF2051V	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.801716680290195, Environment Factor =1.2	0.461788808	0.461788808
3.31	RMCF0603FT2K10	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.557105861812174, Environment Factor =1.2	0.320892976	0.320892976
3.32	RMCF0603FT2K20	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	0.304632966
3.33	RMCF0603FT2K20	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.535796957667456, Environment Factor =1.2	0.308619048	0.308619048

	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
4	RMCF0603FT2K20	Resistor	FILM (Carbon, Oxide, Metal)	8	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.557105861812174, Environment Factor =1.2	0.320892976	2.567143811
5	RMCF0603FT220R	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	0.304632966
6	RMCF0603FT220R	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.677056874498165, Environment Factor =1.2	0.38998476	0.389984760
7	CRCW060322R0FKEAHP	Resistor	FILM (Carbon, Oxide, Metal)	5	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.542828980898458, Environment Factor =1.2	0.312669493	1.563347465
8	RMCF0603FT22R0	Resistor	FILM (Carbon, Oxide, Metal)	10	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	3.046329657
9	RMCF0603FT22K0	Resistor	FILM (Carbon, Oxide, Metal)	2	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	0.609265931
10	RMCF0603FT3K30	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.594520547970194, Environment Factor =1.2	0.342443836	0.342443836
41	RMCF0603FT3K30	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor =1.2	0.576	0.576000000
42	RMCF0603FT3K30	Resistor	FILM (Carbon, Oxide, Metal)	2	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	0.609265931

Name	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
3.43	RMCF0603FT3K30	Resistor	FILM (Carbon, Oxide, Metal)	5	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.542807789790324, Environment Factor =1.2	0.312657287	1.563286435
3.44	RMCF0603FT33K0	Resistor	FILM (Carbon, Oxide, Metal)	5	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	1.523164828
3.45	RMCF0603FT4K70	Resistor	FILM (Carbon, Oxide, Metal)	2	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	0.609265931
3.46	RMCF0603FT4K70	Resistor	FILM (Carbon, Oxide, Metal)	5	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.535796957667456, Environment Factor =1.2	0.308619048	1.543095238
3.47	RMCF0603FT4K70	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.557105861812174, Environment Factor =1.2	0.320892976	0.320892976
3.48	RMCF0603FT47OR	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	0.304632966
3.49	RMCF0603FT47OR	Resistor	FILM (Carbon, Oxide, Metal)	2	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.677056874498165, Environment Factor =1.2	0.38998476	0.779969519
3.50	CRCW06035ORORFKEA	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.557105861812174, Environment Factor =1.2	0.320892976	0.320892976
3.51	MCR03EZPFX5100	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor =1.2	0.304632966	0.304632966

	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
2	RMCF0603JT560R	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.594520547970194, Environment Factor =1.2	0.342443836	0.342443836
3	RMCF0603FT56K0	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.594520547970194, Environment Factor =1.2	0.342443836	0.342443836
4	RMCF0603FT56K0	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.594520547970194, Environment Factor =1.2	0.342443836	0.342443836
5	RMCF0603FT75R0	Resistor	FILM (Carbon, Oxide, Metal)	4	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.594520547970194, Environment Factor =1.2	0.342443836	1.369775343
6	RL1220S-R50-F	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.542828980898458, Environment Factor =1.2	0.312669493	0.312669493
7	CRCW0805100RFKEAH	Resistor	FILM (Carbon, Oxide, Metal)	2	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.579262231380782, Environment Factor =1.2	0.333655045	0.667310091
8	CRCW080510R0FKEAHP	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.523404861825561, Environment Factor =1.2	0.3014812	0.301481200
9	CRCW080510K0FKEA	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.527503383201685, Environment Factor =1.2	0.303841949	0.303841949
60	RL1220S-2R2-F	Resistor	FILM (Carbon, Oxide, Metal)	2	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.524087776599081, Environment Factor =1.2	0.301874559	0.603749119

Name	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
3.61	CRCW1206100RJNEAH	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.559525225381906, Environment Factor =1.2	0.32228653	0.322286530
3.62	CRCW1206100RJNEAH	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.805198324018071, Environment Factor =1.2	0.463794235	0.463794235
3.63	CAP-X5RS-0.22uF-16K-0402	Capacitor	Fixed, Ceramic	8	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.299879365558732, Environment Factor =1.2	0.215913143	1.727305146
3.64	CAP-X7RS-0.1uF-16K-0402-AEC	Capacitor	Fixed, Ceramic	6	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.299879365558732, Environment Factor =1.2	0.215913143	1.295478859
3.65	CAP-X7RS-0.1uF-16K-0402-AEC	Capacitor	Fixed, Ceramic	8	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.299879365558732, Environment Factor =1.2	0.215913143	1.727305146
3.66	CAP-X7RS-0.1uF-16K-0402-AEC	Capacitor	Fixed, Ceramic	8	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.463592196526344, Environment Factor =1.2	0.333786381	2.670291052
3.67	CAP-COGS-100pF-50K-0603	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.149210084949725, Environment Factor =1.2	0.107431261	0.107431261
3.68	CAP-COGS-12pF-50K-0603	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.2	0.12149234	0.121492340
3.69	CAP-COGS-33pF-100V-0603	Capacitor	Fixed, Ceramic	2	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.147386041766983, Environment Factor =1.2	0.10611795	0.212235900

	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
0	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	Fixed, Ceramic	2	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.149210084949725, Environment Factor =1.2	0.107431261	0.214862522
1	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.2	0.12149234	0.121492340
2	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	Fixed, Ceramic	2	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.34438329921894, Environment Factor =1.2	0.247955975	0.495911951
3	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	Fixed, Ceramic	8	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.149210084949725, Environment Factor =1.2	0.107431261	0.859450089
4	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	Fixed, Ceramic	22	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.2	0.12149234	2.672831471
5	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	Fixed, Ceramic	14	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.193980042290892, Environment Factor =1.2	0.13966563	1.955318826
6	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	Fixed, Ceramic	2	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.34438329921894, Environment Factor =1.2	0.247955975	0.495911951
7	CAP-X5RS-0.22uF-50V-0603-AEC	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.2	0.12149234	0.121492340
8	CAP-X5RS-10uF-16K-0603-AEC	Capacitor	Fixed, Ceramic	6	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.299879365558732, Environment Factor =1.2	0.215913143	1.295478859

Name	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
3.79	CAP-X5RS-2.2uF-50V-0603-AEC	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor =1.2	0.247955975	0.247955975
3.80	CAP-X5RS-2.2uF-50V-0603-AEC	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.2	0.12149234	0.121492340
3.81	CAP-X7RS-1KpF-50V-0603	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor =1.2	0.12149234	0.121492340
3.82	CAP-X7RS-1KpF-50V-0603	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.193980042290892, Environment Factor =1.2	0.13966563	0.139665630
3.83	CAP-X7RS-1uF-50K-0603	Capacitor	Fixed, Ceramic	2	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.344383299218 94, Environment Factor =1.2	0.247955975	0.495911951
3.84	CAP-X7RS-22KpF-50V-0603-AEC	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.193980042290892, Environment Factor =1.2	0.13966563	0.139665630
3.85	CAP-FILTER-0.1uF-25V-0805-NFM21PC104R1E3D	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.221175229051755, Environment Factor =1.2	0.159246165	0.159246165
3.86	CAP-FILTER-0.1uF-25V-0805-NFM21PC104R1E3D	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor =1.2	0.66331581	0.663315810
3.87	CAP-X5RS-10uF-25V-0805-AEC	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.172941827198 55, Environment Factor =1.2	0.124518116	0.124518116

