

AEC-6510

Reliability Prediction Report

(MTBF)

Report NO : 08P070020

10-08-2008

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** TF-AEC-6510-A1-1010

II . **Prediction Date:** Oct. 8th, 2008

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-6510-A1-1010 :

Failure Rate: 13.620944 ppm

MTBF: 73,416 Hours

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 10. 8, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80



Description Top-level assembly
File Name TF-AEC-6510-A1-1010.RPJ
Time 9:39 上午
Failure Rate 13.620944
MTBF 73,416

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-AEC-6510-A1-1010	System	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	13.620944	73,416
GENE-5315-B10	969753150L-DIP	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	11.841170	84,451
ASS'Y Power Board P02D A1.1	9697P02D11-DIP	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	1.779774	561,869

AAEON Reliability Prediction Report

Part Number 969753150L-DIP
Reference Des
Date 10. 8, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80



Description
File Name TF-AEC-6510-A1-1010.RPJ
Time 9:39 上午
Failure Rate 11.841170
MTBF 84,451

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1653002100	Connection	JP1	Bellcore Issue 6	Level I		0.022522	1.00	.1902	0.022522	44400933.36
1653003100	Connection	JP6	Bellcore Issue 6	Level I		0.001689	1.00	.0143	0.001689	592012444.80
1653003101	Connection	JP2,JP3,JP7	Bellcore Issue 6	Level I		0.001689	3.00	.0428	0.005067	592012444.80
1653003201	Connection	JP4	Bellcore Issue 6	Level I		0.003378	1.00	.0285	0.003378	296006222.40
1654409103	Connection	CN19	Bellcore Issue 6	Level I		0.005067	1.00	.0428	0.005067	197337481.60
1655305020	Connection	CN22	Bellcore Issue 6	Level I		0.002815	1.00	.0238	0.002815	355207466.88
1655306020	Connection	CN8	Bellcore Issue 6	Level I		0.003378	1.00	.0285	0.003378	296006222.40
1653006101	Connection	CN17	Bellcore Issue 6	Level I		0.003378	1.00	.0285	0.003378	296006222.40
1653900034	Connection	CFD1	Bellcore Issue 6	Level I		0.001126	1.00	.0095	0.001126	888018667.20
