

AEC-6625

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 19.827244 ppm MTBF: 50,436 Hours
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Issue date	Approval	Test Engineer
2011/03/04	Jansin Lee	Jessica Chou

Reliability Prediction (MTBF)

I . Model Name: TF-AEC-6625-A1M-1010

II . Prediction Date: Mar. 4th, 2011

III . Prediction Site: AAEON Q.E. Dept.

IV . Predicted by: Jessica Chou

V . Equipment: Relex Ver.7.3 Visual Reliability Software

VI. Simulation Environment:

- Temperature: 24.8 degrees C
- Standard: Telcordia (Bellcore) Standard

VII. Term and Definition:

- Unit : An assembly of device.
- Duty Cycle : Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure rate is to be calculated based the selected Calculation models. The multiplier is 1,000,000.
- MTBF : MTBF is always specified in hours.

VIII. Prediction Result:

TF-AEC-6625-A1M-1010:

- Failure Rate: 19.827244 ppm

- MTBF: 50,436 Hours

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 03. 4, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80



Description Top-level assembly
File Name TF-AEC-6625-A1M-1010.RPJ
Time 14:26
Failure Rate 19.827244
MTBF 50,436

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-AEC-6625-A1M-1010	System	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	19.83	50435.65
ASS'Y Power Board PER-P17D	9697P17D01-DIP	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	1.13	882259.22
ASS'Y EPIC-QM57 Rev.A10	9697QM5732-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	18.69	53493.70

AAEON Reliability Prediction Report

Part Number 9697P17D01-DIP
Reference Des
Date 03. 4, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80



Description
File Name TF-AEC-6625-A1M-1010.RPJ
Time 14:26
Failure Rate 1.133454
MTBF 882,259

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1053500279	Resistor	CR1,CR2	Telcordia Issue 1	Level I		2.00	0.002259	.3986	442706854.87
1121610060	Capacitor	C1,C2,C3	Telcordia Issue 1	Level I		3.00	0.004518	1.1957	221353427.43
11C4501060	Capacitor	C4	Telcordia Issue 1	Level I		1.00	0.004518	.3986	221353427.43
1121547661	Capacitor	C10,C5	Telcordia Issue 1	Level I		2.00	0.004518	.7971	221353427.43
11C1522480	Capacitor	C13,C6	Telcordia Issue 1	Level I		2.00	0.004518	.7971	221353427.43
1122501780	Capacitor	C12,C7	Telcordia Issue 1	Level I		2.00	0.004518	.7971	221353427.43
1124522280	Capacitor	C11	Telcordia Issue 1	Level I		1.00	0.004518	.3986	221353427.43
1124522880	Capacitor	C14	Telcordia Issue 1	Level I		1.00	0.004518	.3986	221353427.43
1189610180	Capacitor	C17	Telcordia Issue 1	Level I		1.00	0.004518	.3986	221353427.43
1124701680	Capacitor	C18,C19,C22,C23,C8	Telcordia Issue 1	Level I		5.00	0.004518	1.9929	221353427.43
1301005442	Semiconductor	D1	Telcordia Issue 1	Level I		1.00	0.023744	2.0948	42115875.63
1301003240	Semiconductor	D2	Telcordia Issue 1	Level I		1.00	0.023744	2.0948	42115875.63
1301003440	Semiconductor	D3	Telcordia Issue 1	Level I		1.00	0.023744	2.0948	42115875.63
1301003640	Semiconductor	D4	Telcordia Issue 1	Level I		1.00	0.023744	2.0948	42115875.63
121110336H	Inductor	L1	Telcordia Issue 1	Level I	47.20	1.00	0.190922	16.8443	5237731.09
1212308054	Inductor	L2,L3,L4	Telcordia Issue 1	Level I		3.00	0.002259	.5979	442706854.87
1315301111	Semiconductor	Q1,Q2,Q3,Q4	Telcordia Issue 1	Level I		4.00	0.079147	27.9312	12634762.69
105A701003	Resistor	R1	Telcordia Issue 1	Level I		1.00	0.002259	.1993	442706854.87
105A534823	Resistor	R4	Telcordia Issue 1	Level I		1.00	0.002259	.1993	442706854.87
105A704723	Resistor	R5	Telcordia Issue 1	Level I		1.00	0.002259	.1993	442706854.87
105A524913	Resistor	R6	Telcordia Issue 1	Level I		1.00	0.002259	.1993	442706854.87
105A502033	Resistor	R7	Telcordia Issue 1	Level I		1.00	0.002259	.1993	442706854.87
105A700003	Resistor	R10,R11,R12,R13, R15,R9	Telcordia Issue 1	Level I		6.00	0.002259	1.1957	442706854.87
105A512413	Resistor	R14,R16	Telcordia Issue 1	Level I		2.00	0.002259	.3986	442706854.87
1059710003	Resistor	R17	Telcordia Issue 1	Level I		1.00	0.002259	.1993	442706854.87
105A700333	Resistor	R18	Telcordia Issue 1	Level I		1.00	0.002259	.1993	442706854.87
105A700133	Resistor	R19	Telcordia Issue 1	Level I		1.00	0.002259	.1993	442706854.87
14S3378000	Integrated Circuit	U1	Telcordia Issue 1	Level I		1.00	0.058503	5.1615	17093092.17
1314257610	Integrated Circuit	U2	Telcordia Issue 1	Level I		1.00	0.058503	5.1615	17093092.17
1211103301	Inductor	L5	Telcordia Issue 1	Level I		1.00	0.085836	7.5729	11650180.39
1652003101	Connection	CN1	Telcordia Issue 1	Level I		1.00	0.001689	.1490	592012444.80
1655104005	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.002252	.1987	444009333.60
1655004011	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.022522	1.9870	44400933.36
1189618090	Capacitor	EC1,EC2	Telcordia Issue 1	Level I		2.00	0.004518	.7971	221353427.43
1181647110	Capacitor	EC3,EC4	Telcordia Issue 1	Level I		2.00	0.004518	.7971	221353427.43
1111610194	Capacitor	C20	Telcordia Issue 1	Level I		1.00	0.042229	3.7257	23680497.79

