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MTBF Prediction Report

for K18X001.00

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Revision Change History

Revision	Description of Change	Date
1.0	Initial Release	08/24/2021

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Reliability Prediction Summary

File Name: K18X001.00
System: System
Standard: Telcordia Issue 3
Method: Method I Case 3

Failure Rate:	678.478423 FITs
MTBF (hrs):	1,473,886
Temperature:	25
Environment:	GB, GC - Ground Benign, Controlled

Assembly Name	Part Number	Quantity	Failure Rate	MTBF
System	System	1	678.478423	1,473,886

File Name: K18X001.00
Assembly: System
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Failure Rate: 678.478423 FITs
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Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
001.01336.005	IC MPU 1.8~3.3V SMD LFBGA284 GP A113X	Integrated Circuit	Microprocessor	2.889332	1	5.618947
002.02152.005	IC PER 1.5/1.8/2.5/3.3V SMD QFN40 GP ETHERNET TRANSCEIVER RTL8211F-CG	Integrated Circuit	Logic, CGA or ASIC	0.659082	1	0.991380
002.02698.005	IC PER 3.3V SMD QFN28 GP USB 2.0 HUB CONTROLLER GL850G-OHY60	Integrated Circuit	Logic, CGA or ASIC	0.659082	1	0.991380
002.03055.005	IC PER 1.2~3.3V SMD QFN32 GP BLUETOOTH RTL8761BTVC-G	Integrated Circuit	Logic, CGA or ASIC	0.659082	1	0.991380
027.01230.005	IC REG 0.5~0.9V 2A SMD SON10 GP/HF TPS51206DSQR	Integrated Circuit	Linear	0.649131	1	1.262380
027.01455.005	IC REG 2.5V 500mA SMD SOT23-5 GP JSTLV75525PDBV	Integrated Circuit	Linear	0.649131	1	1.262380
027.01468.005	IC REG 1.8V 500mA SMD SOT25 GP/HF AP7366-18W5-7-76	Integrated Circuit	Linear	0.649131	1	1.262380
029.00604.005	IC DC-DC 2.3~5.5V SMD SOT563 GP MP1605GTF-Z	Integrated Circuit	Linear	0.649131	3	3.010078
029.00852.005	IC DC-DC 4.2~18V SMD SOT23-6 GP SY8120IABC	Integrated Circuit	Linear	0.649131	4	3.820246
029.00907.005	IC DC-DC 34V SMD QFN13 GP/HF MP2491CGQB-Z	Integrated Circuit	Linear	0.649131	1	1.262380
029.00909.005	IC DC-DC 6V SMD TSOT23-8 GP SY8824CAIC	Integrated Circuit	Linear	0.649131	2	2.168220
029.00944.005	IC DC-DC 4.5~28V SMD SOT583 GP MP2338GTL-Z	Integrated Circuit	Linear	0.649131	1	1.262380
030.00072.005	IC DSP 3.6V SMD QFN24 8~96KHz GP/HF TLV320ADC3101IRGET	Integrated Circuit	Linear	0.649131	1	1.262380
032.00021.005	IC TRANSLATOR 1.2~3.6V SMD US8 GP/HF TXB0102DCUR	Integrated Circuit	Linear	0.649131	1	1.262380
033.00298.015	IC SW 2.7~5.5V SMD SOT26 GP/HF AP2553W6-7	Integrated Circuit	Linear	0.649131	3	3.010078
036.00079.005	IC DRIVER 2.7~5.5V SMD VQFN32 GP LP5024RSMR TI	Integrated Circuit	Linear	0.649131	1	1.262380
036.00084.005	IC DRIVER 2.7~5.5V SMD VQFN46 GP LP5036RJVR	Integrated Circuit	Linear	0.649131	2	2.168220
038.00063.005	IC RESET 2.63V SMD SOT23-3 GP/HF FP6809-26CS3GTR	Integrated Circuit	Linear	0.649131	1	1.262380

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053.00423.005	IC DDR3 SDRAM 4Gb 1.35V 1.07nS SMD FBGA96 GP/HF H5TC4G63EFR-RDA	Integrated Circuit	Memory	1.472605	1	2.285836
053.00488.005	IC DDR4 SDRAM 8Gb 1.2V 0.75nS SMD FBGA96 GP H5AN8G6NCJR-VKC	Integrated Circuit	Memory	1.472605	2	4.087176
053.00495.005	IC DDR4 SDRAM 4Gb 1.5V 0.75nS SMD FBGA96 GP H5AN4G6NBJR-VKC	Integrated Circuit	Memory	1.472605	2	4.087176
063.00106.005	IC NAND FLASH 4Gb 2.7~3.6V 20nS SMD TSOP48 GP/HF MX30LF4G28AD-TI MXIC	Integrated Circuit	EEPROM	1.472605	1	2.285836
067.00140.005	IC eMMC 8GB 2.7~3.6V 5nS SMD FBGA153 GP/HF KLM8G1GETF-B041	Integrated Circuit	Memory	1.472605	1	2.285836
074.00117.005	IC GATE 1.2~3.6V SMD TSSOP14 GP 74LVC125APW	Integrated Circuit	Logic, CGA or ASIC	0.659082	3	2.545969
078.00034.015	IC DEMULTIPLEXER 1.65~5.5V SMD SC70-6 GP/HF NC7SB3157P6X	Integrated Circuit	Logic, CGA or ASIC	0.659082	1	0.991380
101.00007.015	TR NPN 40V 150mA SMD SOT23 GP	Semiconduct or	Transistor	1.174148	2	3.627511
104.00217.005	NFET 60V 300mA SMD SOT23-3 GP/HF	Semiconduct or	Si FET	7.296966	3	27.793956
104.00486.005	NFET 20V 230mA SMD SOT-523 GP/HF	Semiconduct or	Si FET	7.296966	2	19.435063
105.00216.005	PFET 30V 4.3A SMD SOT23 GP/HF	Semiconduct or	Si FET	7.296966	1	10.746346
112.00392.005	DIODE SBD 30V 200mA SMD SOD323 GP/HF	Semiconduct or	Diode	0.218909	2	0.727002
117.00057.005	DIODE TVS 26V 9.5A SMD SMA GP/HF	Semiconduct or	Diode	0.218909	1	0.422872
117.00135.005	DIODE TVS 6V 8A SMD SOD882 GP/HF	Semiconduct or	Diode	0.218909	4	1.282341
117.00194.005	DIODE TVS 5.3V 3A SMD SOD882 GP	Semiconduct or	Diode	0.218909	2	0.727002
117.00246.005	DIODE TVS 3.3V 3A SMD SLP0603P2X3F GP	Semiconduct or	Diode	0.218909	5	1.548166
117.00301.005	DIODE TVS 5V 15A SMD SOD323 GP	Semiconduct or	Diode	0.218909	4	1.282341
119.00128.005	DIODE ESD PROTECTION 6V 0.0025mA SMD DFN4120P10E GP/HF	Semiconduct or	Diode	0.218909	1	0.422872
119.00179.005	DIODE TVS ARRAY 9V 2A SMD DFN1004 GP	Semiconduct or	Diode	0.218909	5	1.548166

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123.00701.005	LED CHIP 28.5~72/112~285/14.5~ 36mcd R/G/B 616/515/460nm 4P SMD 1.6*1.6mm GP	Optical Device	Detector, Isolator, Emitter	0.067730	26	2.086210
123.00701.005	LED CHIP 28.5~72/112~285/14.5~ 36mcd R/G/B 616/515/460nm 4P SMD 1.6*1.6mm GP	Optical Device	Detector, Isolator, Emitter	0.067730	2	0.227911
123.00701.005	LED CHIP 28.5~72/112~285/14.5~ 36mcd R/G/B 616/515/460nm 4P SMD 1.6*1.6mm GP	Optical Device	Detector, Isolator, Emitter	0.067730	2	0.227911
130.01514.005	IND C 2.7nH 0.1nH 500mA 0.2ohm Q=14 SMD 0201 GP/HF	Inductor	Coil	0.083149	1	0.103017
132.00484.005	CHOKE 90ohm 20% 330mA 0.35ohm SMD GP/HF	Inductor	Coil	0.083149	2	0.194219
132.00803.005	IND WW 1uH 20% 2.8A 0.056ohm SMD GP/HF	Inductor	Coil	0.083149	3	0.283539
132.00979.005	IND WW 2.2uH 20% 2.5A 0.06ohm SMD GP/HF	Inductor	Coil	0.083149	2	0.194219
132.00980.025	IND WW 4.7uH 20% 5.5A 0.04ohm SMD GP/HF	Inductor	Coil	0.083149	1	0.103017
132.01397.005	IND WW 4.7uH 20% 2.8A 0.045ohm SMD GP/HF	Inductor	Coil	0.083149	1	0.103017
132.01506.005	IND WW 470nH 20% 7A 0.014ohm SMD GP	Inductor	Coil	0.083149	2	0.194219
132.01700.005	IND WW 2.2uH 20% 2A 0.105ohm SMD GP	Inductor	Coil	0.083149	1	0.103017
132.01739.005	IND WW 6.8uH 20% 3A 0.04ohm SMD GP/HF	Inductor	Coil	0.083149	1	0.103017
132.01857.005	IND WW 3.3uH 20% 2.5A 0.087ohm SMD GP/HF	Inductor	Coil	0.083149	1	0.103017
132.02195.005LT	IND PWR 10uH 20% 7.8A 0.03ohm SMD GP	Inductor	Coil	0.083149	8	0.719994
141.00756.005	XTAL 25MHz 7ppm 12pF 50ohm SMD GP 3.2*2.5mm - 40~+100DegC	Miscellaneous	Quartz Crystal	1.517255	1	3.314159
141.00842.015	XTAL 25MHz 10ppm 18pF 40ohm SMD GP 3.2*2.5mm - 40~+110DegC	Miscellaneous	Quartz Crystal	1.517255	1	3.314159
141.00880.015	XTAL 12MHz 10ppm 12pF 60ohm SMD GP 3.2*2.5mm - 40~+100DegC	Miscellaneous	Quartz Crystal	1.517255	1	3.314159