	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
8	CAP-X5RS-10uF-25V-0805-AEC	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.221175229051755, Environment Factor =1.2	0.159246165	0.15924616565
9	CAP-X5RS-10uF-25V-0805-AEC	Capacitor	Fixed, Ceramic	5	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.292292577680859, Environment Factor =1.2	0.210450656	1.052253280
0	CAP-X5RS-2.2uF-16V-0805-AEC	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.463592196526344, Environment Factor =1.2	0.333786381	0.33378638181
1	CAP-X5RS-4.7uF-16V-0805-AEC	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.299879365558732, Environment Factor =1.2	0.215913143	0.21591314343
2	CAP-X5RS-4.7uF-16V-0805-AEC	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.204180678132168, Environment Factor =1.2	0.147010088	0.14701008888
3	CAP-X5RS-4.7uF-16V-0805-AEC	Capacitor	Fixed, Ceramic	4	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.299879365558732, Environment Factor =1.2	0.215913143	0.86365257
4	CAP-X5RS-4.7uF-16V-0805-AEC	Capacitor	Fixed, Ceramic	7	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.463592196526344, Environment Factor =1.2	0.333786381	2.33650467
5	CAP-X5RS-47uF-10K-0805	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.498077296572962, Environment Factor =1.2	0.358615654	0.35861565454
6	CAP-X7RS-0.22uF-100K-0805	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.147386041766983, Environment Factor =1.2	0.10611795	0.10611795

Name	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
3.97	CAP-X7RS-10nF-100V-0805	Capacitor	Fixed, Ceramic	4	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.147386041766983, Environment Factor =1.2	0.10611795	0.424471800
3.98	CAP-X5RS-47uF-16V-1206	Capacitor	Fixed, Ceramic	6	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.463592196526344, Environment Factor =1.2	0.333786381	2.002718289
3.99	CAP-X6S-10uF-25K-1206-AEC	Capacitor	Fixed, Ceramic	2	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor =1.2	0.66331581	1.326631621
3.100	CAP-X7RS-1000pF-2KV-1206	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.129608747655498, Environment Factor =1.2	0.093318298	0.093318298
3.101	CAP-X7RS-1000pF-2KV-1206	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.131401205328744, Environment Factor =1.2	0.094608868	0.094608868
3.102	CAP-ELE-FC-330uF-16V	Capacitor	Fixed, Aluminium, Electrolytic	2	Mean Generic Steady State Failure rate = 0.73, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.637628151621773, Environment Factor =1.2	3.351373565	6.702747130
3.103	CAP-ELEYXJ-220uF-25V	Capacitor	Fixed, Aluminium, Electrolytic	3	Mean Generic Steady State Failure rate = 0.73, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.953133787077505, Environment Factor =1.2	5.009671185	15.029013555
3.104	PJ-102AH	Connector	General Purpose, Power	1	Mean Generic Steady State Failure rate = 6.6, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	47.520000000	47.520000000
3.105	2309411-1	Connector	Multi-Pin	1	Mean Generic Steady State Failure rate = 10.4, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	74.880000000	74.880000000

	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
96	XF3M-3115-1B	Connector	Ribbon Cable	1	Mean Generic Steady State Failure rate = 3.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	22.320000000	22.320000000
97	SS-53000-001	Connector	Multi-Pin	1	Mean Generic Steady State Failure rate = 0.76, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	5.472000000	5.472000000
98	DF1BZ-2P-2.5DSA	Connector	General Purpose, Power	1	Mean Generic Steady State Failure rate = 4.4, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	31.680000000	31.680000000
99	DF1BZ-3P-2.5DSA	Connector	General Purpose, Power	2	Mean Generic Steady State Failure rate = 6.6, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	47.520000000	95.040000000
100	10128798-005RLF	Connector	Multi-Pin	1	Mean Generic Steady State Failure rate = 3, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	21.600000000	21.600000000
101	615008137421	Connector	Multi-Pin	1	Mean Generic Steady State Failure rate = 0.48, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	3.456000000	3.456000000
102	61400416021	Connector	Multi-Pin	1	Mean Generic Steady State Failure rate = 0.16, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	1.152000000	1.152000000
103	CH28-2032LF	Connector	General Purpose, Power	1	Mean Generic Steady State Failure rate = 4.4, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	31.680000000	31.680000000
104	ICD15S13E4GX00LF	Connector	Multi-Pin	1	Mean Generic Steady State Failure rate = 0.6, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	4.320000000	4.320000000

Name	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
3.115	1N4148WQ-7-F	Diode	Silicon ,General Purpose	10	Mean Generic Steady State Failure rate = 0.33, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.197240134969974, Environment Factor =1.2	0.468642561	4.686425607
3.116	1N4148WSF-7	Diode	Silicon ,General Purpose	1	Mean Generic Steady State Failure rate = 0.33, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.20109054494341, Environment Factor =1.2	0.477791135	0.477791135
3.117	BAS70W-05-7-F	Diode	Silicon ,General Purpose	1	Mean Generic Steady State Failure rate = 0.33, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.274485417622996, Environment Factor =1.2	0.652177352	0.652177352
3.118	CGRM4007-G	Diode	Silicon ,General Purpose	2	Mean Generic Steady State Failure rate = 0.33, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.311299440138217, Environment Factor =1.2	0.739647470	1.479294940
3.119	PNE20020ERX	Diode	Silicon ,General Purpose	8	Mean Generic Steady State Failure rate = 0.33, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.178976637217076, Environment Factor =1.2	0.425248490	3.401987920
3.120	AQ3522-01FTG	Diode	TVS Surge Supressor	4	Mean Generic Steady State Failure rate = 2.55, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.237307146525352, Environment Factor =1.2	4.356959210	17.427836841
3.121	CDSOD323-T03	Diode	TVS Surge Supressor	2	Mean Generic Steady State Failure rate = 2.55, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.234910661722778, Environment Factor =1.2	4.312959749	8.625919498
3.122	RCLAMP0524J.TCT	Diode	TVS Surge Supressor	3	Mean Generic Steady State Failure rate = 2.55, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.235934748875974, Environment Factor =1.2	4.331761989	12.995285968
3.123	SD05-7	Diode	TVS Surge Supressor	5	Mean Generic Steady State Failure rate = 2.55, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.23485389850536, Environment Factor =1.2	4.311917577	21.559587883

	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
4	SD12CT1GOSCT	Diode	TVS Surge Supressor	1	Mean Generic Steady State Failure rate = 2.55, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.235934748875974, Environment Factor =1.2	4.331761989	4.331761989
5	SMAJ15A	Diode	TVS Surge Supressor	1	Mean Generic Steady State Failure rate = 2.55, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.234985443968236, Environment Factor =1.2	4.314332751	4.314332751
6	SMAJ15CA	Diode	TVS Surge Supressor	4	Mean Generic Steady State Failure rate = 2.55, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.234985443968236, Environment Factor =1.2	4.314332751	17.257331005
7	SMBJ20A	Diode	TVS Surge Supressor	1	Mean Generic Steady State Failure rate = 2.55, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.241472423696872, Environment Factor =1.2	4.433433699	4.433433699
8	SMF5.0A-TP	Diode	TVS Surge Supressor	2	Mean Generic Steady State Failure rate = 2.55, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.234883978686203, Environment Factor =1.2	4.312469849	8.624939697
9	SP0504SHTG	Diode	TVS Surge Supressor	3	Mean Generic Steady State Failure rate = 2.55, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.241472423696872, Environment Factor =1.2	4.433433699	13.300301097
30	BZX38450-C1V8-QF	Diode	Voltage Regulator	1	Mean Generic Steady State Failure rate = 0.9, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.339595525644939, Environment Factor =1.2	2.200579006	2.200579006
31	SMAZ5V1-TP	Diode	Voltage Regulator	1	Mean Generic Steady State Failure rate = 0.9, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.347844408917087, Environment Factor =1.2	2.254031770	2.254031770
32	DMN3042L-7	Transistor	FIELD EFFECT,Silicon, Switch	6	Mean Generic Steady State Failure rate = 3.44, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.420350384508682, Environment Factor = 1.2	10.41123832	62.467429 94