1655003023	Connection	CN14	Bellcore Issue 6	Level I		0.001689	1.00	.0143	0.001689	592012444.80
1656304022	Connection	CN9	Bellcore Issue 6	Level I		0.002252	1.00	.0190	0.002252	444009333.60
1111610194	Capacitor	EC1-EC3	Bellcore Issue 6	Level I		0.042229	3.00	1.0699	0.126687	23680497.79
1654606306	Connection	CN18	Bellcore Issue 6	Level I		0.003378	1.00	.0285	0.003378	296006222.40
1654515308	Connection	CN20	Bellcore Issue 6	Level I		0.008446	1.00	.0713	0.008446	118402488.96
1189656190	Capacitor	EC6	Bellcore Issue 6	Level I		0.004518	1.00	.0382	0.004518	221353427.43
1652512207	Connection	CN15,CN16	Bellcore Issue 6	Level I		0.006757	2.00	.1141	0.013513	148003111.20
1655902030	Connection	BAT1	Bellcore Issue 6	Level I		0.001126	1.00	.0095	0.001126	888018667.20
175011901C	Miscellaneous	BAT1	Bellcore Issue 6	Level I		0.900000	1.00	7.6006	0.900000	1111111.11
175910000B	Miscellaneous	SP1	Bellcore Issue 6	Level I		0.150000	1.00	1.2668	0.150000	6666666.67
165320520K	Connection	CN4	Bellcore Issue 6	Level I		0.005631	1.00	.0476	0.005631	177603733.44
105A512113	Resistor	R323	Bellcore Issue 6	Level I		0.002259	1.00	.0191	0.002259	442706854.87
105A700003	Resistor	FB47,R157,R320,R341,R378-R380-R447,R452,R457,R458	Bellcore Issue 6	Level I		0.002259	11.00	.2098	0.024847	442706854.87
105A701003	Resistor	R324,R4,R83	Bellcore Issue 6	Level I		0.002259	3.00	.0572	0.006776	442706854.87
105A701053	Resistor	R399,R453	Bellcore Issue 6	Level I		0.002259	2.00	.0382	0.004518	442706854.87
105A703323	Resistor	R240,R319	Bellcore Issue 6	Level I		0.002259	2.00	.0382	0.004518	442706854.87
105A702733	Resistor	R263,R318	Bellcore Issue 6	Level I		0.002259	2.00	.0382	0.004518	442706854.87
1059700001	Resistor	R430	Bellcore Issue 6	Level I		0.002259	1.00	.0191	0.002259	442706854.87
105A710053	Resistor	R1,R381	Bellcore Issue 6	Level I		0.013553	2.00	.2289	0.027106	73784475.81
105A503033	Resistor	R190	Bellcore Issue 6	Level I		0.002259	1.00	.0191	0.002259	442706854.87
105A504763	Resistor	R390	Bellcore Issue 6	Level I		0.002259	1.00	.0191	0.002259	442706854.87