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141.00912.015	XTAL 24MHz 10ppm 12pF 30ohm SMD GP/HF 3.2*2.5mm - 40~+105DegC	Miscellaneous	Quartz Crystal	1.517255	1	3.314159
141.01062.005	XTAL 40MHz 10ppm 10pF 30ohm SMD GP/HF 3.2*2.5mm - 20~+100DegC	Miscellaneous	Quartz Crystal	1.517255	1	3.314159
151.00012.015	BEAD C 600ohm 25% 300mA 0.6ohm SMD 0402 GP/HF	Inductor	Coil	0.083149	6	0.546353
151.00044.015	BEAD C 120ohm 25% 500mA 0.25ohm SMD 0402 GP/HF	Inductor	Coil	0.083149	8	0.719994
151.00299.015	BEAD C 120ohm 25% 5A 0.02ohm SMD 0805 GP/HF	Inductor	Coil	0.083149	8	0.719994
151.00307.005	BEAD C 220ohm 25% 3A 0.04ohm SMD 0805 GP/HF	Inductor	Coil	0.083149	8	0.719994
151.00473.015	BEAD C 120ohm 25% 1.5A 0.095ohm SMD 0402 GP/HF	Inductor	Coil	0.083149	2	0.194219
151.00601.005	BEAD C 330ohm 25% 1.2A 0.15ohm SMD 0402 GP	Inductor	Coil	0.083149	12	1.064906
151.00650.005	BEAD C 60ohm 25% 1.5A 0.075ohm SMD 0402 GP	Inductor	Coil	0.083149	3	0.283539
155.00071.005	FILTER CMNF 50V 500mA SMD 0805 GP/HF	Filter	General	25.941000	6	155.646000
155.00089.005	FILTER CMNF 125V 6A SMD 12.5*10.8mm GP/HF	Filter	General	25.941000	1	25.941000
161.00135.005	FUSE 7A 32V - 55~+125DegC FAST SMD GP/HF 1206	Miscellaneous	Fuse	0.400000	1	0.654555
182.00083.005	SW TACT 50mA 12V SMD ST GP/HF	Switching Device	Toggle or Pushbutton	3.034509	8	30.839313
182.00154.005	SW TACT 50mA 12V SMD ST GP/HF	Switching Device	Toggle or Pushbutton	3.034509	2	9.399408
201.00003.015	CAP CER 100nF 10% 6.3V SMD 0201 GP/HF X5R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.091094	15	1.411620
201.00009.015	CAP CER 1nF 10% 16V SMD 0201 GP/HF X7R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.091094	75	6.933132
201.00023.025	CAP CER 470pF 10% 25V SMD 0201 GP/HF X7R 0.3mm	Capacitor	General Ceramic (CK, CKR)	0.091094	4	0.387723
201.00169.005	CAP CER 10nF 10% 10V SMD 0201 GP/HF X7R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.091094	45	4.177531

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201.00290.015	CAP CER 22pF 5% 50V SMD 0201 GP/HF NPO T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.091094	1	0.102768
201.00338.005	CAP CER 100nF 10% 10V SMD 0201 GP/HF X5R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.091094	84	7.758870
201.00338.005	CAP CER 100nF 10% 10V SMD 0201 GP/HF X5R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.091094	4	0.387723
201.00338.005	CAP CER 100nF 10% 10V SMD 0201 GP/HF X5R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.091094	1	0.102768
201.00338.005	CAP CER 100nF 10% 10V SMD 0201 GP/HF X5R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.091094	1	0.102768
201.00387.015	CAP CER 1uF 20% 6.3V SMD 0201 GP/HF X5R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.091094	1	0.102768
201.00462.015	CAP CER 0.5pF +-0.05pF 25V SMD 0201 GP/HF NPO T=0.3mm HI-Q	Capacitor	General Ceramic (CK, CKR)	0.091094	1	0.102768
201.00523.025	CAP CER 1.2pF +-0.1pF 50V SMD 0201 GP/HF NPO T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.091094	2	0.198697
202.00009.015	CAP CER 100nF 10% 16V SMD 0402 GP/HF X7R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	18	1.689217
202.00009.015	CAP CER 100nF 10% 16V SMD 0402 GP/HF X7R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	49	4.545312
202.00010.005	CAP CER 100nF 10% 16V SMD 0402 GP/HF X5R T=0.56mm	Capacitor	General Ceramic (CK, CKR)	0.091094	45	4.177531
202.00032.015	CAP CER 1nF 10% 16V SMD 0402 GP/HF X7R T=0.55mm	Capacitor	General Ceramic (CK, CKR)	0.091094	3	0.293501
202.00032.015	CAP CER 1nF 10% 16V SMD 0402 GP/HF X7R T=0.55mm	Capacitor	General Ceramic (CK, CKR)	0.091094	1	0.102768
202.00032.015	CAP CER 1nF 10% 16V SMD 0402 GP/HF X7R T=0.55mm	Capacitor	General Ceramic (CK, CKR)	0.091094	8	0.761769
202.00032.015	CAP CER 1nF 10% 16V SMD 0402 GP/HF X7R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	3	0.293501
202.00069.005	CAP CER 20pF 5% 50V SMD 0402 GP/HF NPO T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	1	0.102768
202.00071.005	CAP CER 2.2nF 10% 25V SMD 0402 GP/HF X7R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	1	0.102768

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202.00078.005	CAP CER 22nF 10% 16V SMD 0402 GP/HF X7R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	17	1.596727
202.00097.005	CAP CER 33pF 5% 50V SMD 0402 GP/HF NPO T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	10	0.947854
202.00099.005	CAP CER 39pF 5% 50V SMD 0402 GP/HF NPO T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	1	0.102768
202.01102.005	CAP CER 100nF 20% 10V SMD 0402 GP/HF X5R 0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	2	0.198697
202.01115.025	CAP CER 100pF 5% 50V SMD 0402 GP/HF NPO T=0.56mm	Capacitor	General Ceramic (CK, CKR)	0.091094	1	0.102768
202.01130.005	CAP CER 15pF 1% 50V SMD 0402 GP/HF NPO T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	2	0.198697
202.01139.025	CAP CER 47pF 5% 50V SMD 0402 GP/HF NPO T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	1	0.102768
202.01149.025	CAP CER 27pF 5% 50V SMD 0402 GP/HF NPO T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	7	0.668543
202.01149.025	CAP CER 27pF 5% 50V SMD 0402 GP/HF NPO T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	4	0.387723
202.01159.005	CAP CER 100nF 10% 10V SMD 0402 GP/HF X7R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	6	0.575158
202.01160.015	CAP CER 1uF 10% 10V SMD 0402 GP/HF X5R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	28	2.612399
202.01165.005	CAP CER 2.2uF 20% 6.3V SMD 0402 GP/HF X5R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	5	0.481573
202.01206.005	CAP CER 22pF 1% 50V SMD 0402 GP/HF NPO T=0.55mm	Capacitor	General Ceramic (CK, CKR)	0.091094	3	0.293501
202.01255.015	CAP CER 2.2pF +-0.05pF 50V SMD 0402 GP/HF NPO T=0.5mm HI-Q	Capacitor	General Ceramic (CK, CKR)	0.091094	1	0.102768
202.01338.015	CAP CER 2.2uF 20% 10V SMD 0402 GP/HF X5R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	1	0.102768
202.01365.005	CAP CER 1uF 10% 6.3V SMD 0402 GP/HF X7R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	22	2.058819
202.01372.005	CAP CER 18pF 1% 50V SMD 0402 GP/HF NPO T=0.5mm HI-Q	Capacitor	General Ceramic (CK, CKR)	0.091094	2	0.198697

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202.01414.005	CAP CER 4.7uF 10% 10V SMD 0402 GP/HF X5R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	15	1.411620
202.01414.005	CAP CER 4.7uF 10% 10V SMD 0402 GP/HF X5R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	1	0.102768
202.01435.015	CAP CER 1uF 10% 10V SMD 0402 GP/HF X6S T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	2	0.198697
203.00002.G05	CAP CER 100nF 10% 50V SMD 0603 GP/HF X7R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.091094	3	0.293501
203.00013.005	CAP CER 100nF 10% 50V SMD 0603 GP/HF X7R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.091094	10	0.947854
203.00039.005	CAP CER 120pF 5% 50V SMD 0603 GP/HF NPO T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.091094	8	0.761769
203.00092.005	CAP CER 270pF 5% 50V SMD 0603 GP/HF NPO T=0.9mm	Capacitor	General Ceramic (CK, CKR)	0.091094	16	1.504196
203.00113.005	CAP CER 4.7nF 10% 50V SMD 0603 GP/HF X7R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.091094	1	0.102768
203.00115.005	CAP CER 470pF 10% 50V SMD 0603 GP/HF X7R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.091094	4	0.387723
203.00919.005	CAP CER 10uF 20% 6.3V SMD 0603 GP/HF X5R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.091094	7	0.668543
203.00927.015	CAP CER 1uF 10% 10V SMD 0603 GP/HF X7R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.091094	13	1.226310
203.00931.005	CAP CER 1uF 10% 16V SMD 0603 GP/HF X7R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.091094	16	1.504196
203.01005.005	CAP CER 10uF 20% 10V SMD 0603 GP/HF X5R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.091094	6	0.575158
205.00502.005	CAP CER 10uF 10% 50V SMD 1210 GP/HF X7R T=2.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	3	0.293501
205.00502.005	CAP CER 10uF 10% 50V SMD 1210 GP/HF X7R T=2.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	2	0.198697
207.00002.G05	CAP CER 22uF 20% 6.3V SMD 0603 GP/HF X5R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.091094	5	0.481573
207.00023.005	CAP CER 10uF 10% 6.3V SMD 0805 GP/HF X7R T=1.25mm	Capacitor	General Ceramic (CK, CKR)	0.091094	2	0.198697