Name	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
3.133	DMP2305UDICT	Transistor	FIELD EFFECT,Silicon, Switch	1	Mean Generic Steady State Failure rate = 3.44, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.357517334979169, Environment Factor = 1.2	8.854989353	8.854989353
3.134	FDS4435BZCT	Transistor	FIELD EFFECT,Silicon, Switch	1	Mean Generic Steady State Failure rate = 3.44, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.33154225878488, Environment Factor = 1.2	8.211638666	8.211638666
3.135	FDS6375	Transistor	FIELD EFFECT,Silicon, Switch	1	Mean Generic Steady State Failure rate = 3.44, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.33154225878488, Environment Factor = 1.2	8.211638666	8.211638666
3.136	FMMT618TA	Transistor	SILICON,NPN/PNP,> 0.6 and < 6.0 w	4	Mean Generic Steady State Failure rate = 1.77, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.242682809257623, Environment Factor = 1.2	3.092749721	12.37099888
3.137	MMBT3904	Transistor	SILICON,NPN/PNP, <0.6 W	5	Mean Generic Steady State Failure rate = 0.69, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.24309919372964, Environment Factor = 1.2	1.207716794	6.038583972
3.138	MV5439A	Opto-Electronic Device	Single LED/LCD Segment	1	Mean Generic Steady State Failure rate = 0.25, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	1.8	1.8
3.139	150080VS75000	Opto-Electronic Device	Single LED/LCD Segment	6	Mean Generic Steady State Failure rate = 0.25, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	1.8	10.8
3.140	CT2184LPST	Switch	Rocker or Slide	1	Mean Generic Steady State Failure rate = 6.62, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.549910357721601, Environment Factor = 1.2	26.21092729	26.21092729
3.141	TL58XF160Q	Switch	Pushbutton	1	Mean Generic Steady State Failure rate = 1.99, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.535796957667456, Environment Factor = 1.2	7.676898809	7.676898809

	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
2	830000335	Crystal	QUARTZ CRYSTAL	1	Mean Generic Steady State Failure rate = 3.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	22.32	22.32
3	ECS-327MVATX-7-CN-TR	Crystal	CRYSTAL OSCILLATOR, Quartz Controlled	1	Mean Generic Steady State Failure rate = 3.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	23.04	23.04
4	AP2138N-1.8TRG1	IC-Analog Device	Voltage regulator linear	1	Mean Generic Steady State Failure rate = 1.2, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	42.480000000	42.480000000
15	DRV8833PW	IC-Analog Device	Motor driver	1	Mean Generic Steady State Failure rate = 5.9, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	42.480000000	42.480000000
16	MCP3221A5T-I/OTCT	IC-Analog Device	ADC	1	Mean Generic Steady State Failure rate = 5.9, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	42.480000000	42.480000000
17	TLV803ED29DBZR	IC-Analog Device	Voltage monitor	2	Mean Generic Steady State Failure rate = 5.9, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	42.480000000	84.960000000
48	TPS2042BDR	IC-Analog Device	Power switch	1	Mean Generic Steady State Failure rate = 4.9, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	42.480000000	42.480000000
49	TPS22917DBVR	IC-Analog Device	Power switch	2	Mean Generic Steady State Failure rate = 5.9, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	42.480000000	84.960000000
50	TPS7A7401DSDR	IC-Analog Device	Voltage regulator linear	1	Mean Generic Steady State Failure rate = 4.9, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	42.480000000	42.480000000

Name	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
3.151	74LVC1G14GVQ100,1	IC-Digital Device	74LVC1G14GVQ100,1	2	Mean Generic Steady State Failure rate = 2.19, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	22.968	45.936
3.152	74LVC1G17DBVR	IC-Digital Device	IC-74LVC1G17DBVR	2	Mean Generic Steady State Failure rate = 2.19, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	22.968	45.936
3.153	MCP9808T-E/MS	IC-Digital Device	IC-MCP9808T-E/MS	1	Mean Generic Steady State Failure rate = 2.19, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	22.968	22.968
3.154	PCA9617ADPJ	IC-Digital Device	IC-PCA9617ADPJ	1	Mean Generic Steady State Failure rate = 2.19, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	22.968	22.968
3.155	PCF2129T-2, 518	IC-Digital Device	IC-PCF2129T-2, 518	1	Mean Generic Steady State Failure rate = 2.19, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	22.968	22.968
3.156	MAX33071EASA+	IC-Digital Device	IC-MAX33071EASA+	2	Mean Generic Steady State Failure rate = 2.19, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	22.968	45.936
3.157	SN74LVC1G74DCU	IC-Digital Device	IC-SN74LVC1G74DCU	1	Mean Generic Steady State Failure rate = 2.19, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	22.968	22.968
3.158	TXB0108PWR	IC-Digital Device	IC-TXB0108PWR	2	Mean Generic Steady State Failure rate = 2.19, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	22.968	45.936
3.159	AT24C02DSSHM-T	IC-Memory	IC-AT24C02DSSHM-T	1	Mean Generic Steady State Failure rate = 2.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	13.68	13.68

	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
0	ATMEGA88PA-AN	IC-Microprocessor	IC-ATMEGA88PA-AN	1	Mean Generic Steady State Failure rate = 7.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	51.12	51.12
1	0685T2000-01	Miscellaneous Devices	FUSE, < 30A	1	Mean Generic Steady State Failure rate = 0.4, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	2.880000000	2.880000000
2	SF-1206S100-2	Miscellaneous Devices	FUSE, < 30A	1	Mean Generic Steady State Failure rate = 0.4, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	2.880000000	2.880000000
3	CR2032	Miscellaneous Devices	BATTERY,Lithium	1	Mean Generic Steady State Failure rate = 25, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	180.0000000000	180.0000000000
4	742792096	Other	IND-FB-1K-1A-0805-742792096	6	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	0.720000000	4.320000000
5	742792022	Other	IND-FB-220E-2A-0805-742792022	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	0.720000000	0.720000000
6	MMZ1608B221CTAH0	Other	IND-FB-220E-0603-MMZ1608B/500mA	5	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	0.720000000	3.600000000
7	SM51589PEL	Other	TRF-SM51589PEL	1	Mean Generic Steady State Failure rate = 3, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	21.60000000	21.60000000
	PCB MTX 809.1						
1.1	RMCF0603FT33K0	Resistor	FILM (Carbon, Oxide, Metal)	2	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.557105861812174, Environment Factor = 1.2	0.320892976	0.641785953

Name	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
4.2	RMCF0603FT10K0	Resistor	FILM (Carbon, Oxide, Metal)	3	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.535796957667456, Environment Factor = 1.2	0.308619048	0.925857143
4.3	CRCW0603K50FKEA	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor = 1.2	0.304632966	0.304632966
4.4	CRCW060311K0FKEA	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.542807789790324, Environment Factor = 1.2	0.312657287	0.312657287
4.5	RMCF0603FT2K20	Resistor	FILM (Carbon, Oxide, Metal)	1	Mean Generic Steady State Failure rate = 0.08, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.528876676505682, Environment Factor = 1.2	0.304632966	0.304632966
4.6	KGM15ACG1H101J	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.168739360517895, Environment Factor = 1.2	0.06074617	0.060746170
4.7	KGM15ACG1H101J	Capacitor	Fixed, Ceramic	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.193980042290892, Environment Factor = 1.2	0.069832815	0.069832815
4.8	UMK107BJ104KAHT	Capacitor	Fixed, Ceramic	4	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 3, Temperature Factor = 1, Electrical Stress Factor = 0.34438329921894, Environment Factor = 1.2	0.123977988	0.495911951
4.9	GRT31CC81E106KE01L	Capacitor	Fixed, Ceramic	6	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.921271958696349, Environment Factor = 1.2	0.66331581	3.979894862
4.10	EMK316ABJ226KL-T	Capacitor	Fixed, Ceramic	3	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.463592196526344, Environment Factor = 1.2	0.333786381	1.001359144