AAEON Reliability Prediction Report

Part Number 969753150L-DIP
Reference Des
Date 10. 8, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80

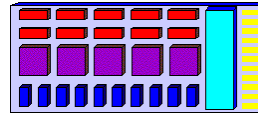


Description
File Name TF-AEC-6510-A1-1010.RPJ
Time 9:39 上午
Failure Rate 11.841170
MTBF 84,451

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A548713	Resistor	R262	Bellcore Issue 6	Level I		0.002259	1.00	.0191	0.002259	442706854.87
105A705133	Resistor	R343	Bellcore Issue 6	Level I		0.002259	1.00	.0191	0.002259	442706854.87
1212306030	Inductor	FB1,FB12,FB14,FB16,FB26-FB30,- FB34,FB36,FB37,FB39-FB42,FB44- -FB46,FB48,FB8	Bellcore Issue 6	Level I		0.002259	21.00	.4006	0.047435	442706854.87
1212308054	Inductor	FB50,FB51,FB6,FB7	Bellcore Issue 6	Level I		0.002259	4.00	.0763	0.009035	442706854.87
1231332721	Miscellaneous	Y2	Bellcore Issue 6	Level I		0.150000	1.00	1.2668	0.150000	6666666.67
1124522280	Capacitor	C274,C374	Bellcore Issue 6	Level I		0.004518	2.00	.0763	0.009035	221353427.43
1124522880	Capacitor	C151	Bellcore Issue 6	Level I		0.004518	1.00	.0382	0.004518	221353427.43
1300414840	Semiconductor	D26	Bellcore Issue 6	Level I		0.023744	1.00	.2005	0.023744	42115875.63
1301005440	Semiconductor	D11,D16,D17,D35	Bellcore Issue 6	Level I		0.023744	4.00	.8021	0.094976	42115875.63
1301005441	Semiconductor	D19,D20,D23,D7,D8	Bellcore Issue 6	Level I		0.023744	5.00	1.0026	0.118720	42115875.63
1302001240	Semiconductor	D13,D6	Bellcore Issue 6	Level I		0.027106	2.00	.4578	0.054212	36892237.91
1311390610	Semiconductor	Q11,Q18	Bellcore Issue 6	Level I		0.023744	2.00	.4010	0.047488	42115875.63
14S4021301	Integrated Circuit	U14,U15,U54-U56	Bellcore Issue 6	Level I		0.058503	5.00	2.4703	0.292516	17093092.17
1651203291	Connection	U8	Bellcore Issue 6	Level I	12.70	0.034079	1.00	.2878	0.034079	29343337.24
14S4911216	Integrated Circuit	U7	Bellcore Issue 6	Level I	16.70	0.098514	1.00	.8320	0.098514	10150880.64
1653005202	Connection	CN6	Bellcore Issue 6	Level I		0.005631	1.00	.0476	0.005631	177603733.44
1653007204	Connection	CN7	Bellcore Issue 6	Level I		0.007883	1.00	.0666	0.007883	126859809.60
14S6334610	Integrated Circuit	U32,U35	Bellcore Issue 6	Level I		0.030153	2.00	.5093	0.060307	33163858.24
1301005442	Semiconductor	D3,D9	Bellcore Issue 6	Level I		0.023744	2.00	.4010	0.047488	42115875.63
1212306035	Inductor	FB10,FB11,FB13,FB18-FB25,FB31- -FB33,FB35,FB9	Bellcore Issue 6	Level I		0.002259	16.00	.3052	0.036141	442706854.87
14S5A01400	Integrated Circuit	U26,U46	Bellcore Issue 6	Level I		0.058503	2.00	.9881	0.117006	17093092.17
105A512033	Resistor	R79	Bellcore Issue 6	Level I		0.002259	1.00	.0191	0.002259	442706854.87
105A733033	Resistor	R77	Bellcore Issue 6	Level I		0.002259	1.00	.0191	0.002259	442706854.87
105A503423	Resistor	R383	Bellcore Issue 6	Level I		0.002259	1.00	.0191	0.002259	442706854.87
1310390411	Semiconductor	Q21,Q7,Q8	Bellcore Issue 6	Level I		0.023744	3.00	.6016	0.071232	42115875.63
1315700212	Semiconductor	Q1,Q10,Q12-Q17,Q19,Q2,Q20,Q5,- Q9	Bellcore Issue 6	Level I		0.079147	13.00	8.6892	1.028907	12634762.69
105A547003	Resistor	R186,R208	Bellcore Issue 6	Level I		0.002259	2.00	.0382	0.004518	442706854.87
1540710382	Resistor	RP4,RP43-RP45,RP48,RP59,RP68- ,RP74,RP82,RP83,RP85	Bellcore Issue 6	Level I		0.006189	11.00	.5749	0.068080	161574538.37