File Name: K18X001.00
Assembly: System
Standard: Telcordia Issue 3
Method: Method I Case 3

Failure Rate: 678.478423 FITs
MTBF (hrs): 1,473,886
Temperature: 25
Environment: GB, GC - Ground Benign, Controlled

Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
207.00042.005	CAP CER 10uF 20% 6.3V SMD 0402 GP/HF X5R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	20	1.874083
207.00043.005	CAP CER 22uF 20% 10V SMD 0805 GP/HF X5R T=1.25mm	Capacitor	General Ceramic (CK, CKR)	0.091094	14	1.318993
207.00058.005	CAP CER 22uF 20% 16V SMD 0805 GP/HF X5R T=1.25mm	Capacitor	General Ceramic (CK, CKR)	0.091094	6	0.575158
207.00060.005	CAP CER 22uF 20% 10V SMD 0603 GP/HF X5R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.091094	6	0.575158
207.00064.005	CAP CER 10uF 10% 25V SMD 0805 GP/HF X5R T=1.25mm	Capacitor	General Ceramic (CK, CKR)	0.091094	1	0.102768
207.00076.005	CAP CER 10uF 20% 6.3V SMD 0603 GP/HF X6S T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.091094	11	1.040750
207.00080.005	CAP CER 1uF 10% 25V SMD 0402 GP/HF X5R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.091094	7	0.668543
207.00114.005	CAP CER 1uF 10% 50V SMD 0603 GP/HF X5R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.091094	4	0.387723
207.00114.005	CAP CER 1uF 10% 50V SMD 0603 GP/HF X5R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.091094	9	0.854866
207.00128.005	CAP CER 1uF 20% 10V SMD 0201 GP/HF X5R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.091094	11	1.040750
207.00128.005	CAP CER 1uF 20% 10V SMD 0201 GP/HF X5R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.091094	1	0.102768
207.00128.005	CAP CER 1uF 20% 10V SMD 0201 GP/HF X5R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.091094	2	0.198697
207.00128.005	CAP CER 1uF 20% 10V SMD 0201 GP/HF X5R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.091094	2	0.198697
207.00156.005	CAP CER 20pF 1% 50V SMD 0402 GP/HF NPO T=0.5mm HI-Q	Capacitor	General Ceramic (CK, CKR)	0.091094	2	0.198697
207.00171.005	CAP CER 4.7uF 10% 6.3V SMD 0603 GP/HF X6S T=0.85mm	Capacitor	General Ceramic (CK, CKR)	0.091094	1	0.102768
207.00178.005	CAP CER 10uF 20% 16V SMD 0603 GP/HF X6S T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.091094	3	0.293501
207.00179.005	CAP CER 10uF 10% 50V SMD 1206 GP/HF X5R T=1.6mm	Capacitor	General Ceramic (CK, CKR)	0.091094	8	0.761769

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Failure Rate: 678.478423 FITs
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Environment: GB, GC - Ground Benign, Controlled

Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
250.00005.005	RES C SMD 0201 22ohm 5% GP/HF 1/20W	Resistor	Composition (RC, RCR)	0.093690	15	1.749916
250.00114.005	RES C SMD 0201 0ohm JUMPER GP/HF 1/20W	Resistor	Composition (RC, RCR)	0.093690	18	2.063193
250.00118.015	RES C SMD 0201 10Kohm 5% GP/HF 1/20W	Resistor	Composition (RC, RCR)	0.093690	6	0.782246
250.00123.005	RES C SMD 0201 47Kohm 5% GP/HF 1/20W	Resistor	Composition (RC, RCR)	0.093690	13	1.539215
250.00154.035	RES C SMD 0201 100ohm 5% GP/HF 1/20W	Resistor	Composition (RC, RCR)	0.093690	1	0.184041
250.00202.005	RES C SMD 0201 4.7Kohm 5% GP/HF 1/20W	Resistor	Composition (RC, RCR)	0.093690	13	1.539215
251.00003.005	RES C SMD 0402 100Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	5	0.669783
251.00003.005	RES C SMD 0402 100Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	1	0.184041
251.00004.005	RES C SMD 0402 100ohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	1	0.184041
251.00004.005	RES C SMD 0402 100ohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	28	3.091361
251.00005.005	RES C SMD 0402 10Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	29	3.193195
251.00005.005	RES C SMD 0402 10Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	3	0.437806
251.00005.005	RES C SMD 0402 10Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	5	0.669783
251.00011.015	RES C SMD 0402 1Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	7	0.893161
251.00021.005	RES C SMD 0402 22ohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	20	2.270555
251.00034.005	RES C SMD 0402 470ohm 5% GP/HF	Resistor	Composition (RC, RCR)	0.093690	2	0.315664
251.00042.005	RES C SMD 0402 820ohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	2	0.315664
251.00652.015	RES C SMD 0402 2Kohm 5% GP/HF	Resistor	Composition (RC, RCR)	0.093690	1	0.184041
251.00654.005	RES C SMD 0402 200ohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	2	0.315664
251.00656.035	RES C SMD 0402 4.7Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	35	3.801486
251.00656.035	RES C SMD 0402 4.7Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	1	0.184041
251.00656.035	RES C SMD 0402 4.7Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	8	1.002859
251.00656.035	RES C SMD 0402 4.7Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	13	1.539215
251.00657.015	RES C SMD 0402 33ohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	11	1.326617

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Failure Rate: 678.478423 FITs
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Environment: GB, GC - Ground Benign, Controlled

Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
251.00670.005	RES C SMD 0402 4.7ohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	1	0.184041
251.00675.015	RES C SMD 0402 1.5Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	4	0.555261
251.00678.005	RES C SMD 0402 510ohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	2	0.315664
251.00681.025	RES C SMD 0402 0ohm 5% GP/HF	Resistor	Composition (RC, RCR)	0.093690	99	10.138106
251.00681.025	RES C SMD 0402 0ohm JUMPER GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	10	1.219442
251.00681.025	RES C SMD 0402 0ohm JUMPER GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	6	0.782246
251.00681.025	RES C SMD 0402 0ohm JUMPER GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	1	0.184041
251.00681.025	RES C SMD 0402 0ohm JUMPER GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	7	0.893161
251.00681.025	RES C SMD 0402 0ohm JUMPER GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	1	0.184041
251.00682.065	RES C SMD 0402 47Kohm 5% GP/HF	Resistor	Composition (RC, RCR)	0.093690	7	0.893161
251.00682.065	RES C SMD 0402 47Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	1	0.184041
251.00694.005	RES C SMD 0402 330ohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	1	0.184041
251.00767.005	RES C SMD 0402 240ohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	2	0.315664
252.00251.025	RES C SMD 0603 0ohm 5% GP/HF	Resistor	Composition (RC, RCR)	0.093690	5	0.669783
252.00251.025	RES C SMD 0603 0ohm JUMPER GP/HF 1/10W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	18	1.170699
252.00251.025	RES C SMD 0603 0ohm JUMPER GP/HF 1/10W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	10	0.665990
252.00251.025	RES C SMD 0603 0ohm JUMPER GP/HF 1/10W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	3	0.215679
252.00251.025	RES C SMD 0603 0ohm JUMPER GP/HF 1/10W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	3	0.215679
253.00303.025	RES C SMD 0805 0ohm JUMPER GP/HF 1/8W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
260.00034.005	RES C SMD 0201 1Kohm 1% GP/HF 1/20W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
260.00043.005	RES C SMD 0201 49.9ohm 1% GP/HF 1/20W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	25	1.608677
260.00045.005	RES C SMD 0201 100Kohm 1% GP/HF 1/20W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
260.00077.015	RES C SMD 0201 240ohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	4	0.281357
260.00089.005	RES C SMD 0201 150ohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475

File Name: K18X001.00
Assembly: System
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Method: Method I Case 3

Failure Rate: 678.478423 FITs
MTBF (hrs): 1,473,886
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Environment: GB, GC - Ground Benign, Controlled

Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
260.00128.005	RES C SMD 0201 2.2ohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	8	0.538577
260.00158.005	RES C SMD 0201 120ohm 1% GP/HF 1/20W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.00009.005	RES C SMD 0402 121Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.00015.005	RES C SMD 0402 162Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.00023.005	RES C SMD 0402 200ohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.00026.005	RES C SMD 0402 22ohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.00029.005	RES C SMD 0402 24Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.00032.005	RES C SMD 0402 2Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	2	0.149025
261.00038.005	RES C SMD 0402 301ohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	8	0.538577
261.00039.005	RES C SMD 0402 30Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.00831.005	RES C SMD 0402 20Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.00835.035	RES C SMD 0402 1Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	2	0.149025
261.00839.005	RES C SMD 0402 10Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	3	0.215679
261.00840.035	RES C SMD 0402 100Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.00840.035	RES C SMD 0402 100Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	3	0.215679
261.00848.015	RES C SMD 0402 200Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	7	0.474566
261.00851.005	RES C SMD 0402 300Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.00869.005	RES C SMD 0402 40.2Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.00876.005	RES C SMD 0402 5.1ohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	4	0.281357
261.00879.005	RES C SMD 0402 44.2Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.00881.005	RES C SMD 0402 80.6Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.00897.005	RES C SMD 0402 680ohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475