AAEON Reliability Prediction Report

Part Number 9697QM5732-D
Reference Des
Date 03. 4, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80



Description
File Name TF-AEC-6625-A1M-1010.RPJ
Time 14:26
Failure Rate 18.693790
MTBF 53,494

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
105A700009	Resistor	C225,C226,C227, C228,C644,C645, C646,C647,L15,L21, L26,L30,L40,L8,R12, R125,R126,R130, R131,R140,R153,R16, R161,R162,R164, R166,R167,R170, R171,R174,R175, R177,R189,R191, R192,R193,R194, R195,R196,R197, R198,R199,R2,R2	Telcordia Issue 1	Level I		219.00	0.002259	2.6462	442706854.87
1129710090	Capacitor	C249,C251,C252, C253,C695,C697, C701	Telcordia Issue 1	Level I		7.00	0.004518	.1692	221353427.43
1124515281	Capacitor	C255	Telcordia Issue 1	Level I		1.00	0.004518	.0242	221353427.43
1124427090	Capacitor	C259,C260,C261, C262,C605,C617, C639,C648,C689, C692,C698,C710, C713	Telcordia Issue 1	Level I		13.00	0.004518	.3142	221353427.43
11E1510050	Capacitor	C271,C272	Telcordia Issue 1	Level I		2.00	0.004518	.0483	221353427.43
11A4422180	Capacitor	C274	Telcordia Issue 1	Level I		1.00	0.004518	.0242	221353427.43
1129722091	Capacitor	C282,C380	Telcordia Issue 1	Level I		2.00	0.004518	.0483	221353427.43
11E2647650	Capacitor	C314,C323,C344, C348	Telcordia Issue 1	Level I		4.00	0.004518	.0967	221353427.43
1124522880	Capacitor	C356	Telcordia Issue 1	Level I		1.00	0.004518	.0242	221353427.43
11E9610190	Capacitor	C389,C410	Telcordia Issue 1	Level I		2.00	0.004518	.0483	221353427.43
1189622150	Capacitor	C442,C454	Telcordia Issue 1	Level I		2.00	0.004518	.0483	221353427.43
11E1547090	Capacitor	C515,C519	Telcordia Issue 1	Level I		2.00	0.004518	.0483	221353427.43
1124433090	Capacitor	C623,C624,C670	Telcordia Issue 1	Level I		3.00	0.004518	.0725	221353427.43
1124522680	Capacitor	C678	Telcordia Issue 1	Level I		1.00	0.004518	.0242	221353427.43
11C4533180	Capacitor	C712	Telcordia Issue 1	Level I		1.00	0.004518	.0242	221353427.43
1300001440	Semiconductor	D1,D2,D8	Telcordia Issue 1	Level I		3.00	0.023744	.3810	42115875.63
1211105673	Inductor	D4	Telcordia Issue 1	Level I		1.00	0.085836	.4592	11650180.39
1211105673	Inductor	D5	Telcordia Issue 1	Level I	28.00	1.00	0.141829	.7587	7050748.31
1305100541	Semiconductor	D24,D25,D26,D27, D30,D31,D32,D33, D34,D35,D36,D37,D6	Telcordia Issue 1	Level I		13.00	0.023744	1.6512	42115875.63
1301005440	Semiconductor	D17,D18,D20,D28, D38,D42,D7	Telcordia Issue 1	Level I		7.00	0.023744	.8891	42115875.63
1300414848	Semiconductor	D9	Telcordia Issue 1	Level I		1.00	0.023744	.1270	42115875.63