	Part Number	Category Description	Device Type	Quantity	Pi Factors All	Failure Rate	N × Failure Rate
1	EMK316ABJ226KL-T	Capacitor	Fixed, Ceramic	3	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.299879365558732, Environment Factor = 1.2	0.215913143	0.647739430
2	P9102-40-12-1 (40X1)	Connector	Multi-Pin	1	Mean Generic Steady State Failure rate = 0.16, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	1.152000000	1.152000000
3	P9102-40-12-1 (40X1)	Connector	Multi-Pin	1	Mean Generic Steady State Failure rate = 0.24, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	1.728000000	1.728000000
4	SMAJ15ALFCT	Diode	TVS Surge Supressor	1	Mean Generic Steady State Failure rate = 2.55, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 0.234570702883088, Environment Factor = 1.2	4.306718105	4.306718105
15	TPS566247 ORLR	IC-Analog Device	Linear voltage regulator	2	Mean Generic Steady State Failure rate = 4.9, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	42.480000000	84.960000000
16	0685T3000-01	Miscellaneous Devices	FUSE, < 30A	1	Mean Generic Steady State Failure rate = 0.4, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	2.880000000	2.880000000
17	ACM1211-102-2PL-TL01	Other	CHK-ACM 1211-102-2PL-TL00	1	Mean Generic Steady State Failure rate = 0.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	0.720000000	0.720000000
18	DD1217AS-H-4R7N=P3	Other	IND-4.7uH-7A-DD1217AS-H4R7N	2	Mean Generic Steady State Failure rate = 0.9, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.2	6.480000000	12.960000000

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(26 Pages)

Annexure- IV

Telcordia SR-332,Issue 4

PARAMETERS REPORT

(Temperature 40 ℃)

TELCORDIA SR-332 PARAMETERS REPORT

Name: 5M ANPR Camera Model No. : K-ANPR-GS-5M
Failure Rate (in FITS): 2680.0071
MTBF: 373133.3391

Sl No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
1	PCB MTX 581.5				
1.1	RMCF0603FT22K0	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 22000, Rated Power =0.1	1
1.2	CRCW06031K20FKEA	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1200, Rated Power =0.1	1
1.3	RMCF0603FT2K20	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 2200, Rated Power =0.1	1
1.4	RMCF0603FT220R	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 220, Rated Power =0.1	1
1.5	3362P-501LF	Resistor(Variable)	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = NON-WIREWOUND,Film, Quality = Level 0,Resistance = 500, Rated Power =0.5	1
1.6	GRT188R61C475KE13J	Capacitor	Quantity = 1,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 4.7, Rated Voltage =16	1
1.7	GRT188R61C475KE13J	Capacitor	Quantity = 1,Applied Power =5, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 4.7, Rated Voltage =16	1
1.8	UMK107BJ104KAHT	Capacitor	Quantity = 2,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1, Rated Voltage =50	2
1.9	AP2138N-3.3TRG1	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Voltage regulator, Quality = Level 0 , No of Transistors = 500-600	1

No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
10	MCP6051T-E/OT	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Op-amp, Quality = Level 0, No of Transistors = 500-600	1
11	SFH5711-2/3-Z	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Light sensor, Quality = Level 0, No of Transistors = 500-600	1
:	PCB MTX 744.6				
1	RMCF0402FT10R0	Resistor	Quantity = 10,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10, Rated Power =0.063	10
2	RMCF0402JT22R0	Resistor	Quantity = 3,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 22, Rated Power =0.063	3
3	RMCF0402FT33R0	Resistor	Quantity = 5,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 33, Rated Power =0.063	5
4	CRCW0402100RFKED	Resistor	Quantity = 16,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100, Rated Power =0.063	16
5	RMCF0402JT1K00	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1000, Rated Power =0.063	1
6	RMCF0402JT1K00	Resistor	Quantity = 1,Applied Power =0.002, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1000, Rated Power =0.063	1
7	RMCF0402JT1K00	Resistor	Quantity = 1,Applied Power =0.004, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1000, Rated Power =0.063	1

Sl No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
2.8	RMCF0402JT1K00	Resistor	Quantity = 2,Applied Power =0.01, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1000, Rated Power =0.063	2
2.9	RMCF0402FT1K80	Resistor	Quantity = 1,Applied Power =0.002, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1800, Rated Power =0.063	1
2.10	RMCF0603FT2K20	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 2200, Rated Power =0.1	1
2.11	RMCF0603FT3K30	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 3300, Rated Power =0.1	1
2.12	CRCW040210K0FKED	Resistor	Quantity = 5,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10000, Rated Power =0.063	5
2.13	RMCF0603FT12K0	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 12000, Rated Power =0.1	1
2.14	RMCF0402FT14K0	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 14000, Rated Power =0.063	1
2.15	CRCW0402100KFKED	Resistor	Quantity = 3,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100000, Rated Power =0.063	3
2.16	RMCF0402FT47R0	Resistor	Quantity = 2,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 47, Rated Power =0.063	2

No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
17	CRCW060347R0FKEA	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 47, Rated Power =0.1	1
18	RMCF0402FT4K70	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4700, Rated Power =0.063	1
19	RMCF0402FT4K70	Resistor	Quantity = 2,Applied Power =0.002, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4700, Rated Power =0.063	2
20	RMCF0603FT8K20	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 8200, Rated Power =0.1	1
21	RMCF0603FT10K0	Resistor	Quantity = 5,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10000, Rated Power =0.1	5
22	RMCF0603FT1K00TR	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1000, Rated Power =0.1	1
23	RMCF0603FT47K0	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 47000, Rated Power =0.1	1
24	06035C102KAT2A	Capacitor	Quantity = 3,Applied Power =1.1, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.001, Rated Voltage =50	3
25	06035C102KAT2A	Capacitor	Quantity = 1,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.001, Rated Voltage =50	1
26	GRM155R61A475MEAAD	Capacitor	Quantity = 8,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 4.7, Rated Voltage =10	8
27	GRM155R61A475MEAAD	Capacitor	Quantity = 1,Applied Power =2.9, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 4.7, Rated Voltage =10	1

Sl No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
2.28	UMK107AB7105KA-T	Capacitor	Quantity = 3,Applied Power =1.1, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 1, Rated Voltage =50	3
2.29	UMK107AB7105KA-T	Capacitor	Quantity = 2,Applied Power =1.8, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 1, Rated Voltage =50	2
2.30	UMK107AB7105KA-T	Capacitor	Quantity = 3,Applied Power =2.9, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 1, Rated Voltage =50	3
2.31	GRT188R61C106KE13J	Capacitor	Quantity = 11,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10, Rated Voltage =16	11
2.32	GRM188R61A226ME15D	Capacitor	Quantity = 1,Applied Power =2.9, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22, Rated Voltage =10	1
2.33	GRM188R61A226ME15D	Capacitor	Quantity = 2,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22, Rated Voltage =10	2
2.34	TMK212BBJ106KGHT	Capacitor	Quantity = 1,Applied Power =1.1, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10, Rated Voltage =10	1
2.35	TMK212BBJ106KGHT	Capacitor	Quantity = 1,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10, Rated Voltage =10	1
2.36	GRM13CR61A476ME15L	Capacitor	Quantity = 2,Applied Power =1.8, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 47, Rated Voltage =10	2
2.37	GRM13CR61A476ME15L	Capacitor	Quantity = 2,Applied Power =2.9, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 47, Rated Voltage =10	2
2.38	GRM13CR61A476ME15L	Capacitor	Quantity = 14,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 47, Rated Voltage =10	14
2.39	GRT155R71C104KE01J	Capacitor	Quantity = 30,Applied Power =1.1, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1, Rated Voltage =16	30
2.40	GRT155R71C104KE01J	Capacitor	Quantity = 4,Applied Power =1.8, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1, Rated Voltage =16	4