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Failure Rate: 678.478423 FITs
MTBF (hrs): 1,473,886
Temperature: 25
Environment: GB, GC - Ground Benign, Controlled

Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
261.00900.005	RES C SMD 0402 22.1Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.00900.005	RES C SMD 0402 22.1Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.00913.005	RES C SMD 0402 120Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	3	0.215679
261.00918.005	RES C SMD 0402 4.99Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.00923.005	RES C SMD 0402 2.49Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.00926.005	RES C SMD 0402 6.04Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.00935.015	RES C SMD 0402 1Mohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.00935.015	RES C SMD 0402 1Mohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.00968.005	RES C SMD 0402 75Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.00970.005	RES C SMD 0402 3.9Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	2	0.149025
261.00974.025	RES C SMD 0402 49.9Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.01031.005	RES C SMD 0402 470Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.01095.005	RES C SMD 0402 240ohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	2	0.149025
261.01097.005	RES C SMD 0402 47Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.01159.005	RES C SMD 0402 95.3Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.01185.005	RES C SMD 0402 1.2Mohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.01354.005	RES C SMD 0402 27Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.01363.005	RES C SMD 0402 360Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
261.01389.005	RES C SMD 0402 29.4Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	3	0.215679
261.01436.005	RES C SMD 0402 210Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475

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Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
262.00185.005	RES C SMD 0603 4.7Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	8	0.538577
262.00212.015	RES C SMD 0603 49.9ohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	8	0.538577
262.01483.015	RES C SMD 0603 10Kohm 1% GP/HF 1/10W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	1	0.080475
262.02115.005	RES C SMD 0603 100Kohm 0.5% GP/HF 1/10W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	2	0.149025
263.01134.005	RES C SMD 0805 6.8ohm 1% GP/HF 1/8W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.060472	16	1.045053
270.00002.005	RES NET 8P4R 2.0*1.0mm 4.7Kohm 5% SEP SMD GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.093690	2	0.315664
286.00057.005	THERMISTOR NTC 2.5ohm 20% 2.4W DIP P=5mm GP/HF	Resistor	Thermistor (RTH)	0.995698	1	1.945731
308.03523.135	PCB 8L OSP REV.125 4PCS GP 75*266.5mm K18X001T00	Connection	PCB Edge	2.465539	1	4.698426
308.03524.055	PCB 4L OSP REV.025 2PCS GP 75*117mm 96.1531T00	Connection	PCB Edge	2.465539	1	4.698426
308.03581.055	PCB 4L OSP REV.055 2PCS GP 37*202mm 96.1515T00	Connection	PCB Edge	2.465539	1	4.698426
308.03582.055	PCB 4L OSP REV.055 2PCS GP 16*160mm 96.1517T00	Connection	PCB Edge	2.465539	1	4.698426
308.03583.055	PCB 4L OSP REV.055 2PCS GP 30*40mm 96.1520T00	Connection	PCB Edge	2.465539	1	4.698426
308.03584.055	PCB 4L OSP REV.055 2PCS GP 12*140mm 96.1516T00	Connection	PCB Edge	2.465539	1	4.698426
308.03648.055	PCB 4L OSP REV.055 2PCS GP 30*40mm 96.1540T00	Connection	PCB Edge	2.465539	1	4.698426
334.00060.005	CONN MAGJACK 10/10/1000 10P8C 50u"GOLD 1*1PORT W/LED Y/G 2.54mm SMD F RT GP	Connection	General	2.086225	1	3.612102
335.00692.005	CONN MICRO USB 1*1PORT 0.65mm SMD F RT GP	Connection	General	2.086225	1	3.612102
341.00009.005	HEADER PIN 1*5P 2.54mm DIP MALE ST GP	Connection	General	2.086225	1	3.612102
341.00400.015	HEADER PIN 2*4P 2.0mm DIP MALE ST GP/HF	Connection	General	2.086225	1	3.612102

File Name: K18X001.00
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Failure Rate: 678.478423 FITs
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Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
341.00485.005	HEADER RF 1*1PORT 0.45mm SMD MALE ST GP/HF	Connection	General	2.086225	1	3.612102
342.00730.005	CONN USB 3.0 A 1*1 PORT 2mm DIP FEMALE RT GP/HF	Connection	General	2.086225	1	3.612102
342.01036.005	CONN HDMI A 19PIN 1*1PORT 0.5mm SMD MALE RT GP	Connection	General	2.086225	1	3.612102
342.01067.005	CONN AUDIO JACK 1*1PORT 1~3u"GOLD D=3.6mm SMD FEMALE RT GP BLACK	Connection	General	2.086225	2	6.321678
342.01374.005	CONN USB 4P 30u"GOLD 1*1PORT 2mm DIP FEMALE RT GP	Connection	General	2.086225	1	3.612102
343.01038.005	CONN WTB 2P 3.96mm DIP MALE ST GP	Connection	General	2.086225	2	6.321678
343.01595.005	CONN WTB 2P 3.96mm DIP MALE RA GP	Connection	General	2.086225	1	3.612102
343.01663.005	CONN WTB 1*4PIN P=2.5mm DIP MALE RT	Connection	General	2.086225	2	6.321678
344.00248.005	CONN PWR JACK 1*1PORT D=1.2/5.9mm DIP FEMALE RT GP 24V 5A	Connection	General	2.086225	1	3.612102
345.00467.005	CONN FFC 15P 0.5mm SMD FEMALE RT GP	Connection	General	2.086225	1	3.612102
345.00467.005	CONN FFC 15PIN P=0.5mm SMD FEMALE RT GP	Connection	General	2.086225	1	3.612102
345.00467.005	CONN FFC 15PIN P=0.5mm SMD FEMALE RT GP	Connection	General	2.086225	1	3.612102
345.00467.005	CONN FFC 15PIN P=0.5mm SMD FEMALE RT GP	Connection	General	2.086225	1	3.612102
345.00470.005	CONN FFC 15P 0.5mm SMD FEMALE RT GP	Connection	General	2.086225	3	8.879929
345.00470.005	CONN FFC 15P 0.5mm SMD FEMALE RT GP	Connection	General	2.086225	3	8.879929
345.00470.005	CONN FFC 15P 0.5mm SMD FEMALE RT GP	Connection	General	2.086225	1	3.612102
345.00470.005	CONN FFC 15P 0.5mm SMD FEMALE RT GP	Connection	General	2.086225	1	3.612102
620.05156.005	IC AMP 5~28V SMD QFN40 GP WA20-6829B	Integrated Circuit	Linear	0.649131	4	3.820246
JSCLZ35VC100MH	CAP AL 100uF 20% 35V 125C 5KH SMD 10*8mm GP	Capacitor	Lead Mount, Elec, Alum (CE)	6.637989	4	32.526742

File Name: K18X001.00
Assembly: System
Standard: Telcordia Issue 3
Method: Method I Case 3

Failure Rate: 678.478423 FITs
MTBF (hrs): 1,473,886
Temperature: 25
Environment: GB, GC - Ground Benign, Controlled

Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
JSCX2081011Z	IC PER 3~5.5V SMD QFN48 GP ADC CX20810-11Z	Integrated Circuit	Linear	0.649131	1	1.262380
JSIT66318FN00	IC PER 3.3V SMD QFN40 GP HDMI 2.0 IT66318FN/EW	Integrated Circuit	Linear	0.649131	1	1.262380
JSSPM0687LR5H	MICROPHONE 2.3~3.6V 0.365mA 40+-1dB GP SPM0687LR5H-1	Inductor	Coil	0.083149	4	0.371346
JSTSOP75338TT	IR RECEIVER 38KHz SMD SMD4 GP TSOP75338TT	Optical Device	Receiver Module	71.121305	1	146.737435
JSVS550A1BWM00	IC PER 1.8/2.5/3.3V SMD BGA463 GP SOC VS-550A1-BWM000-T191T	Integrated Circuit	Linear	0.649131	1	1.262380

Reliability Prediction Summary

File Name: K18X001.00
System: System
Standard: Telcordia Issue 3
Method: Method I Case 3

Failure Rate:	1628.570092 FITs
MTBF (hrs):	614,036
Temperature:	50
Environment:	GB, GC - Ground Benign, Controlled

Assembly Name	Part Number	Quantity	Failure Rate	MTBF
System	System	1	1628.570092	614,036

File Name: K18X001.00
Assembly: System
Standard: Telcordia Issue 3
Method: Method I Case 3

Failure Rate: 1628.570092 FITs
MTBF (hrs): 614,036
Temperature: 50
Environment: GB, GC - Ground Benign, Controlled

Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
001.01336.005	IC MPU 1.8~3.3V SMD LFBGA284 GP A113X	Integrated Circuit	Microprocessor	8.294655	1	16.130798
002.02152.005	IC PER 1.5/1.8/2.5/3.3V SMD QFN40 GP ETHERNET TRANSCEIVER RTL8211F-CG	Integrated Circuit	Logic, CGA or ASIC	1.892084	1	2.846040
002.02698.005	IC PER 3.3V SMD QFN28 GP USB 2.0 HUB CONTROLLER GL850G-OHY60	Integrated Circuit	Logic, CGA or ASIC	1.892084	1	2.846040
002.03055.005	IC PER 1.2~3.3V SMD QFN32 GP BLUETOOTH RTL8761BTV-CG	Integrated Circuit	Logic, CGA or ASIC	1.892084	1	2.846040
027.01230.005	IC REG 0.5~0.9V 2A SMD SON10 GP/HF TPS51206DSQR	Integrated Circuit	Linear	3.508601	1	6.823254
027.01455.005	IC REG 2.5V 500mA SMD SOT23-5 GP JSTLV75525PDBV	Integrated Circuit	Linear	3.508601	1	6.823254
027.01468.005	IC REG 1.8V 500mA SMD SOT25 GP/HF AP7366-18W5-7-76	Integrated Circuit	Linear	3.508601	1	6.823254
029.00604.005	IC DC-DC 2.3~5.5V SMD SOT563 GP MP1605GTF-Z	Integrated Circuit	Linear	3.508601	3	16.269683
029.00852.005	IC DC-DC 4.2~18V SMD SOT23-6 GP SY8120IABC	Integrated Circuit	Linear	3.508601	4	20.648702
029.00907.005	IC DC-DC 34V SMD QFN13 GP/HF MP2491CGQB-Z	Integrated Circuit	Linear	3.508601	1	6.823254
029.00909.005	IC DC-DC 6V SMD TSOT23-8 GP SY8824CAIC	Integrated Circuit	Linear	3.508601	2	11.719386
029.00944.005	IC DC-DC 4.5~28V SMD SOT583 GP MP2338GTL-Z	Integrated Circuit	Linear	3.508601	1	6.823254
030.00072.005	IC DSP 3.6V SMD QFN24 8~96KHz GP/HF TLV320ADC3101IRGET	Integrated Circuit	Linear	3.508601	1	6.823254
032.00021.005	IC TRANSLATOR 1.2~3.6V SMD US8 GP/HF TXB0102DCUR	Integrated Circuit	Linear	3.508601	1	6.823254
033.00298.015	IC SW 2.7~5.5V SMD SOT26 GP/HF AP2553W6-7	Integrated Circuit	Linear	3.508601	3	16.269683
036.00079.005	IC DRIVER 2.7~5.5V SMD VQFN32 GP LP5024RSMR TI	Integrated Circuit	Linear	3.508601	1	6.823254
036.00084.005	IC DRIVER 2.7~5.5V SMD VQFN46 GP LP5036RJVR	Integrated Circuit	Linear	3.508601	2	11.719386
038.00063.005	IC RESET 2.63V SMD SOT23-3 GP/HF FP6809-26CS3GTR	Integrated Circuit	Linear	3.508601	1	6.823254

File Name: K18X001.00
Assembly: System
Standard: Telcordia Issue 3
Method: Method I Case 3

Failure Rate: 1628.570092 FITs
MTBF (hrs): 614,036
Temperature: 50
Environment: GB, GC - Ground Benign, Controlled

Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
053.00423.005	IC DDR3 SDRAM 4Gb 1.35V 1.07nS SMD FBGA96 GP/HF H5TC4G63EFR-RDA	Integrated Circuit	Memory	4.227533	1	6.562146
053.00488.005	IC DDR4 SDRAM 8Gb 1.2V 0.75nS SMD FBGA96 GP H5AN8G6NCJR-VKC	Integrated Circuit	Memory	4.227533	2	11.733410
053.00495.005	IC DDR4 SDRAM 4Gb 1.5V 0.75nS SMD FBGA96 GP H5AN4G6NBJR-VKC	Integrated Circuit	Memory	4.227533	2	11.733410
063.00106.005	IC NAND FLASH 4Gb 2.7~3.6V 20nS SMD TSOP48 GP/HF MX30LF4G28AD-TI MXIC	Integrated Circuit	EEPROM	4.227533	1	6.562146
067.00140.005	IC eMMC 8GB 2.7~3.6V 5nS SMD FBGA153 GP/HF KLM8G1GETF-B041	Integrated Circuit	Memory	4.227533	1	6.562146
074.00117.005	IC GATE 1.2~3.6V SMD TSSOP14 GP 74LVC125APW	Integrated Circuit	Logic, CGA or ASIC	1.892084	3	7.308935
078.00034.015	IC DEMULTIPLEXER 1.65~5.5V SMD SC70-6 GP/HF NC7SB3157P6X	Integrated Circuit	Logic, CGA or ASIC	1.892084	1	2.846040
101.00007.015	TR NPN 40V 150mA SMD SOT23 GP	Semiconduct or	Transistor	2.278291	2	7.038741
104.00217.005	NFET 60V 300mA SMD SOT23-3 GP/HF	Semiconduct or	Si FET	14.158870	3	53.930771
104.00486.005	NFET 20V 230mA SMD SOT-523 GP/HF	Semiconduct or	Si FET	14.158870	2	37.711362
105.00216.005	PFET 30V 4.3A SMD SOT23 GP/HF	Semiconduct or	Si FET	14.158870	1	20.851969
112.00392.005	DIODE SBD 30V 200mA SMD SOD323 GP/HF	Semiconduct or	Diode	0.424766	2	1.410658
117.00057.005	DIODE TVS 26V 9.5A SMD SMA GP/HF	Semiconduct or	Diode	0.424766	1	0.820532
117.00135.005	DIODE TVS 6V 8A SMD SOD882 GP/HF	Semiconduct or	Diode	0.424766	4	2.488226
117.00194.005	DIODE TVS 5.3V 3A SMD SOD882 GP	Semiconduct or	Diode	0.424766	2	1.410658
117.00246.005	DIODE TVS 3.3V 3A SMD SLP0603P2X3F GP	Semiconduct or	Diode	0.424766	5	3.004026
117.00301.005	DIODE TVS 5V 15A SMD SOD323 GP	Semiconduct or	Diode	0.424766	4	2.488226
119.00128.005	DIODE ESD PROTECTION 6V 0.0025mA SMD DFN4120P10E GP/HF	Semiconduct or	Diode	0.424766	1	0.820532
119.00179.005	DIODE TVS ARRAY 9V 2A SMD DFN1004 GP	Semiconduct or	Diode	0.424766	5	3.004026

File Name: K18X001.00
Assembly: System
Standard: Telcordia Issue 3
Method: Method I Case 3

Failure Rate: 1628.570092 FITs
MTBF (hrs): 614,036
Temperature: 50
Environment: GB, GC - Ground Benign, Controlled

Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
123.00701.005	LED CHIP 28.5~72/112~285/14.5~ 36mcd R/G/B 616/515/460nm 4P SMD 1.6*1.6mm GP	Optical Device	Detector, Isolator, Emitter	0.558189	26	17.193321
123.00701.005	LED CHIP 28.5~72/112~285/14.5~ 36mcd R/G/B 616/515/460nm 4P SMD 1.6*1.6mm GP	Optical Device	Detector, Isolator, Emitter	0.558189	2	1.878309
123.00701.005	LED CHIP 28.5~72/112~285/14.5~ 36mcd R/G/B 616/515/460nm 4P SMD 1.6*1.6mm GP	Optical Device	Detector, Isolator, Emitter	0.558189	2	1.878309
130.01514.005	IND C 2.7nH 0.1nH 500mA 0.2ohm Q=14 SMD 0201 GP/HF	Inductor	Coil	0.130661	1	0.161880
132.00484.005	CHOKE 90ohm 20% 330mA 0.35ohm SMD GP/HF	Inductor	Coil	0.130661	2	0.305196
132.00803.005	IND WW 1uH 20% 2.8A 0.056ohm SMD GP/HF	Inductor	Coil	0.130661	3	0.445552
132.00979.005	IND WW 2.2uH 20% 2.5A 0.06ohm SMD GP/HF	Inductor	Coil	0.130661	2	0.305196
132.00980.025	IND WW 4.7uH 20% 5.5A 0.04ohm SMD GP/HF	Inductor	Coil	0.130661	1	0.161880
132.01397.005	IND WW 4.7uH 20% 2.8A 0.045ohm SMD GP/HF	Inductor	Coil	0.130661	1	0.161880
132.01506.005	IND WW 470nH 20% 7A 0.014ohm SMD GP	Inductor	Coil	0.130661	2	0.305196
132.01700.005	IND WW 2.2uH 20% 2A 0.105ohm SMD GP	Inductor	Coil	0.130661	1	0.161880
132.01739.005	IND WW 6.8uH 20% 3A 0.04ohm SMD GP/HF	Inductor	Coil	0.130661	1	0.161880
132.01857.005	IND WW 3.3uH 20% 2.5A 0.087ohm SMD GP/HF	Inductor	Coil	0.130661	1	0.161880
132.02195.005LT	IND PWR 10uH 20% 7.8A 0.03ohm SMD GP	Inductor	Coil	0.130661	8	1.131396
141.00756.005	XTAL 25MHz 7ppm 12pF 50ohm SMD GP 3.2*2.5mm - 40~+100DegC	Miscellaneous	Quartz Crystal	5.063934	1	11.061216
141.00842.015	XTAL 25MHz 10ppm 18pF 40ohm SMD GP 3.2*2.5mm - 40~+110DegC	Miscellaneous	Quartz Crystal	5.063934	1	11.061216
141.00880.015	XTAL 12MHz 10ppm 12pF 60ohm SMD GP 3.2*2.5mm - 40~+100DegC	Miscellaneous	Quartz Crystal	5.063934	1	11.061216

File Name: K18X001.00
Assembly: System
Standard: Telcordia Issue 3
Method: Method I Case 3

Failure Rate: 1628.570092 FITs
MTBF (hrs): 614,036
Temperature: 50
Environment: GB, GC - Ground Benign, Controlled

Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
141.00912.015	XTAL 24MHz 10ppm 12pF 30ohm SMD GP/HF 3.2*2.5mm - 40~+105DegC	Miscellaneous	Quartz Crystal	5.063934	1	11.061216
141.01062.005	XTAL 40MHz 10ppm 10pF 30ohm SMD GP/HF 3.2*2.5mm - 20~+100DegC	Miscellaneous	Quartz Crystal	5.063934	1	11.061216
151.00012.015	BEAD C 600ohm 25% 300mA 0.6ohm SMD 0402 GP/HF	Inductor	Coil	0.130661	6	0.858538
151.00044.015	BEAD C 120ohm 25% 500mA 0.25ohm SMD 0402 GP/HF	Inductor	Coil	0.130661	8	1.131396
151.00299.015	BEAD C 120ohm 25% 5A 0.02ohm SMD 0805 GP/HF	Inductor	Coil	0.130661	8	1.131396
151.00307.005	BEAD C 220ohm 25% 3A 0.04ohm SMD 0805 GP/HF	Inductor	Coil	0.130661	8	1.131396
151.00473.015	BEAD C 120ohm 25% 1.5A 0.095ohm SMD 0402 GP/HF	Inductor	Coil	0.130661	2	0.305196
151.00601.005	BEAD C 330ohm 25% 1.2A 0.15ohm SMD 0402 GP	Inductor	Coil	0.130661	12	1.673392
151.00650.005	BEAD C 60ohm 25% 1.5A 0.075ohm SMD 0402 GP	Inductor	Coil	0.130661	3	0.445552
155.00071.005	FILTER CMNF 50V 500mA SMD 0805 GP/HF	Filter	General	25.941000	6	155.646000
155.00089.005	FILTER CMNF 125V 6A SMD 12.5*10.8mm GP/HF	Filter	General	25.941000	1	25.941000
161.00135.005	FUSE 7A 32V - 55~+125DegC FAST SMD GP/HF 1206	Miscellaneous	Fuse	0.400000	1	0.654555
182.00083.005	SW TACT 50mA 12V SMD ST GP/HF	Switching Device	Toggle or Pushbutton	10.127867	8	102.928173
182.00154.005	SW TACT 50mA 12V SMD ST GP/HF	Switching Device	Toggle or Pushbutton	10.127867	2	31.371124
201.00003.015	CAP CER 100nF 10% 6.3V SMD 0201 GP/HF X5R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.105905	15	1.641143
201.00009.015	CAP CER 1nF 10% 16V SMD 0201 GP/HF X7R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.105905	75	8.060429
201.00023.025	CAP CER 470pF 10% 25V SMD 0201 GP/HF X7R 0.3mm	Capacitor	General Ceramic (CK, CKR)	0.105905	4	0.450765
201.00169.005	CAP CER 10nF 10% 10V SMD 0201 GP/HF X7R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.105905	45	4.856779

File Name: K18X001.00
Assembly: System
Standard: Telcordia Issue 3
Method: Method I Case 3

Failure Rate: 1628.570092 FITs
MTBF (hrs): 614,036
Temperature: 50
Environment: GB, GC - Ground Benign, Controlled

Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
201.00290.015	CAP CER 22pF 5% 50V SMD 0201 GP/HF NPO T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.105905	1	0.119477
201.00338.005	CAP CER 100nF 10% 10V SMD 0201 GP/HF X5R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.105905	84	9.020428
201.00338.005	CAP CER 100nF 10% 10V SMD 0201 GP/HF X5R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.105905	4	0.450765
201.00338.005	CAP CER 100nF 10% 10V SMD 0201 GP/HF X5R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.105905	1	0.119477
201.00338.005	CAP CER 100nF 10% 10V SMD 0201 GP/HF X5R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.105905	1	0.119477
201.00387.015	CAP CER 1uF 20% 6.3V SMD 0201 GP/HF X5R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.105905	1	0.119477
201.00462.015	CAP CER 0.5pF +-0.05pF 25V SMD 0201 GP/HF NPO T=0.3mm HI-Q	Capacitor	General Ceramic (CK, CKR)	0.105905	1	0.119477
201.00523.025	CAP CER 1.2pF +-0.1pF 50V SMD 0201 GP/HF NPO T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.105905	2	0.231005
202.00009.015	CAP CER 100nF 10% 16V SMD 0402 GP/HF X7R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	18	1.963876
202.00009.015	CAP CER 100nF 10% 16V SMD 0402 GP/HF X7R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	49	5.284361
202.00010.005	CAP CER 100nF 10% 16V SMD 0402 GP/HF X5R T=0.56mm	Capacitor	General Ceramic (CK, CKR)	0.105905	45	4.856779
202.00032.015	CAP CER 1nF 10% 16V SMD 0402 GP/HF X7R T=0.55mm	Capacitor	General Ceramic (CK, CKR)	0.105905	3	0.341223
202.00032.015	CAP CER 1nF 10% 16V SMD 0402 GP/HF X7R T=0.55mm	Capacitor	General Ceramic (CK, CKR)	0.105905	1	0.119477
202.00032.015	CAP CER 1nF 10% 16V SMD 0402 GP/HF X7R T=0.55mm	Capacitor	General Ceramic (CK, CKR)	0.105905	8	0.885630
202.00032.015	CAP CER 1nF 10% 16V SMD 0402 GP/HF X7R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	3	0.341223
202.00069.005	CAP CER 20pF 5% 50V SMD 0402 GP/HF NPO T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	1	0.119477
202.00071.005	CAP CER 2.2nF 10% 25V SMD 0402 GP/HF X7R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	1	0.119477

File Name: K18X001.00
Assembly: System
Standard: Telcordia Issue 3
Method: Method I Case 3

Failure Rate: 1628.570092 FITs
MTBF (hrs): 614,036
Temperature: 50
Environment: GB, GC - Ground Benign, Controlled

Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
202.00078.005	CAP CER 22nF 10% 16V SMD 0402 GP/HF X7R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	17	1.856348
202.00097.005	CAP CER 33pF 5% 50V SMD 0402 GP/HF NPO T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	10	1.101971
202.00099.005	CAP CER 39pF 5% 50V SMD 0402 GP/HF NPO T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	1	0.119477
202.01102.005	CAP CER 100nF 20% 10V SMD 0402 GP/HF X5R 0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	2	0.231005
202.01115.025	CAP CER 100pF 5% 50V SMD 0402 GP/HF NPO T=0.56mm	Capacitor	General Ceramic (CK, CKR)	0.105905	1	0.119477
202.01130.005	CAP CER 15pF 1% 50V SMD 0402 GP/HF NPO T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	2	0.231005
202.01139.025	CAP CER 47pF 5% 50V SMD 0402 GP/HF NPO T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	1	0.119477
202.01149.025	CAP CER 27pF 5% 50V SMD 0402 GP/HF NPO T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	7	0.777245
202.01149.025	CAP CER 27pF 5% 50V SMD 0402 GP/HF NPO T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	4	0.450765
202.01159.005	CAP CER 100nF 10% 10V SMD 0402 GP/HF X7R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	6	0.668676
202.01160.015	CAP CER 1uF 10% 10V SMD 0402 GP/HF X5R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	28	3.037163
202.01165.005	CAP CER 2.2uF 20% 6.3V SMD 0402 GP/HF X5R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	5	0.559875
202.01206.005	CAP CER 22pF 1% 50V SMD 0402 GP/HF NPO T=0.55mm	Capacitor	General Ceramic (CK, CKR)	0.105905	3	0.341223
202.01255.015	CAP CER 2.2pF +-0.05pF 50V SMD 0402 GP/HF NPO T=0.5mm HI-Q	Capacitor	General Ceramic (CK, CKR)	0.105905	1	0.119477
202.01338.015	CAP CER 2.2uF 20% 10V SMD 0402 GP/HF X5R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	1	0.119477
202.01365.005	CAP CER 1uF 10% 6.3V SMD 0402 GP/HF X7R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	22	2.393574
202.01372.005	CAP CER 18pF 1% 50V SMD 0402 GP/HF NPO T=0.5mm HI-Q	Capacitor	General Ceramic (CK, CKR)	0.105905	2	0.231005

File Name: K18X001.00
Assembly: System
Standard: Telcordia Issue 3
Method: Method I Case 3

Failure Rate: 1628.570092 FITs
MTBF (hrs): 614,036
Temperature: 50
Environment: GB, GC - Ground Benign, Controlled

Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
202.01414.005	CAP CER 4.7uF 10% 10V SMD 0402 GP/HF X5R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	15	1.641143
202.01414.005	CAP CER 4.7uF 10% 10V SMD 0402 GP/HF X5R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	1	0.119477
202.01435.015	CAP CER 1uF 10% 10V SMD 0402 GP/HF X6S T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	2	0.231005
203.00002.G05	CAP CER 100nF 10% 50V SMD 0603 GP/HF X7R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.105905	3	0.341223
203.00013.005	CAP CER 100nF 10% 50V SMD 0603 GP/HF X7R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.105905	10	1.101971
203.00039.005	CAP CER 120pF 5% 50V SMD 0603 GP/HF NPO T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.105905	8	0.885630
203.00092.005	CAP CER 270pF 5% 50V SMD 0603 GP/HF NPO T=0.9mm	Capacitor	General Ceramic (CK, CKR)	0.105905	16	1.748772
203.00113.005	CAP CER 4.7nF 10% 50V SMD 0603 GP/HF X7R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.105905	1	0.119477
203.00115.005	CAP CER 470pF 10% 50V SMD 0603 GP/HF X7R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.105905	4	0.450765
203.00919.005	CAP CER 10uF 20% 6.3V SMD 0603 GP/HF X5R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.105905	7	0.777245
203.00927.015	CAP CER 1uF 10% 10V SMD 0603 GP/HF X7R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.105905	13	1.425703
203.00931.005	CAP CER 1uF 10% 16V SMD 0603 GP/HF X7R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.105905	16	1.748772
203.01005.005	CAP CER 10uF 20% 10V SMD 0603 GP/HF X5R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.105905	6	0.668676
205.00502.005	CAP CER 10uF 10% 50V SMD 1210 GP/HF X7R T=2.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	3	0.341223
205.00502.005	CAP CER 10uF 10% 50V SMD 1210 GP/HF X7R T=2.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	2	0.231005
207.00002.G05	CAP CER 22uF 20% 6.3V SMD 0603 GP/HF X5R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.105905	5	0.559875
207.00023.005	CAP CER 10uF 10% 6.3V SMD 0805 GP/HF X7R T=1.25mm	Capacitor	General Ceramic (CK, CKR)	0.105905	2	0.231005