AAEON Reliability Prediction Report

Part Number 9697QM5732-D
Reference Des
Date 03. 4, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80



Description
File Name TF-AEC-6625-A1M-1010.RPJ
Time 14:26
Failure Rate 18.693790
MTBF 53,494

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1315700216	Semiconductor	Q1,Q11,Q16,Q17,Q19, Q23,Q24,Q3,Q30,Q31, Q32,Q35,Q39,Q40, Q41,Q47,Q48,Q49, Q50,Q51,Q54,Q56, Q58,Q59,Q63,Q64, Q65,Q66,Q67,Q76, Q77,Q78,Q79,Q80, Q81,Q82,Q85,Q88, Q89,Q90,Q91	Telcordia Issue 1	Level I		41.00	0.079147	17.3588	12634762.69
1310390410	Semiconductor	Q2,Q20,Q21,Q33,Q34, Q36,Q37,Q43,Q44, Q45,Q57,Q69,Q71, Q73	Telcordia Issue 1	Level I		14.00	0.023744	1.7782	42115875.63
1315442410	Integrated Circuit	Q28,Q53,Q72	Telcordia Issue 1	Level I		3.00	0.058503	.9389	17093092.17
1315442410	Integrated Circuit	Q4	Telcordia Issue 1	Level I	28.60	1.00	0.395666	2.1166	2527383.60
1315050311	Integrated Circuit	Q10,Q12,Q27,Q5,Q9	Telcordia Issue 1	Level I		5.00	0.058503	1.5648	17093092.17
1315R30310	Integrated Circuit	Q13,Q29,Q6,Q7,Q8	Telcordia Issue 1	Level I		5.00	0.058503	1.5648	17093092.17
1315441012	Semiconductor	Q15,Q52,Q55,Q61	Telcordia Issue 1	Level I		4.00	0.079147	1.6935	12634762.69
1311138610	Semiconductor	Q25,Q26	Telcordia Issue 1	Level I		2.00	0.023744	.2540	42115875.63
1315230511	Semiconductor	Q38	Telcordia Issue 1	Level I		1.00	0.079147	.4234	12634762.69
14S3524700	Integrated Circuit	Q42	Telcordia Issue 1	Level I		1.00	0.058503	.3130	17093092.17
1314108416	Integrated Circuit	Q46	Telcordia Issue 1	Level I		1.00	0.058503	.3130	17093092.17
1314108416	Integrated Circuit	Q68	Telcordia Issue 1	Level I	29.60	1.00	0.420466	2.2492	2378314.03
131411171C	Integrated Circuit	Q60,Q62	Telcordia Issue 1	Level I		2.00	0.058503	.6259	17093092.17
1311390610	Semiconductor	Q74	Telcordia Issue 1	Level I		1.00	0.023744	.1270	42115875.63
1315667910	Semiconductor	Q75	Telcordia Issue 1	Level I		1.00	0.158293	.8468	6317381.35
1315668510	Semiconductor	Q83	Telcordia Issue 1	Level I		1.00	0.079147	.4234	12634762.69
1231332722	Miscellaneous	Y4	Telcordia Issue 1	Level I		1.00	0.150000	.8024	6666666.67
1315230300	Semiconductor	Q86	Telcordia Issue 1	Level I		1.00	0.079147	.4234	12634762.69
1540782282	Resistor	RP1,RP15,RP2,RP21, RP22,RP3	Telcordia Issue 1	Level I		6.00	0.012378	.3973	80787269.19
1540700081	Resistor	RP23,RP4,RP7	Telcordia Issue 1	Level I		3.00	0.000000	.0000	.00
1540733085	Resistor	RP10,RP5,RP6,RP8, RP9	Telcordia Issue 1	Level I		5.00	0.006189	.1655	161574538.37
1540710084	Resistor	RP16,RP17,RP18, RP19,RP20,RP26, RP27,RP28,RP29, RP31,RP33,RP34	Telcordia Issue 1	Level I		12.00	0.006189	.3973	161574538.37
1540710280	Resistor	RP30,RP32	Telcordia Issue 1	Level I		2.00	0.006189	.0662	161574538.37
106B501032	Resistor	RT1,RT3,RT4,RT5, RT6	Telcordia Issue 1	Level I		5.00	0.011261	.3012	88801866.72
106B747030	Resistor	RT2	Telcordia Issue 1	Level I		1.00	0.011261	.0602	88801866.72