No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
41	GRT155R71C104KE01J	Capacitor	Quantity = 13,Applied Power =2.9, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1, Rated Voltage =16	13
42	GRT155R71C104KE01J	Capacitor	Quantity = 23,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1, Rated Voltage =16	23
43	06035C331KAT2A	Capacitor	Quantity = 1,Applied Power =2, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.00033, Rated Voltage =50	1
44	UMK107BJ104KAHT	Capacitor	Quantity = 2,Applied Power =1.8, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1, Rated Voltage =50	2
45	UMK107BJ104KAHT	Capacitor	Quantity = 5,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1, Rated Voltage =50	5
46	GRT188R61C475KE13J	Capacitor	Quantity = 19,Applied Power =1.1, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 4.7, Rated Voltage =16	19
47	GRT188R61C475KE13J	Capacitor	Quantity = 3,Applied Power =1.8, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 4.7, Rated Voltage =16	3
48	GRT188R61C475KE13J	Capacitor	Quantity = 6,Applied Power =2.9, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 4.7, Rated Voltage =16	6
49	GRT188R61C475KE13J	Capacitor	Quantity = 2,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 4.7, Rated Voltage =16	2
50	EEU-FM1A471BJ	Capacitor	Quantity = 2,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Aluminium, Electrolytic, Quality = Level 0,Capacitance = 470, Rated Voltage =10	2
51	FH55-31S-0.5SH	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 31	1
52	MSO-3630442	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 4	1

Sl No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
2.53	1N4148WSF-7	Diode	Quantity = 2,Operating Current(in Amps) =0.01, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Silicon ,General Purpose, Quality = Level 0, Rated Current(in Amps) =0.3	2
2.54	SI2329DS-T1-GE3	Transistor	Quantity = 3,Dissipated Power =0.1,Applied Voltage =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FIELD EFFECT,Silicon, Switch, Quality = Level 0,Rated Voltage = 8, Rated Power =10	3
2.55	DMN3042L-7	Transistor	Quantity = 3,Dissipated Power =0.1,Applied Voltage =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FIELD EFFECT,Silicon, Switch, Quality = Level 0,Rated Voltage = 30, Rated Power =10	3
2.56	MMBT3904L	Transistor	Quantity = 1,Dissipated Power =0.1,Applied Voltage =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = SILICON,NPN/PNP, <0.6 W, Quality = Level 0,Rated Voltage = 40, Rated Power =0.5	1
2.57	SIT1602BI-21-18E-74.250000	Crystal	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = CRYSTAL OSCILLATOR, Quartz Controlled, Quality = Level 0	1
2.58	IMX565AAQJ-C	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = IMAGE SENSOR ANALOG, Quality = Level 0 , No of Transistors = 5000	1
2.59	LD39200DPUR	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = ANALOG, Quality = Level 0 , No of Transistors = 500	1
2.60	AP7331-WG-7	IC-Analog Device	Quantity = 2, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = ANALOG, Quality = Level 0 , No of Transistors = 500	2
2.61	ZXGD3009E6TA	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = ANALOG, Quality = Level 0 , No of Transistors = 500	1
2.62	APX809-26SAG-7	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = ANALOG, Quality = Level 0 , No of Transistors = 500	1
2.63	SN74LVC1G17DBVR	IC-Digital Device	Quantity = 2, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = IC-SN74LVC1G17DBVR, Quality = Level 0 , No of Transistors = 2000-4000	2

No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
54	LM3880QMF-1AB/NOPB	IC-Digital Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = IC-LM3880QMF-1AB/NOPB, Quality = Level 0 , No of Transistors = 2000-4000	1
55	TCA9800DGKT	IC-Digital Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = IC-TCA9800DGKT, Quality = Level 0 , No of Transistors = 2000-4000	1
56	TXB0106PWR	IC-Digital Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = IC-TXB0106PWR, Quality = Level 0 , No of Transistors = 2000-4000	1
67	SN74LVC1G74DCUR	IC-Digital Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = IC-SN74LVC1G74DCUR, Quality = Level 0 , No of Transistors = 2000-4000	1
68	SN74LVC1G32DBVR	IC-Digital Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = IC-SN74LVC1G32DBVR, Quality = Level 0 , No of Transistors = 2000-4000	1
69	ATTINY204-SSNR	IC-Microprocessor	Mean Generic Steady State Failure rate = 7.1, Quality Factor = 6, Temperature Factor = 1, Electrical Stress Factor = 1, Environment Factor = 1.5	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	1
70	MMZ1608B221CTAH0	Other	Quantity = 11, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = 220 Ohms @ 100 MHz 1 Signal Line Ferrite Bead 0603 (1608 Metric) 500mA 250mOhm, Quality = Level 0	11
71	MMZ1608B221CTAH0	Other	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = 220 Ohms @ 100 MHz 1 Signal Line Ferrite Bead 0603 (1608 Metric) 500mA 250mOhm, Quality = Level 0	1
3	*PCB MTX 808.3*				
.1	CRCW0402100RFKED	Resistor	Quantity = 4,Applied Power =0.01, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100, Rated Power =0.063	4
.2	CRCW0402100RFKED	Resistor	Quantity = 10,Applied Power =0.01, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100, Rated Power =0.063	10

Sl No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
3.3	CRCW0402100RFKED	Resistor	Quantity = 4,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100, Rated Power =0.063	4
3.4	RMCF0402FT10R0	Resistor	Quantity = 2,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10, Rated Power =0.063	2
3.5	RMCF0402FT10K0	Resistor	Quantity = 10,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10000, Rated Power =0.063	10
3.6	RMCF0402JT1K00	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1000, Rated Power =0.063	1
3.7	CRCW0402K20FKED	Resistor	Quantity = 2,Applied Power =0.005, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 2200, Rated Power =0.063	2
3.8	RMC0402FT22R0	Resistor	Quantity = 8,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 22, Rated Power =0.063	8
3.9	RMC0402FT33R0	Resistor	Quantity = 2,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 33, Rated Power =0.063	2
3.10	RMCF0402FT4R70	Resistor	Quantity = 8,Applied Power =0.005, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4.7, Rated Power =0.063	8
3.11	RMCF0402FT4K70	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4700, Rated Power =0.063	1

No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
12	RMCF0402FT499R	Resistor	Quantity = 8,Applied Power =0.002, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 499, Rated Power =0.063	8
13	RMCF0603FT100R	Resistor	Quantity = 18,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100, Rated Power =0.1	18
14	RMCF0603FT100R	Resistor	Quantity = 1,Applied Power =0.004, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100, Rated Power =0.1	1
15	RMCF0603FT100R	Resistor	Quantity = 3,Applied Power =0.01, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100, Rated Power =0.1	3
16	RMCF0603FT100K	Resistor	Quantity = 4,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100000, Rated Power =0.1	4
17	RMCF0603FT10K0	Resistor	Quantity = 18,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10000, Rated Power =0.1	18
18	RMCF0603FT10K0	Resistor	Quantity = 1,Applied Power =0.002, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10000, Rated Power =0.1	1
19	RMCF0603FT10K0	Resistor	Quantity = 1,Applied Power =0.0025, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10000, Rated Power =0.1	1
20	RMCF0603FT10K0	Resistor	Quantity = 1,Applied Power =0.005, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10000, Rated Power =0.1	1