AAEON Reliability Prediction Report

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Reference Des
Date 10. 8, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80



Description
File Name TF-AEC-6510-A1-1010.RPJ
Time 9:39 上午
Failure Rate 11.841170
MTBF 84,451

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1540733085	Resistor	RP102-RP107,RP27-RP42,RP86-R-P90	Bellcore Issue 6	Level I		0.006189	27.00	1.4112	0.167106	161574538.37
105A700103	Resistor	R289,R290,R298	Bellcore Issue 6	Level I		0.002259	3.00	.0572	0.006776	442706854.87
105A568123	Resistor	R80	Bellcore Issue 6	Level I		0.002259	1.00	.0191	0.002259	442706854.87
105A516513	Resistor	R3	Bellcore Issue 6	Level I		0.002259	1.00	.0191	0.002259	442706854.87
105A506823	Resistor	R160,R191	Bellcore Issue 6	Level I		0.002259	2.00	.0382	0.004518	442706854.87
1540722085	Resistor	RP1,RP2,RP50-RP52,RP54,RP56,-RP57,RP69-RP73,RP77-RP79	Bellcore Issue 6	Level I		0.006189	16.00	.8363	0.099026	161574538.37
1540700081	Resistor	RP100,RP60-RP67,RP95,RP96,RP-98	Bellcore Issue 6	Level I		0.006189	12.00	.6272	0.074269	161574538.37
105A700139	Resistor	R177,R181,R195,R220,R228,R235-,R286,R296,R302,R306,R307,R310-,R325,R338,R340,R344,R346,R376-,R382,R82,R96,R97	Bellcore Issue 6	Level I		0.002259	22.00	.4197	0.049694	442706854.87
105A704729	Resistor	R110,R158,R159,R170,R171,R198-,R203,R267,R269,R272,R273,R28-,R345,R350,R355,R357,R359,R402-,R403,R442,R461,R462,R87,R9	Bellcore Issue 6	Level I		0.002259	24.00	.4578	0.054212	442706854.87
105A704729	Resistor	R93,R95,R98,R99	Bellcore Issue 6	Level I		0.002259	4.00	.0763	0.009035	442706854.87
105A701039	Resistor	R113,R115,R129,R130,R136,R163-,R165,R17,R176,R193,R197,R200-,R207,R210,R214,R217,R219,R221-,R222,R225,R226,R229-R233	Bellcore Issue 6	Level I		0.002259	26.00	.4960	0.058730	442706854.87
105A701039	Resistor	R238,R265,R279,R283,R284,R292-,R293,R299,R300,R303,R316,R339-,R395,R396,R8,R92	Bellcore Issue 6	Level I		0.002259	16.00	.3052	0.036141	442706854.87
105A710009	Resistor	R164,R81	Bellcore Issue 6	Level I		0.002259	2.00	.0382	0.004518	442706854.87
105A703309	Resistor	R100,R106,R114,R126,R196,R199-,R275,R282,R315,R334,R337,R349-,R388,R389,R420,R423,R57,R59-R-74	Bellcore Issue 6	Level I		0.002259	33.00	.6295	0.074541	442706854.87
105A702229	Resistor	R174,R245,R246,R27,R347,R348,-R426	Bellcore Issue 6	Level I		0.002259	7.00	.1335	0.015812	442706854.87
105A733009	Resistor	R152,R154-R156,R161,R168,R178-,R367,R407,R408,R448,R7	Bellcore Issue 6	Level I		0.002259	12.00	.2289	0.027106	442706854.87
1129710090	Capacitor	C107,C116,C349,C398,C400,C411-,C413,C415	Bellcore Issue 6	Level I		0.004518	9.00	.3434	0.040659	221353427.43
1129722091	Capacitor	C11,C14,C187,C74,C75	Bellcore Issue 6	Level I		0.004518	5.00	.1908	0.022588	221353427.43
1129710390	Capacitor	C10,C13	Bellcore Issue 6	Level I		0.004518	2.00	.0763	0.009035	221353427.43

AAEON Reliability Prediction Report

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Date 10. 8, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80



Description
File Name TF-AEC-6510-A1-1010.RPJ
Time 9:39 上午
Failure Rate 11.841170
MTBF 84,451