AAEON Reliability Prediction Report

Part Number 9697QM5732-D
Reference Des
Date 03. 4, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80

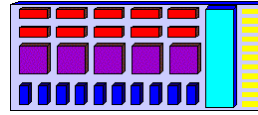


Description
File Name TF-AEC-6625-A1M-1010.RPJ
Time 14:26
Failure Rate 18.693790
MTBF 53,494

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A701009	Resistor	R291,R334,R409, R413,R414,R441, R442,R457,R54,R671, R706,R71	Telcordia Issue 1	Level I		12.00	0.002259	.1450	442706854.87
105A533033	Resistor	R61	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A701053	Resistor	R149,R440,R62,R798	Telcordia Issue 1	Level I		4.00	0.002259	.0483	442706854.87
105A702229	Resistor	R210,R265,R381, R395,R401,R420, R436,R449,R455, R608,R65,R661,R740, R741,R792,R793, R794,R795,R801, R808,R819,R820	Telcordia Issue 1	Level I		22.00	0.002259	.2658	442706854.87
105A512103	Resistor	R215,R72	Telcordia Issue 1	Level I		2.00	0.002259	.0242	442706854.87
105A708229	Resistor	R146,R178,R209, R619,R77	Telcordia Issue 1	Level I		5.00	0.002259	.0604	442706854.87
105A703309	Resistor	R187,R190,R219, R221,R239,R242, R243,R244,R245, R249,R250,R252, R253,R254,R273, R276,R404,R560, R605,R676,R766,R86, R87,R88	Telcordia Issue 1	Level I		24.00	0.002259	.2900	442706854.87
1050520004	Resistor	R110,R111,R113, R165,R182,R186, R220,R344,R89	Telcordia Issue 1	Level I		9.00	0.002259	.1087	442706854.87
105A515009	Resistor	R128,R136,R137, R173,R309,R310, R325,R326,R328, R696,R780,R784, R785	Telcordia Issue 1	Level I		13.00	0.002259	.1571	442706854.87
105A510009	Resistor	R104,R105,R116, R569,R602,R615, R626,R636	Telcordia Issue 1	Level I		8.00	0.002259	.0967	442706854.87
1059704703	Resistor	R114	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A704334	Resistor	R133,R493	Telcordia Issue 1	Level I		2.00	0.002259	.0242	442706854.87
123132505C	Miscellaneous	Y1,Y3,Y5	Telcordia Issue 1	Level I		3.00	0.150000	2.4072	6666666.67
105A508203	Resistor	R172,R176,R565	Telcordia Issue 1	Level I		3.00	0.002259	.0362	442706854.87
105A500139	Resistor	R180,R183,R207, R208,R256,R261, R300,R345,R346, R397,R555,R556, R677	Telcordia Issue 1	Level I		13.00	0.002259	.1571	442706854.87
105A506823	Resistor	R227,R251,R439	Telcordia Issue 1	Level I		3.00	0.002259	.0362	442706854.87
105A700103	Resistor	R240,R362,R377	Telcordia Issue 1	Level I		3.00	0.002259	.0362	442706854.87
105A503033	Resistor	R241	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87