File Name: K18X001.00
Assembly: System
Standard: Telcordia Issue 3
Method: Method I Case 3

Failure Rate: 1628.570092 FITs
MTBF (hrs): 614,036
Temperature: 50
Environment: GB, GC - Ground Benign, Controlled

Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
207.00042.005	CAP CER 10uF 20% 6.3V SMD 0402 GP/HF X5R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	20	2.178801
207.00043.005	CAP CER 22uF 20% 10V SMD 0805 GP/HF X5R T=1.25mm	Capacitor	General Ceramic (CK, CKR)	0.105905	14	1.533456
207.00058.005	CAP CER 22uF 20% 16V SMD 0805 GP/HF X5R T=1.25mm	Capacitor	General Ceramic (CK, CKR)	0.105905	6	0.668676
207.00060.005	CAP CER 22uF 20% 10V SMD 0603 GP/HF X5R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.105905	6	0.668676
207.00064.005	CAP CER 10uF 10% 25V SMD 0805 GP/HF X5R T=1.25mm	Capacitor	General Ceramic (CK, CKR)	0.105905	1	0.119477
207.00076.005	CAP CER 10uF 20% 6.3V SMD 0603 GP/HF X6S T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.105905	11	1.209971
207.00080.005	CAP CER 1uF 10% 25V SMD 0402 GP/HF X5R T=0.5mm	Capacitor	General Ceramic (CK, CKR)	0.105905	7	0.777245
207.00114.005	CAP CER 1uF 10% 50V SMD 0603 GP/HF X5R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.105905	4	0.450765
207.00114.005	CAP CER 1uF 10% 50V SMD 0603 GP/HF X5R T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.105905	9	0.993864
207.00128.005	CAP CER 1uF 20% 10V SMD 0201 GP/HF X5R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.105905	11	1.209971
207.00128.005	CAP CER 1uF 20% 10V SMD 0201 GP/HF X5R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.105905	1	0.119477
207.00128.005	CAP CER 1uF 20% 10V SMD 0201 GP/HF X5R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.105905	2	0.231005
207.00128.005	CAP CER 1uF 20% 10V SMD 0201 GP/HF X5R T=0.3mm	Capacitor	General Ceramic (CK, CKR)	0.105905	2	0.231005
207.00156.005	CAP CER 20pF 1% 50V SMD 0402 GP/HF NPO T=0.5mm HI-Q	Capacitor	General Ceramic (CK, CKR)	0.105905	2	0.231005
207.00171.005	CAP CER 4.7uF 10% 6.3V SMD 0603 GP/HF X6S T=0.85mm	Capacitor	General Ceramic (CK, CKR)	0.105905	1	0.119477
207.00178.005	CAP CER 10uF 20% 16V SMD 0603 GP/HF X6S T=0.8mm	Capacitor	General Ceramic (CK, CKR)	0.105905	3	0.341223
207.00179.005	CAP CER 10uF 10% 50V SMD 1206 GP/HF X5R T=1.6mm	Capacitor	General Ceramic (CK, CKR)	0.105905	8	0.885630

File Name: K18X001.00
Assembly: System
Standard: Telcordia Issue 3
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Failure Rate: 1628.570092 FITs
MTBF (hrs): 614,036
Temperature: 50
Environment: GB, GC - Ground Benign, Controlled

Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
250.00005.005	RES C SMD 0201 22ohm 5% GP/HF 1/20W	Resistor	Composition (RC, RCR)	0.268963	15	5.023634
250.00114.005	RES C SMD 0201 0ohm JUMPER GP/HF 1/20W	Resistor	Composition (RC, RCR)	0.268963	18	5.922986
250.00118.015	RES C SMD 0201 10Kohm 5% GP/HF 1/20W	Resistor	Composition (RC, RCR)	0.268963	6	2.245661
250.00123.005	RES C SMD 0201 47Kohm 5% GP/HF 1/20W	Resistor	Composition (RC, RCR)	0.268963	13	4.418758
250.00154.035	RES C SMD 0201 100ohm 5% GP/HF 1/20W	Resistor	Composition (RC, RCR)	0.268963	1	0.528344
250.00202.005	RES C SMD 0201 4.7Kohm 5% GP/HF 1/20W	Resistor	Composition (RC, RCR)	0.268963	13	4.418758
251.00003.005	RES C SMD 0402 100Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	5	1.922804
251.00003.005	RES C SMD 0402 100Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	1	0.528344
251.00004.005	RES C SMD 0402 100ohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	1	0.528344
251.00004.005	RES C SMD 0402 100ohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	28	8.874637
251.00005.005	RES C SMD 0402 10Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	29	9.166981
251.00005.005	RES C SMD 0402 10Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	3	1.256848
251.00005.005	RES C SMD 0402 10Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	5	1.922804
251.00011.015	RES C SMD 0402 1Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	7	2.564076
251.00021.005	RES C SMD 0402 22ohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	20	6.518280
251.00034.005	RES C SMD 0402 470ohm 5% GP/HF	Resistor	Composition (RC, RCR)	0.268963	2	0.906203
251.00042.005	RES C SMD 0402 820ohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	2	0.906203
251.00652.015	RES C SMD 0402 2Kohm 5% GP/HF	Resistor	Composition (RC, RCR)	0.268963	1	0.528344
251.00654.005	RES C SMD 0402 200ohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	2	0.906203
251.00656.035	RES C SMD 0402 4.7Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	35	10.913253
251.00656.035	RES C SMD 0402 4.7Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	1	0.528344
251.00656.035	RES C SMD 0402 4.7Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	8	2.878993
251.00656.035	RES C SMD 0402 4.7Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	13	4.418758
251.00657.015	RES C SMD 0402 33ohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	11	3.808433

File Name: K18X001.00
Assembly: System
Standard: Telcordia Issue 3
Method: Method I Case 3

Failure Rate: 1628.570092 FITs
MTBF (hrs): 614,036
Temperature: 50
Environment: GB, GC - Ground Benign, Controlled

Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
251.00670.005	RES C SMD 0402 4.7ohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	1	0.528344
251.00675.015	RES C SMD 0402 1.5Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	4	1.594037
251.00678.005	RES C SMD 0402 510ohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	2	0.906203
251.00681.025	RES C SMD 0402 0ohm 5% GP/HF	Resistor	Composition (RC, RCR)	0.268963	99	29.104336
251.00681.025	RES C SMD 0402 0ohm JUMPER GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	10	3.500759
251.00681.025	RES C SMD 0402 0ohm JUMPER GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	6	2.245661
251.00681.025	RES C SMD 0402 0ohm JUMPER GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	1	0.528344
251.00681.025	RES C SMD 0402 0ohm JUMPER GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	7	2.564076
251.00681.025	RES C SMD 0402 0ohm JUMPER GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	1	0.528344
251.00682.065	RES C SMD 0402 47Kohm 5% GP/HF	Resistor	Composition (RC, RCR)	0.268963	7	2.564076
251.00682.065	RES C SMD 0402 47Kohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	1	0.528344
251.00694.005	RES C SMD 0402 330ohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	1	0.528344
251.00767.005	RES C SMD 0402 240ohm 5% GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	2	0.906203
252.00251.025	RES C SMD 0603 0ohm 5% GP/HF	Resistor	Composition (RC, RCR)	0.268963	5	1.922804
252.00251.025	RES C SMD 0603 0ohm JUMPER GP/HF 1/10W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	18	1.839633
252.00251.025	RES C SMD 0603 0ohm JUMPER GP/HF 1/10W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	10	1.046534
252.00251.025	RES C SMD 0603 0ohm JUMPER GP/HF 1/10W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	3	0.338918
252.00251.025	RES C SMD 0603 0ohm JUMPER GP/HF 1/10W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	3	0.338918
253.00303.025	RES C SMD 0805 0ohm JUMPER GP/HF 1/8W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
260.00034.005	RES C SMD 0201 1Kohm 1% GP/HF 1/20W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
260.00043.005	RES C SMD 0201 49.9ohm 1% GP/HF 1/20W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	25	2.527872
260.00045.005	RES C SMD 0201 100Kohm 1% GP/HF 1/20W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
260.00077.015	RES C SMD 0201 240ohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	4	0.442123
260.00089.005	RES C SMD 0201 150ohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458

File Name: K18X001.00
Assembly: System
Standard: Telcordia Issue 3
Method: Method I Case 3

Failure Rate: 1628.570092 FITs
MTBF (hrs): 614,036
Temperature: 50
Environment: GB, GC - Ground Benign, Controlled

Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
260.00128.005	RES C SMD 0201 2.2ohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	8	0.846319
260.00158.005	RES C SMD 0201 120ohm 1% GP/HF 1/20W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.00009.005	RES C SMD 0402 121Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.00015.005	RES C SMD 0402 162Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.00023.005	RES C SMD 0402 200ohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.00026.005	RES C SMD 0402 22ohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.00029.005	RES C SMD 0402 24Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.00032.005	RES C SMD 0402 2Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	2	0.234178
261.00038.005	RES C SMD 0402 301ohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	8	0.846319
261.00039.005	RES C SMD 0402 30Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.00831.005	RES C SMD 0402 20Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.00835.035	RES C SMD 0402 1Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	2	0.234178
261.00839.005	RES C SMD 0402 10Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	3	0.338918
261.00840.035	RES C SMD 0402 100Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.00840.035	RES C SMD 0402 100Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	3	0.338918
261.00848.015	RES C SMD 0402 200Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	7	0.745731
261.00851.005	RES C SMD 0402 300Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.00869.005	RES C SMD 0402 40.2Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.00876.005	RES C SMD 0402 5.1ohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	4	0.442123
261.00879.005	RES C SMD 0402 44.2Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.00881.005	RES C SMD 0402 80.6Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.00897.005	RES C SMD 0402 680ohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458

File Name: K18X001.00
Assembly: System
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Failure Rate: 1628.570092 FITs
MTBF (hrs): 614,036
Temperature: 50
Environment: GB, GC - Ground Benign, Controlled

Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
261.00900.005	RES C SMD 0402 22.1Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.00900.005	RES C SMD 0402 22.1Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.00913.005	RES C SMD 0402 120Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	3	0.338918
261.00918.005	RES C SMD 0402 4.99Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.00923.005	RES C SMD 0402 2.49Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.00926.005	RES C SMD 0402 6.04Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.00935.015	RES C SMD 0402 1Mohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.00935.015	RES C SMD 0402 1Mohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.00968.005	RES C SMD 0402 75Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.00970.005	RES C SMD 0402 3.9Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	2	0.234178
261.00974.025	RES C SMD 0402 49.9Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.01031.005	RES C SMD 0402 470Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.01095.005	RES C SMD 0402 240ohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	2	0.234178
261.01097.005	RES C SMD 0402 47Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.01159.005	RES C SMD 0402 95.3Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.01185.005	RES C SMD 0402 1.2Mohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.01354.005	RES C SMD 0402 27Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.01363.005	RES C SMD 0402 360Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
261.01389.005	RES C SMD 0402 29.4Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	3	0.338918
261.01436.005	RES C SMD 0402 210Kohm 1% GP/HF 1/16W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458

File Name: K18X001.00
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Failure Rate: 1628.570092 FITs
MTBF (hrs): 614,036
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Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
262.00185.005	RES C SMD 0603 4.7Kohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	8	0.846319
262.00212.015	RES C SMD 0603 49.9ohm 1% GP/HF	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	8	0.846319
262.01483.015	RES C SMD 0603 10Kohm 1% GP/HF 1/10W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	1	0.126458
262.02115.005	RES C SMD 0603 100Kohm 0.5% GP/HF 1/10W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	2	0.234178
263.01134.005	RES C SMD 0805 6.8ohm 1% GP/HF 1/8W	Resistor	Film (RL, RLR, RN, RNR, RM)	0.095026	16	1.642194
270.00002.005	RES NET 8P4R 2.0*1.0mm 4.7Kohm 5% SEP SMD GP/HF 1/16W	Resistor	Composition (RC, RCR)	0.268963	2	0.906203
286.00057.005	THERMISTOR NTC 2.5ohm 20% 2.4W DIP P=5mm GP/HF	Resistor	Thermistor (RTH)	3.323207	1	6.494001
308.03523.135	PCB 8L OSP REV.125 4PCS GP 75*266.5mm K18X001T00	Connection	PCB Edge	8.228892	1	15.681297
308.03524.055	PCB 4L OSP REV.025 2PCS GP 75*117mm 96.1531T00	Connection	PCB Edge	8.228892	1	15.681297
308.03581.055	PCB 4L OSP REV.055 2PCS GP 37*202mm 96.1515T00	Connection	PCB Edge	8.228892	1	15.681297
308.03582.055	PCB 4L OSP REV.055 2PCS GP 16*160mm 96.1517T00	Connection	PCB Edge	8.228892	1	15.681297
308.03583.055	PCB 4L OSP REV.055 2PCS GP 30*40mm 96.1520T00	Connection	PCB Edge	8.228892	1	15.681297
308.03584.055	PCB 4L OSP REV.055 2PCS GP 12*140mm 96.1516T00	Connection	PCB Edge	8.228892	1	15.681297
308.03648.055	PCB 4L OSP REV.055 2PCS GP 30*40mm 96.1540T00	Connection	PCB Edge	8.228892	1	15.681297
334.00060.005	CONN MAGJACK 10/10/1000 10P8C 50u"GOLD 1*1PORT W/LED Y/G 2.54mm SMD F RT GP	Connection	General	6.962909	1	12.055620
335.00692.005	CONN MICRO USB 1*1PORT 0.65mm SMD F RT GP	Connection	General	6.962909	1	12.055620
341.00009.005	HEADER PIN 1*5P 2.54mm DIP MALE ST GP	Connection	General	6.962909	1	12.055620
341.00400.015	HEADER PIN 2*4P 2.0mm DIP MALE ST GP/HF	Connection	General	6.962909	1	12.055620

File Name: K18X001.00
Assembly: System
Standard: Telcordia Issue 3
Method: Method I Case 3

Failure Rate: 1628.570092 FITs
MTBF (hrs): 614,036
Temperature: 50
Environment: GB, GC - Ground Benign, Controlled

Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
341.00485.005	HEADER RF 1*1PORT 0.45mm SMD MALE ST GP/HF	Connection	General	6.962909	1	12.055620
342.00730.005	CONN USB 3.0 A 1*1 PORT 2mm DIP FEMALE RT GP/HF	Connection	General	6.962909	1	12.055620
342.01036.005	CONN HDMI A 19PIN 1*1PORT 0.5mm SMD MALE RT GP	Connection	General	6.962909	1	12.055620
342.01067.005	CONN AUDIO JACK 1*1PORT 1~3u"GOLD D=3.6mm SMD FEMALE RT GP BLACK	Connection	General	6.962909	2	21.099005
342.01374.005	CONN USB 4P 30u"GOLD 1*1PORT 2mm DIP FEMALE RT GP	Connection	General	6.962909	1	12.055620
343.01038.005	CONN WTB 2P 3.96mm DIP MALE ST GP	Connection	General	6.962909	2	21.099005
343.01595.005	CONN WTB 2P 3.96mm DIP MALE RA GP	Connection	General	6.962909	1	12.055620
343.01663.005	CONN WTB 1*4PIN P=2.5mm DIP MALE RT	Connection	General	6.962909	2	21.099005
344.00248.005	CONN PWR JACK 1*1PORT D=1.2/5.9mm DIP FEMALE RT GP 24V 5A	Connection	General	6.962909	1	12.055620
345.00467.005	CONN FFC 15P 0.5mm SMD FEMALE RT GP	Connection	General	6.962909	1	12.055620
345.00467.005	CONN FFC 15PIN P=0.5mm SMD FEMALE RT GP	Connection	General	6.962909	1	12.055620
345.00467.005	CONN FFC 15PIN P=0.5mm SMD FEMALE RT GP	Connection	General	6.962909	1	12.055620
345.00467.005	CONN FFC 15PIN P=0.5mm SMD FEMALE RT GP	Connection	General	6.962909	1	12.055620
345.00470.005	CONN FFC 15P 0.5mm SMD FEMALE RT GP	Connection	General	6.962909	3	29.637329
345.00470.005	CONN FFC 15P 0.5mm SMD FEMALE RT GP	Connection	General	6.962909	3	29.637329
345.00470.005	CONN FFC 15P 0.5mm SMD FEMALE RT GP	Connection	General	6.962909	1	12.055620
345.00470.005	CONN FFC 15P 0.5mm SMD FEMALE RT GP	Connection	General	6.962909	1	12.055620
620.05156.005	IC AMP 5~28V SMD QFN40 GP WA20-6829B	Integrated Circuit	Linear	3.508601	4	20.648702
JSCLZ35VC100MH	CAP AL 100uF 20% 35V 125C 5KH SMD 10*8mm GP	Capacitor	Lead Mount, Elec, Alum (CE)	22.154710	4	108.560076

File Name: K18X001.00
Assembly: System
Standard: Telcordia Issue 3
Method: Method I Case 3

Failure Rate: 1628.570092 FITs
MTBF (hrs): 614,036
Temperature: 50
Environment: GB, GC - Ground Benign, Controlled

Part Number	Description	Category	Subcategory	Unit Failure Rate	Quantity	Total Failure Rate
JSCX2081011Z	IC PER 3~5.5V SMD QFN48 GP ADC CX20810-11Z	Integrated Circuit	Linear	3.508601	1	6.823254
JSIT66318FN00	IC PER 3.3V SMD QFN40 GP HDMI 2.0 IT66318FN/EW	Integrated Circuit	Linear	3.508601	1	6.823254
JSSPM0687LR5H	MICROPHONE 2.3~3.6V 0.365mA 40+-1dB GP SPM0687LR5H-1	Inductor	Coil	0.130661	4	0.583532
JSTSOP75338TT	IR RECEIVER 38KHz SMD SMD4 GP TSOP75338TT	Optical Device	Receiver Module	237.371894	1	489.745553
JSVS550A1BWM00	IC PER 1.8/2.5/3.3V SMD BGA463 GP SOC VS-550A1-BWM000-T191T	Integrated Circuit	Linear	3.508601	1	6.823254