Sl No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
3.21	RMCF0603FT130K	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 130000, Rated Power =0.1	1
3.22	CRCW0603150KFKEA	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 150000, Rated Power =0.1	1
3.23	RMCF0603FT15K0	Resistor	Quantity = 4,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 15000, Rated Power =0.1	4
3.24	CRCW06031K30FKEA	Resistor	Quantity = 1,Applied Power =0.04, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1300, Rated Power =0.1	1
3.25	RMCF0603FT1K00	Resistor	Quantity = 5,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1000, Rated Power =0.1	5
3.26	RMCF0603FT1K00	Resistor	Quantity = 1,Applied Power =0.01, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1000, Rated Power =0.1	1
3.27	RMCF0603FT1K00	Resistor	Quantity = 1,Applied Power =0.02, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1000, Rated Power =0.1	1
3.28	RMCF0603FT1K00	Resistor	Quantity = 4,Applied Power =0.04, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1000, Rated Power =0.1	4
3.29	RMCF0603FT1M00	Resistor	Quantity = 2,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1000000, Rated Power =0.1	2

No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
30	ERJ-3EKF2051V	Resistor	Quantity = 1,Applied Power =0.033, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 2000, Rated Power =0.1	1
31	RMCF0603FT2K10	Resistor	Quantity = 1,Applied Power =0.005, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 2100, Rated Power =0.1	1
32	RMCF0603FT2K20	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 2200, Rated Power =0.1	1
33	RMCF0603FT2K20	Resistor	Quantity = 1,Applied Power =0.002, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 2200, Rated Power =0.1	1
34	RMCF0603FT2K20	Resistor	Quantity = 8,Applied Power =0.005, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 2200, Rated Power =0.1	8
35	RMCF0603FT220R	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 220, Rated Power =0.1	1
36	RMCF0603FT220R	Resistor	Quantity = 1,Applied Power =0.02, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 220, Rated Power =0.1	1
37	CRCW060322R0FKEAHP	Resistor	Quantity = 5,Applied Power =0.01, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 22, Rated Power =0.333	5
38	RMCF0603FT22R0	Resistor	Quantity = 10,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 22, Rated Power =0.1	10

Sl No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
3.39	RMCF0603FT22K0	Resistor	Quantity = 2,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 22000, Rated Power =0.1	2
3.40	RMCF0603FT3K30	Resistor	Quantity = 1,Applied Power =0.01, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 22000, Rated Power =0.1	1
3.41	RMCF0603FT3K30	Resistor	Quantity = 1,Applied Power =0.05, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 22000, Rated Power =0.1	1
3.42	RMCF0603FT3K30	Resistor	Quantity = 2,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 22000, Rated Power =0.1	2
3.43	RMCF0603FT3K30	Resistor	Quantity = 5,Applied Power =0.003, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 3300, Rated Power =0.1	5
3.44	RMCF0603FT33K0	Resistor	Quantity = 5,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 33000, Rated Power =0.1	5
3.45	RMCF0603FT4K70	Resistor	Quantity = 2,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4700, Rated Power =0.1	2
3.46	RMCF0603FT4K70	Resistor	Quantity = 5,Applied Power =0.002, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4700, Rated Power =0.1	5
3.47	RMCF0603FT4K70	Resistor	Quantity = 1,Applied Power =0.005, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 4700, Rated Power =0.1	1

No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
48	RMCF0603FT470R	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 470, Rated Power =0.1	1
49	RMCF0603FT470R	Resistor	Quantity = 2,Applied Power =0.02, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 470, Rated Power =0.1	2
50	CRCW06035R0FKEA	Resistor	Quantity = 1,Applied Power =0.005, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 50, Rated Power =0.1	1
51	MCR03EZPFX5100	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 510, Rated Power =0.1	1
52	RMCF0603JT560R	Resistor	Quantity = 1,Applied Power =0.01, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 560, Rated Power =0.1	1
53	RMCF0603FT56K0	Resistor	Quantity = 1,Applied Power =0.01, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 56000, Rated Power =0.1	1
54	RMCF0603FT56K0	Resistor	Quantity = 1,Applied Power =0.01, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 56000, Rated Power =0.1	1
55	RMCF0603FT75R0	Resistor	Quantity = 4,Applied Power =0.01, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 75, Rated Power =0.1	4
56	RL1220S-R50-F	Resistor	Quantity = 1,Applied Power =0.01, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 0.5, Rated Power =0.333	1

Sl No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
3.57	CRCW0805100RFKEAH	Resistor	Quantity = 2,Applied Power =0.04, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100, Rated Power =0.5	2
3.58	CRCW080510R0FKEAHP	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10, Rated Power =0.5	1
3.59	CRCW080510K0FKEA	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10000, Rated Power =0.125	1
3.60	RL1220S-2R2-F	Resistor	Quantity = 2,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 2.2, Rated Power =0.333	2
3.61	CRCW1206100RJNEAH	Resistor	Quantity = 1,Applied Power =0.04, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100, Rated Power =0.75	1
3.62	CRCW1206100RJNEAH	Resistor	Quantity = 1,Applied Power =0.25, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 100, Rated Power =0.75	1
3.63	CAP-X5RS-0.22uF-16K-0402	Capacitor	Quantity = 8,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.22, Rated Voltage =16	8
3.64	CAP-X7RS-0.1uF-16K-0402-AEC	Capacitor	Quantity = 6,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1, Rated Voltage =16	6
3.65	CAP-X7RS-0.1uF-16K-0402-AEC	Capacitor	Quantity = 8,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1, Rated Voltage =16	8
3.66	CAP-X7RS-0.1uF-16K-0402-AEC	Capacitor	Quantity = 8,Applied Power =5, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1, Rated Voltage =16	8
3.67	CAP-C0GS-100pF-50K-0603	Capacitor	Quantity = 1,Applied Power =1.8, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.0001, Rated Voltage =50	1

No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
68	CAP-COGS-12pF-50K-0603	Capacitor	Quantity = 1,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.000012, Rated Voltage =50	1
69	CAP-COGS-33pF-100V-0603	Capacitor	Quantity = 2,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.000033, Rated Voltage =100	2
70	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	Quantity = 2,Applied Power =1.8, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1, Rated Voltage =50	2
71	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	Quantity = 1,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1, Rated Voltage =50	1
72	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	Quantity = 2,Applied Power =12, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1, Rated Voltage =50	2
73	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	Quantity = 8,Applied Power =1.8, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1, Rated Voltage =50	8
74	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	Quantity = 22,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1, Rated Voltage =50	22
75	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	Quantity = 14,Applied Power =5, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1, Rated Voltage =50	14
76	CAP-X5RS-0.1uF-50K-0603-AEC	Capacitor	Quantity = 2,Applied Power =12, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1, Rated Voltage =50	2
77	CAP-X5RS-0.22uF-50V-0603-AEC	Capacitor	Quantity = 1,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.22, Rated Voltage =50	1
78	CAP-X5RS-10uF-16K-0603-AEC	Capacitor	Quantity = 6,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10, Rated Voltage =16	6
79	CAP-X5RS-2.2uF-50V-0603-AEC	Capacitor	Quantity = 1,Applied Power =12, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 2.2, Rated Voltage =50	1
80	CAP-X5RS-2.2uF-50V-0603-AEC	Capacitor	Quantity = 1,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 2.2, Rated Voltage =50	1