AAEON Reliability Prediction Report

Part Number 9697QM5732-D
Reference Des
Date 03. 4, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80



Description
File Name TF-AEC-6625-A1M-1010.RPJ
Time 14:26
Failure Rate 18.693790
MTBF 53,494

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
105A705609	Resistor	R267,R548,R716, R722,R724,R733	Telcordia Issue 1	Level I		6.00	0.002259	.0725	442706854.87
105A702209	Resistor	R270,R332,R478, R481,R545,R554, R561,R769,R772, R773	Telcordia Issue 1	Level I		10.00	0.002259	.1208	442706854.87
105A502003	Resistor	R292,R293	Telcordia Issue 1	Level I		2.00	0.002259	.0242	442706854.87
105A505103	Resistor	R294,R664	Telcordia Issue 1	Level I		2.00	0.002259	.0242	442706854.87
105A549969	Resistor	R296,R523,R568, R572,R623	Telcordia Issue 1	Level I		5.00	0.002259	.0604	442706854.87
105A549913	Resistor	R298,R624,R625	Telcordia Issue 1	Level I		3.00	0.002259	.0362	442706854.87
105A702263	Resistor	R302,R303,R698	Telcordia Issue 1	Level I		3.00	0.002259	.0362	442706854.87
1050519114	Resistor	R314	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A704733	Resistor	R319,R469	Telcordia Issue 1	Level I		2.00	0.002259	.0242	442706854.87
105A580613	Resistor	R320	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A573213	Resistor	R323	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A507509	Resistor	R324,R327,R329, R424,R425,R426, R427,R503,R515	Telcordia Issue 1	Level I		9.00	0.002259	.1087	442706854.87
105A541233	Resistor	R330	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A556203	Resistor	R331	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A540213	Resistor	R351	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A512423	Resistor	R356	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A700233	Resistor	R363,R521	Telcordia Issue 1	Level I		2.00	0.002259	.0242	442706854.87
105A549903	Resistor	R366	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A514733	Resistor	R374	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A510523	Resistor	R387,R389	Telcordia Issue 1	Level I		2.00	0.002259	.0242	442706854.87
105A706803	Resistor	R388,R666	Telcordia Issue 1	Level I		2.00	0.002259	.0242	442706854.87
105A710053	Resistor	R390,R689	Telcordia Issue 1	Level I		2.00	0.013553	.1450	73784475.81
105A547033	Resistor	R394	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
1050530034	Resistor	R396	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A533213	Resistor	R412,R423	Telcordia Issue 1	Level I		2.00	0.002259	.0242	442706854.87
105A522663	Resistor	R429	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A537463	Resistor	R508	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A590963	Resistor	R513	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A515413	Resistor	R526	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A705123	Resistor	R527	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A575003	Resistor	R528,R612	Telcordia Issue 1	Level I		2.00	0.002259	.0242	442706854.87
105A523713	Resistor	R539	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87

AAEON Reliability Prediction Report

Part Number 9697QM5732-D
Reference Des
Date 03. 4, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80



Description
File Name TF-AEC-6625-A1M-1010.RPJ
Time 14:26
Failure Rate 18.693790
MTBF 53,494