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1129701790	Capacitor	C130-C133,C139,C240,C258,C292-,C294,C296,C307,C316,C317,C320-,C326,C337,C339,C340,C366,C414	Bellcore Issue 6	Level I		0.004518	20.00	.7630	0.090353	221353427.43
1301053040	Semiconductor	D4,D5	Bellcore Issue 6	Level I		0.023744	2.00	.4010	0.047488	42115875.63
1315970110	Semiconductor	U42,U43	Bellcore Issue 6	Level I		0.079147	2.00	1.3368	0.158293	12634762.69
1174522180	Capacitor	CP1,CP10,CP11,CP2-CP9	Bellcore Issue 6	Level I		0.005458	11.00	.5071	0.060043	183201032.40
121230805D	Inductor	FB38	Bellcore Issue 6	Level I		0.002259	1.00	.0191	0.002259	442706854.87
14S5A12503	Integrated Circuit	U23	Bellcore Issue 6	Level I		0.038836	1.00	.3280	0.038836	25749195.34
106B501031	Resistor	RT1,RT2	Bellcore Issue 6	Level I		0.011261	2.00	.1902	0.022522	88801866.72
14S2303700	Integrated Circuit	U22	Bellcore Issue 6	Level I		0.058503	1.00	.4941	0.058503	17093092.17
14S2202600	Integrated Circuit	U25,U48	Bellcore Issue 6	Level I		0.058503	2.00	.9881	0.117006	17093092.17
1653222208	Connection	CN1	Bellcore Issue 6	Level I		0.024774	1.00	.2092	0.024774	40364484.87
1301000340	Semiconductor	D15,D18	Bellcore Issue 6	Level I		0.023744	2.00	.4010	0.047488	42115875.63
14S4813905	Integrated Circuit	U10	Bellcore Issue 6	Level I	13.60	0.083509	1.00	.7052	0.083509	11974808.32
14S4813905	Integrated Circuit	U33	Bellcore Issue 6	Level I	15.80	0.093931	1.00	.7933	0.093931	10646149.47
1311119710	Semiconductor	Q3,Q6	Bellcore Issue 6	Level I		0.023744	2.00	.4010	0.047488	42115875.63
14S5801402	Integrated Circuit	U11	Bellcore Issue 6	Level I		0.038836	1.00	.3280	0.038836	25749195.34
1654262300	Connection	MPCI1	Bellcore Issue 6	Level I		0.069818	1.00	.5896	0.069818	14322881.73
1304001340	Semiconductor	D24	Bellcore Issue 6	Level I		0.004788	1.00	.0404	0.004788	208850651.61
1304101340	Semiconductor	D1	Bellcore Issue 6	Level I		0.004788	1.00	.0404	0.004788	208850651.61
1653217209	Connection	CN2	Bellcore Issue 6	Level I		0.019144	1.00	.1617	0.019144	52236392.19
105A710039	Resistor	R107,R175,R182-R184,R192,R194-,R368-R370,R94	Bellcore Issue 6	Level I		0.002259	11.00	.2098	0.024847	442706854.87
105A701539	Resistor	R285,R305	Bellcore Issue 6	Level I		0.002259	2.00	.0382	0.004518	442706854.87
105A507509	Resistor	R312,R313,R317	Bellcore Issue 6	Level I		0.002259	3.00	.0572	0.006776	442706854.87
105A705629	Resistor	R212,R218,R253,R259,R270,R276-,R374	Bellcore Issue 6	Level I		0.002259	7.00	.1335	0.015812	442706854.87
1124427090	Capacitor	C114,C115,C286,C290,C449	Bellcore Issue 6	Level I		0.004518	5.00	.1908	0.022588	221353427.43
1124433090	Capacitor	C257,C368	Bellcore Issue 6	Level I		0.004518	2.00	.0763	0.009035	221353427.43
1653213207	Connection	CN3	Bellcore Issue 6	Level I		0.014639	1.00	.1236	0.014639	68309128.25
105A549969	Resistor	R139-R146	Bellcore Issue 6	Level I		0.002259	8.00	.1526	0.018071	442706854.87
105A500139	Resistor	R2,R414,R463,R465	Bellcore Issue 6	Level I		0.002259	4.00	.0763	0.009035	442706854.87

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Reference Des
Date 10. 8, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80

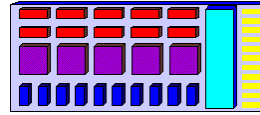


Description
File Name TF-AEC-6510-A1-1010.RPJ
Time 9:39 上午
Failure Rate 11.841170
MTBF 84,451