Sl No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
3.81	CAP-X7RS-1KpF-50V-0603	Capacitor	Quantity = 1,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.001, Rated Voltage =50	1
3.82	CAP-X7RS-1KpF-50V-0603	Capacitor	Quantity = 1,Applied Power =5, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.001, Rated Voltage =50	1
3.83	CAP-X7RS-1uF-50K-0603	Capacitor	Quantity = 2,Applied Power =12, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 1, Rated Voltage =50	2
3.84	CAP-X7RS-22KpF-50V-0603-AEC	Capacitor	Quantity = 1,Applied Power =5, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.022, Rated Voltage =50	1
3.85	CAP-FILTER-0.1uF-25V-0805-NFM21PC104R1E3D	Capacitor	Quantity = 1,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1, Rated Voltage =25	1
3.86	CAP-FILTER-0.1uF-25V-0805-NFM21PC104R1E3D	Capacitor	Quantity = 1,Applied Power =12, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1, Rated Voltage =25	1
3.87	CAP-X5RS-10uF-25V-0805-AEC	Capacitor	Quantity = 1,Applied Power =1.8, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10, Rated Voltage =25	1
3.88	CAP-X5RS-10uF-25V-0805-AEC	Capacitor	Quantity = 1,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10, Rated Voltage =25	1
3.89	CAP-X5RS-10uF-25V-0805-AEC	Capacitor	Quantity = 5,Applied Power =5, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10, Rated Voltage =25	5
3.90	CAP-X5RS-2.2uF-16V-0805-AEC	Capacitor	Quantity = 1,Applied Power =5, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 2.2, Rated Voltage =16	1
3.91	CAP-X5RS-4.7uF-16V-0805-AEC	Capacitor	Quantity = 1,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 4.7, Rated Voltage =16	1
3.92	CAP-X5RS-4.7uF-16V-0805-AEC	Capacitor	Quantity = 1,Applied Power =1.8, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 4.7, Rated Voltage =16	1

No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
93	CAP-X5RS-4.7uF-16V-0805-AEC	Capacitor	Quantity = 4,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 4.7, Rated Voltage =16	4
94	CAP-X5RS-4.7uF-16V-0805-AEC	Capacitor	Quantity = 7,Applied Power =5, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 4.7, Rated Voltage =16	7
95	CAP-X5RS-47uF-10K-0805	Capacitor	Quantity = 1,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 47, Rated Voltage =10	1
96	CAP-X7RS-0.22uF-100K-0805	Capacitor	Quantity = 1,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.22, Rated Voltage =100	1
97	CAP-X7RS-10nF-100V-0805	Capacitor	Quantity = 4,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.01, Rated Voltage =100	4
98	CAP-X5RS-47uF-16V-1206	Capacitor	Quantity = 6,Applied Power =5, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 47, Rated Voltage =16	6
99	CAP-X6S-10uF-25K-1206-AEC	Capacitor	Quantity = 2,Applied Power =12, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10, Rated Voltage =25	2
100	CAP-X7RS-1000pF-2KV-1206	Capacitor	Quantity = 1,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.001, Rated Voltage =2000	1
101	CAP-X7RS-1000pF-2KV-1206	Capacitor	Quantity = 1,Applied Power =10, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.001, Rated Voltage =2000	1
102	CAP-ELE-FC-330uF-16V	Capacitor	Quantity = 2,Applied Power =5, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Aluminium, Electrolytic, Quality = Level 0,Capacitance = 330, Rated Voltage =16	2
103	CAP-ELEYXJ-220uF-25V	Capacitor	Quantity = 3,Applied Power =12, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Aluminium, Electrolytic, Quality = Level 0,Capacitance = 220, Rated Voltage =25	3
104	PJ-102AH	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = General Purpose, Power, Quality = Level 0, No of Pins = 3	1

Sl No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
3.105	2309411-1	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 260	1
3.106	XF3M-3115-1B	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Ribbon Cable, Quality = Level 0, No of Pins = 31	1
3.107	SS-53000-001	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 19	1
3.108	DF1BZ-2P-2.5DSA	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = General Purpose, Power, Quality = Level 0, No of Pins = 2	1
3.109	DF1BZ-3P-2.5DSA	Connector	Quantity = 2, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = General Purpose, Power, Quality = Level 0, No of Pins = 3	2
3.110	10128798-005RLF	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 75	1
3.111	615008137421	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 12	1
3.112	61400416021	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 4	1
3.113	CH28-2032LF	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = General Purpose, Power, Quality = Level 0, No of Pins = 2	1
3.114	ICD15S13E4GX00LF	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 15	1
3.115	1N4148WQ-7-F	Diode	Quantity = 10,Operating Current(in Amps) =0.01, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Silicon ,General Purpose, Quality = Level 0, Rated Current(in Amps) =0.3	10
3.116	1N4148WSF-7	Diode	Quantity = 1,Operating Current(in Amps) =0.01, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Silicon ,General Purpose, Quality = Level 0, Rated Current(in Amps) =0.25	1

No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
17	BAS70W-05-7-F	Diode	Quantity = 1,Operating Current(in Amps) =0.01, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Silicon ,General Purpose, Quality = Level 0, Rated Current(in Amps) =0.07	1
18	CGRM4007-G	Diode	Quantity = 2,Operating Current(in Amps) =0.2, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Silicon ,General Purpose, Quality = Level 0, Rated Current(in Amps) =1	2
19	PNE20020ERX	Diode	Quantity = 8,Operating Current(in Amps) =0.01, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Silicon ,General Purpose, Quality = Level 0, Rated Current(in Amps) =2	8
20	AQ3522-01FTG	Diode	Quantity = 4,Operating Current(in Amps) =0.01, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = TVS Surge Supressor, Quality = Level 0, Rated Current(in Amps) =2.5	4
21	CDSOD323-T03	Diode	Quantity = 2,Operating Current(in Amps) =0.01, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = TVS Surge Supressor, Quality = Level 0, Rated Current(in Amps) =20	2
122	RCLAMP0524J.TCT	Diode	Quantity = 3,Operating Current(in Amps) =0.01, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = TVS Surge Supressor, Quality = Level 0, Rated Current(in Amps) =5	3
123	SD05-7	Diode	Quantity = 5,Operating Current(in Amps) =0.01, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = TVS Surge Supressor, Quality = Level 0, Rated Current(in Amps) =24	5
124	SD12CT1GOSCT	Diode	Quantity = 1,Operating Current(in Amps) =0.01, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = TVS Surge Supressor, Quality = Level 0, Rated Current(in Amps) =5	1
125	SMAJ15A	Diode	Quantity = 1,Operating Current(in Amps) =0.01, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = TVS Surge Supressor, Quality = Level 0, Rated Current(in Amps) =16.4	1

Sl No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
3.126	SMAJ15CA	Diode	Quantity = 4,Operating Current(in Amps) =0.01, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = TVS Surge Supressor, Quality = Level 0, Rated Current(in Amps) =16.4	4
3.127	SMBJ20A	Diode	Quantity = 1,Operating Current(in Amps) =0.01, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = TVS Surge Supressor, Quality = Level 0, Rated Current(in Amps) =1	1
3.128	SMF5.0A-TP	Diode	Quantity = 2,Operating Current(in Amps) =0.01, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = TVS Surge Supressor, Quality = Level 0, Rated Current(in Amps) =21.7	2
3.129	SP0504SHTG	Diode	Quantity = 3,Operating Current(in Amps) =0.01, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = TVS Surge Supressor, Quality = Level 0, Rated Current(in Amps) =1	3
3.130	BZX38450-C1V8-QF	Diode	Quantity = 1,Operating Current(in Amps) =0.01, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Voltage Regulator, Quality = Level 0, Rated Current(in Amps) =0.2	1
3.131	SMAZ5V1-TP	Diode	Quantity = 1,Operating Current(in Amps) =0.012, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = Voltage Regulator, Quality = Level 0, Rated Current(in Amps) =0.2	1
3.132	DMN3042L-7	Transistor	Quantity = 6,Dissipated Power =0.1,Applied Voltage =12, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FIELD EFFECT,Silicon, Switch, Quality = Level 0,Rated Voltage = 30V, Rated Power =0.72	6
3.133	DMP2305UDICT	Transistor	Quantity = 1,Dissipated Power =0.1,Applied Voltage =5, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FIELD EFFECT,Silicon, Switch, Quality = Level 0,Rated Voltage = 20, Rated Power =1.4	1
3.134	FDS4435BZCT	Transistor	Quantity = 1,Dissipated Power =0.1,Applied Voltage =5, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FIELD EFFECT,Silicon, Switch, Quality = Level 0,Rated Voltage = 30, Rated Power =2.5	1