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
105A532463	Resistor	R544	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A554963	Resistor	R551	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A501503	Resistor	R552,R627	Telcordia Issue 1	Level I		2.00	0.002259	.0242	442706854.87
105A522003	Resistor	R583,R587	Telcordia Issue 1	Level I		2.00	0.002259	.0242	442706854.87
105A501523	Resistor	R613	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A530113	Resistor	R614,R640,R641, R705	Telcordia Issue 1	Level I		4.00	0.002259	.0483	442706854.87
105A524963	Resistor	R639	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A513003	Resistor	R649	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A507533	Resistor	R683	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A517423	Resistor	R711	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A509133	Resistor	R714	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
1050582514	Resistor	R718	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
1059704761	Resistor	R720	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A705139	Resistor	R727,R728,R729, R732,R776	Telcordia Issue 1	Level I		5.00	0.002259	.0604	442706854.87
105A747003	Resistor	R731,R757	Telcordia Issue 1	Level I		2.00	0.002259	.0242	442706854.87
105A536513	Resistor	R748	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A501529	Resistor	R750	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A526113	Resistor	R761	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A701003	Resistor	R764	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
1059710001	Resistor	R802,R803,R810	Telcordia Issue 1	Level I		3.00	0.002259	.0362	442706854.87
105A700109	Resistor	R832,R833,R834, R835,R836,R837, R838,R839	Telcordia Issue 1	Level I		8.00	0.002259	.0967	442706854.87
1600010203	Connection	SW1(1-ON,2-OFF)	Telcordia Issue 1	Level I		1.00	0.001126	.0060	888018667.20
1189633160	Capacitor	TC1,TC10,TC11,TC12, TC13,TC14,TC15, TC16,TC17,TC18, TC19,TC20,TC21, TC22,TC24,TC27, TC28,TC5,TC6,TC7, TC8,TC9	Telcordia Issue 1	Level I		22.00	0.004518	.5317	221353427.43
1189915180	Capacitor	TC2,TC3,TC30,TC32	Telcordia Issue 1	Level I		4.00	0.004518	.0967	221353427.43
1182633080	Capacitor	TC4	Telcordia Issue 1	Level I		1.00	0.004518	.0242	221353427.43
14S5A00821	Integrated Circuit	U1,U12,U13,U15,U39, U43,U45,U46,U6,U7	Telcordia Issue 1	Level I		10.00	0.025876	1.3842	38645358.49
14S2047500	Integrated Circuit	U2,U8	Telcordia Issue 1	Level I		2.00	0.058503	.6259	17093092.17
14S4288200	Integrated Circuit	U3	Telcordia Issue 1	Level I		1.00	0.025876	.1384	38645358.49
14S5912300	Integrated Circuit	U5	Telcordia Issue 1	Level I		1.00	0.025876	.1384	38645358.49
14S9811500	Integrated Circuit	U9	Telcordia Issue 1	Level I		1.00	0.058503	.3130	17093092.17
14S4BD8200	Integrated Circuit	U11	Telcordia Issue 1	Level I	27.50	1.00	0.113893	.6093	8780133.11

AAEON Reliability Prediction Report

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Reference Des
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Description
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Time 14:26
Failure Rate 18.693790
MTBF 53,494