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A501039	Resistor	R162,R166,R167,R179,R180,R188-R189,R55,R56	Bellcore Issue 6	Level I		0.002259	9.00	.1717	0.020329	442706854.87
1653925216	Connection	CFD1	Bellcore Issue 6	Level I		0.028153	1.00	.2378	0.028153	35520746.69
1315992601	Semiconductor	U27	Bellcore Issue 6	Level I		0.158293	1.00	1.3368	0.158293	6317381.35
1124410190	Capacitor	C159-C161,C167,C168	Bellcore Issue 6	Level I		0.004518	5.00	.1908	0.022588	221353427.43
105A705139	Resistor	R443-R445,R450,R451	Bellcore Issue 6	Level I		0.002259	5.00	.0954	0.011294	442706854.87
14S3156500	Integrated Circuit	U6	Bellcore Issue 6	Level I		0.058503	1.00	.4941	0.058503	17093092.17
105A702269	Resistor	R148,R149,R242,R255,R5,R6	Bellcore Issue 6	Level I		0.002259	6.00	.1145	0.013553	442706854.87
1124568280	Capacitor	C145	Bellcore Issue 6	Level I		0.004518	1.00	.0382	0.004518	221353427.43
1129722060	Capacitor	C109,C153,C264,C358	Bellcore Issue 6	Level I		0.004518	4.00	.1526	0.018071	221353427.43
14S9820800	Integrated Circuit	U40	Bellcore Issue 6	Level I		0.038836	1.00	.3280	0.038836	25749195.34
1124522190	Capacitor	C329,C332,C355	Bellcore Issue 6	Level I		0.004518	3.00	.1145	0.013553	221353427.43
1129610051	Capacitor	C18,C185,C19,C204,C205,C208,C-214,C215,C249,C266,C283,C289,C-3,C306,C311,C312,C314,C315,C32-8,C345,C353,C364,C373,C384	Bellcore Issue 6	Level I		0.004518	24.00	.9157	0.108424	221353427.43
1129610051	Capacitor	C385,C401,C422,C423,C8,C84,C85-C92	Bellcore Issue 6	Level I		0.004518	8.00	.3052	0.036141	221353427.43
1653006203	Connection	JP5	Bellcore Issue 6	Level I		0.006757	1.00	.0571	0.006757	148003111.20
121230603L	Inductor	FB15,FB43	Bellcore Issue 6	Level I		0.002259	2.00	.0382	0.004518	442706854.87
14S4048502	Integrated Circuit	U41,U45	Bellcore Issue 6	Level I		0.058503	2.00	.9881	0.117006	17093092.17
1050502204	Resistor	R101,R102,R105,R109,R116,R120-R121,R123-R125,R131-R135,R147-R169,R236,R239,R247-R251,R326-R335,R336,R387,R86,R88-R90	Bellcore Issue 6	Level I		0.002259	32.00	.6104	0.072283	442706854.87
14S4081110	Integrated Circuit	U18	Bellcore Issue 6	Level I		0.058503	1.00	.4941	0.058503	17093092.17
11E9610190	Capacitor	C12,C15,C157,C166,C174-C179,C-183,C188,C189,C199,C20,C201,C2-30,C234,C293,C295,C302,C303,C3-09,C322-C324,C327,C338,C341	Bellcore Issue 6	Level I		0.042229	29.00	10.3422	1.224636	23680497.79
11E9501090	Capacitor	C361,C417,C424,C76,C9,C99	Bellcore Issue 6	Level I		0.042229	6.00	2.1398	0.253373	23680497.79
14S5A03200	Integrated Circuit	U36	Bellcore Issue 6	Level I		0.038836	1.00	.3280	0.038836	25749195.34
105A501623	Resistor	R333	Bellcore Issue 6	Level I		0.002259	1.00	.0191	0.002259	442706854.87
1189622189	Capacitor	TC3,TC6	Bellcore Issue 6	Level I		0.004518	2.00	.0763	0.009035	221353427.43
105A514713	Resistor	R258,R332	Bellcore Issue 6	Level I		0.002259	2.00	.0382	0.004518	442706854.87

AAEON Reliability Prediction Report

Part Number 969753150L-DIP
Reference Des
Date 10. 8, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80



Description
File Name TF-AEC-6510-A1-1010.RPJ
Time 9:39 上午
Failure Rate 11.841170
MTBF 84,451