No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
35	FDS6375	Transistor	Quantity = 1,Dissipated Power =0.1,Applied Voltage =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FIELD EFFECT,Silicon, Switch, Quality = Level 0,Rated Voltage = 20, Rated Power =2.5	1
36	FMMT618TA	Transistor	Quantity = 4,Dissipated Power =0.1,Applied Voltage =5, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = SILICON,NPN/PNP,> 0.6 and < 6.0 w, Quality = Level 0,Rated Voltage = 20, Rated Power =0.625	4
37	MMBT3904	Transistor	Quantity = 5,Dissipated Power =0.1,Applied Voltage =5, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = SILICON,NPN/PNP, <0.6 W, Quality = Level 0,Rated Voltage = 40, Rated Power =0.35	5
38	MV5439A	Opto-Electronic Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Single LED/LCD Segment, Quality = Level 0	1
39	150080VS75000	Opto-Electronic Device	Quantity = 6, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Single LED/LCD Segment, Quality = Level 0	6
140	CT2184LPST	Switch	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Rocker or Slide, Quality = Level 0	1
141	TL58XF160Q	Switch	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Pushbutton, Quality = Level 0	1
142	830000335	Crystal	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = QUARTZ CRYSTAL, Quality = Level 0	1
143	ECS-327MVATX-7-CN-TR	Crystal	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = CRYSTAL OSCILLATOR, Quartz Controlled, Quality = Level 0	1
144	AP2138N-1.8TRG1	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Voltage regulator linear, Quality = Level 0 , No of Transistors = 500-600	1
145	DRV8833PW	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Motor driver, Quality = Level 0 , No of Transistors = 500-600	1

Sl No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
3.146	MCP3221A5T-I/OTCT	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = ADC, Quality = Level 0 , No of Transistors = 500-600	1
3.147	TLV803ED29DBZR	IC-Analog Device	Quantity = 2, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Voltage monitor, Quality = Level 0 , No of Transistors = 500-600	2
3.148	TPS2042BDR	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Power switch, Quality = Level 0 , No of Transistors = 500-600	1
3.149	TPS22917DBVR	IC-Analog Device	Quantity = 2, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Power switch, Quality = Level 0 , No of Transistors = 500-600	2
3.150	TPS7A7401DSDR	IC-Analog Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Voltage regulator linear, Quality = Level 0 , No of Transistors = 500-600	1
3.151	74LVC1G14GVQ100,1	IC-Digital Device	Quantity = 2, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Techonogy = CMOS, No.of Gates/Range = 2000-4000 , Quality = Level 0	2
3.152	74LVC1G17DBVR	IC-Digital Device	Quantity = 2, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Techonogy = CMOS, No.of Gates/Range = 2000-4000 , Quality = Level 0	2
3.153	MCP9808T-E/MS	IC-Digital Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Techonogy = CMOS, No.of Gates/Range = 2000-4000 , Quality = Level 0	1
3.154	PCA9617ADPJ	IC-Digital Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Techonogy = CMOS, No.of Gates/Range = 2000-4000 , Quality = Level 0	1
3.155	PCF2129T-2,518	IC-Digital Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Techonogy = CMOS, No.of Gates/Range = 2000-4000 , Quality = Level 0	1
3.156	MAX33071EASA+	IC-Digital Device	Quantity = 2, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Techonogy = CMOS, No.of Gates/Range = 2000-4000 , Quality = Level 0	2
3.157	SN74LVC1G74DCU	IC-Digital Device	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Techonogy = CMOS, No.of Gates/Range = 2000-4000 , Quality = Level 0	1
3.158	TXB0108PWR	IC-Digital Device	Quantity = 2, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Techonogy = CMOS, No.of Gates/Range = 2000-4000 , Quality = Level 0	2

No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
59	AT24C02DSSHM-T	IC-Memory	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = ROM, Technology = CMOS, No.of Bits = 256*8 , Quality = Level 0	1
60	ATMEGA88PA-AN	IC-Microprocessor	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Techonogy = CMOS, Bus Width(In Bits) = 8 bit,Quality = Level 0	1
61	0685T2000-01	Miscellaneous Devices	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = FUSE, < 30A, Quality = Level 0	1
62	SF-1206S100-2	Miscellaneous Devices	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = FUSE, < 30A, Quality = Level 0	1
63	CR2032	Miscellaneous Devices	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = BATTERY,Lithium, Quality = Level 0	1
64	742792096	Other	Quantity = 6, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = < 0.5A, Quality = Level 0	6
65	742792022	Other	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = < 0.5A, Quality = Level 0	1
166	MMZ1608B221CTAH0	Other	Quantity = 5, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = < 0.2A, Quality = Level 0	5
167	SM51589PEL	Other	Quantity = 1, Environment = Ground Fixed Uncontrolled (Moderate),Temperature = 40	Device Type = 1Volt, < 10 mA, Quality = Level 0	1
4	*PCB MTX 809.1*				
.1	RMCF0603FT33K0	Resistor	Quantity = 2,Applied Power =0.005, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 33000, Rated Power =0.1	2
1.2	RMCF0603FT10K0	Resistor	Quantity = 3,Applied Power =0.002, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 10000, Rated Power =0.1	3

Sl No	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
4.3	CRCW06031K50FKEA	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 1500, Rated Power =0.1	1
4.4	CRCW060311K0FKEA	Resistor	Quantity = 1,Applied Power =0.003, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 11000, Rated Power =0.1	1
4.5	RMCF0603FT2K20	Resistor	Quantity = 1,Applied Power =0.001, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = FILM (Carbon, Oxide, Metal), Quality = Level 0,Resistance = 2200, Rated Power =0.1	1
4.6	KGM15ACG1H101J	Capacitor	Quantity = 1,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.0001, Rated Voltage =50	1
4.7	KGM15ACG1H101J	Capacitor	Quantity = 1,Applied Power =5, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.0001, Rated Voltage =50	1
4.8	UMK107BJ104KAHT	Capacitor	Quantity = 4,Applied Power =12, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 0.1, Rated Voltage =50	4
4.9	GRT31CC81E106KE01L	Capacitor	Quantity = 6,Applied Power =12, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 10, Rated Voltage =25	6
4.10	EMK316ABJ226KL-T	Capacitor	Quantity = 3,Applied Power =5, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22, Rated Voltage =16	3
4.11	EMK316ABJ226KL-T	Capacitor	Quantity = 3,Applied Power =3.3, Environment = Ground Fixed Uncontrolled (Limited),Temperature =40	Device Type = Fixed, Ceramic, Quality = Level 0,Capacitance = 22, Rated Voltage =16	3
4.12	P9102-40-12-1 (40X1)	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 4	1
4.13	P9102-40-12-1 (40X1)	Connector	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Multi-Pin, Quality = Level 0, No of Pins = 6	1
4.14	SMAJ15ALFCT	Diode	Quantity = 1,Operating Current(in Amps) =0.00001, Environment = Ground Fixed Uncontrolled (Moderate),Temperature =40	Device Type = TVS Surge Supressor, Quality = Level 0, Rated Current(in Amps) =16.4	1

lo	Part Number	Category Description	Application Parameters All	Physical Parameters All	Quantity
5	TPS566247 DRLR	IC-Analog Device	Quantity = 2, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = Linear voltage regulator, Quality = Level 0 , No of Transistors = 500-600	2
6	0685T3000-01	Miscellaneous Devices	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = 0685T3000-01, Quality = Level 0 , FUSE SLOW -C1T-3A-1206	1
17	ACM1211-102-2PL-TL01	Other	Quantity = 1, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = ACM1211-102-2PL-TL01, Quality = Level 0 , Max 1 A current	1
18	DD1217AS-H-4R7N=P3	Other	Quantity = 2, Environment = Ground Fixed Uncontrolled (Limited),Temperature = 40	Device Type = DD1217AS-H-4R7N=P3, Quality = Level 0 , max 3 A	2

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