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
14S4036800	Integrated Circuit	U14	Telcordia Issue 1	Level I	40.50	1.00	0.796873	4.2628	1254904.60
14S4021301	Integrated Circuit	U16,U24,U25,U48	Telcordia Issue 1	Level I		4.00	0.058503	1.2518	17093092.17
14S5A00401	Integrated Circuit	U17,U32	Telcordia Issue 1	Level I		2.00	0.025876	.2768	38645358.49
14S5812502	Integrated Circuit	U18	Telcordia Issue 1	Level I		1.00	0.025876	.1384	38645358.49
14S5A12506	Integrated Circuit	U19	Telcordia Issue 1	Level I		1.00	0.025876	.1384	38645358.49
123131435F	Miscellaneous	Y2	Telcordia Issue 1	Level I		1.00	0.150000	.8024	6666666.67
14S4048502	Integrated Circuit	U28,U49	Telcordia Issue 1	Level I		2.00	0.058503	.6259	17093092.17
14S3050500	Integrated Circuit	U30	Telcordia Issue 1	Level I	26.60	1.00	0.349975	1.8721	2857349.82
14S3128421	Integrated Circuit	U31	Telcordia Issue 1	Level I		1.00	0.058503	.3130	17093092.17
14S4825740	Integrated Circuit	U33	Telcordia Issue 1	Level I	28.60	1.00	0.120223	.6431	8317885.61
14S4288100	Integrated Circuit	U35	Telcordia Issue 1	Level I		1.00	0.058503	.3130	17093092.17
1314780511	Integrated Circuit	U36	Telcordia Issue 1	Level I		1.00	0.058503	.3130	17093092.17
14S2048800	Integrated Circuit	U38	Telcordia Issue 1	Level I		1.00	0.031535	.1687	31711021.78
14S3170800	Integrated Circuit	U41	Telcordia Issue 1	Level I		1.00	0.058503	.3130	17093092.17
14S4878100	Integrated Circuit	U50	Telcordia Issue 1	Level I		1.00	0.025876	.1384	38645358.49
1315970211	Semiconductor	U52,U56,U57	Telcordia Issue 1	Level I		3.00	0.158293	2.5403	6317381.35
14S4257701	Integrated Circuit	U53	Telcordia Issue 1	Level I		1.00	0.025876	.1384	38645358.49
14S2200900	Integrated Circuit	U54	Telcordia Issue 1	Level I		1.00	0.058503	.3130	17093092.17
14S9341101	Integrated Circuit	U55	Telcordia Issue 1	Level I		1.00	0.025876	.1384	38645358.49
14S3E00100	Integrated Circuit	U58	Telcordia Issue 1	Level I		1.00	0.058503	.3130	17093092.17
14S3S00900	Integrated Circuit	U59	Telcordia Issue 1	Level I		1.00	0.058503	.3130	17093092.17
1651609880	Connection	U23	Telcordia Issue 1	Level I		1.00	0.022522	.1205	44400933.36
1654920302	Connection	CN12	Telcordia Issue 1	Level I		1.00	0.001126	.0060	888018667.20
121230603D	Inductor	L12,L13,L14	Telcordia Issue 1	Level I		3.00	0.002259	.0362	442706854.87
105A505623	Resistor	R163,R358	Telcordia Issue 1	Level I		2.00	0.002259	.0242	442706854.87
105A501133	Resistor	R53	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A518713	Resistor	R26	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
14S6308002	Integrated Circuit	U51	Telcordia Issue 1	Level I		1.00	0.035361	.1892	28279854.47
105A703039	Resistor	R841	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
105A701539	Resistor	R843	Telcordia Issue 1	Level I		1.00	0.002259	.0121	442706854.87
14S6206402	Integrated Circuit		Telcordia Issue 1	Level I		1.00	0.025876	.1384	38645358.49
1655306023	Connection	CN23	Telcordia Issue 1	Level I		1.00	0.003378	.0181	296006222.40
1654445300	Connection	CN35	Telcordia Issue 1	Level I		1.00	0.025337	.1355	39467496.32
1655902030	Connection	BAT1	Telcordia Issue 1	Level I		1.00	0.001126	.0060	888018667.20
175011901C	Miscellaneous	BAT2	Telcordia Issue 1	Level I		1.00	0.900000	4.8144	1111111.11
175910000B	Miscellaneous	BUZZ1	Telcordia Issue 1	Level I		1.00	0.150000	.8024	6666666.67

AAEON Reliability Prediction Report

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Reference Des
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Description
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Time 14:26
Failure Rate 18.693790
MTBF 53,494

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1655910131	Connection	CN1	Telcordia Issue 1	Level I		1.00	0.001126	.0060	888018667.20
1655305020	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.002815	.0151	355207466.88
1652602108	Connection	CN5	Telcordia Issue 1	Level I		1.00	0.001126	.0060	888018667.20
1654409103	Connection	CN11	Telcordia Issue 1	Level I		1.00	0.126687	.6777	7893499.26
165320520E	Connection	CN17	Telcordia Issue 1	Level I		1.00	0.005631	.0301	177603733.44
1653005201	Connection	CN21	Telcordia Issue 1	Level I		1.00	0.005631	.0301	177603733.44
1655909031	Connection	CN25,CN26,CN34	Telcordia Issue 1	Level I		3.00	0.005067	.0813	197337481.60
1655306020	Connection	CN27	Telcordia Issue 1	Level I		1.00	0.003378	.0181	296006222.40
1655003010	Connection	CN28	Telcordia Issue 1	Level I		1.00	0.001689	.0090	592012444.80
165251420B	Connection	CN29,CN30	Telcordia Issue 1	Level I		2.00	0.001126	.0120	888018667.20
1654808309	Connection	CN31,CN32	Telcordia Issue 1	Level I		2.00	0.001126	.0120	888018667.20
1653900034	Connection	CN36A	Telcordia Issue 1	Level I		1.00	0.013513	.0723	74001555.60
1653003101	Connection	JP2,JP7	Telcordia Issue 1	Level I		2.00	0.001689	.0181	592012444.80
1653003201	Connection	JP3,JP4,JP6	Telcordia Issue 1	Level I		3.00	0.001126	.0181	888018667.20
1654907002	Connection	SATA1,SATA2	Telcordia Issue 1	Level I		2.00	0.003941	.0422	253719619.20
1655304020	Connection	CN7	Telcordia Issue 1	Level I		1.00	0.002252	.0120	444009333.60