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
14S3149103	Integrated Circuit	U13	Bellcore Issue 6	Level I	18.90	0.110554	1.00	.9336	0.110554	9045366.90
14S2272700	Integrated Circuit	U30,U39	Bellcore Issue 6	Level I		0.058503	2.00	.9881	0.117006	17093092.17
1211104769	Inductor	L2,L3	Bellcore Issue 6	Level I		0.085836	2.00	1.4498	0.171671	11650180.39
14S4758300	Integrated Circuit	U37	Bellcore Issue 6	Level I	10.80	0.071725	1.00	.6057	0.071725	13942087.52
123131435B	Miscellaneous	Y3	Bellcore Issue 6	Level I		0.150000	1.00	1.2668	0.150000	6666666.67
1231325058	Miscellaneous	Y4,Y5	Bellcore Issue 6	Level I		0.150000	2.00	2.5335	0.300000	6666666.67
1231324555	Miscellaneous	Y1	Bellcore Issue 6	Level I		0.150000	1.00	1.2668	0.150000	6666666.67
14S4121601	Integrated Circuit	U34	Bellcore Issue 6	Level I		0.038836	1.00	.3280	0.038836	25749195.34
14S3020300	Integrated Circuit	U24	Bellcore Issue 6	Level I	22.70	0.274286	1.00	2.3164	0.274286	3645829.71
1315313800	Integrated Circuit	U4,U44	Bellcore Issue 6	Level I		0.058503	2.00	.9881	0.117006	17093092.17
1654040001	Connection	CN12	Bellcore Issue 6	Level I		0.022522	1.00	.1902	0.022522	44400933.36
14S3128421	Integrated Circuit	U16	Bellcore Issue 6	Level I		0.058503	1.00	.4941	0.058503	17093092.17
14S4195710	Integrated Circuit	U50	Bellcore Issue 6	Level I		0.058503	1.00	.4941	0.058503	17093092.17
1189633192	Capacitor	TC2,TC4	Bellcore Issue 6	Level I		0.004518	2.00	.0763	0.009035	221353427.43
105A501413	Resistor	R412	Bellcore Issue 6	Level I		0.002259	1.00	.0191	0.002259	442706854.87
14S4871204	Integrated Circuit	U1	Bellcore Issue 6	Level I	8.80	0.064232	1.00	.5424	0.064232	15568674.23
14S5A12506	Integrated Circuit	U28	Bellcore Issue 6	Level I		0.038836	1.00	.3280	0.038836	25749195.34
121110336L	Inductor	L1	Bellcore Issue 6	Level I		0.085836	1.00	.7249	0.085836	11650180.39
14S4553600	Integrated Circuit	U3	Bellcore Issue 6	Level I		0.038836	1.00	.3280	0.038836	25749195.34
14S5A00821	Integrated Circuit	U17,U49	Bellcore Issue 6	Level I		0.038836	2.00	.6560	0.077672	25749195.34
1189615150	Capacitor	C226,C435,C437,C439,C440	Bellcore Issue 6	Level I		0.004518	5.00	.1908	0.022588	221353427.43
1121533480	Capacitor	C444,C445	Bellcore Issue 6	Level I		0.004518	2.00	.0763	0.009035	221353427.43
14S3524700	Integrated Circuit	U53	Bellcore Issue 6	Level I		0.058503	1.00	.4941	0.058503	17093092.17
165320520G	Connection	CN13,CN21,CN5	Bellcore Issue 6	Level I		0.005631	3.00	.1427	0.016892	177603733.44
165320520G	Connection	CN13,CN21,CN23-CN25,CN5	Bellcore Issue 6	Level I		0.005631	3.00	.1427	0.016892	177603733.44
1655901000	Connection	CN26	Bellcore Issue 6	Level I		0.005631	1.00	.0476	0.005631	177603733.44
1315667910	Semiconductor	U5,U9	Bellcore Issue 6	Level I		0.079147	2.00	1.3368	0.158293	12634762.69
14S4800004	Integrated Circuit	U12	Bellcore Issue 6	Level I		0.033452	1.00	.2825	0.033452	29893532.62
1305100541	Semiconductor	D27-D34	Bellcore Issue 6	Level I		0.023744	8.00	1.6042	0.189952	42115875.63
1214309000	Inductor	CH1-CH4	Bellcore Issue 6	Level I		0.002259	4.00	.0763	0.009035	442706854.87
11E1647650	Capacitor	C128,C242	Bellcore Issue 6	Level I		0.042229	2.00	.7133	0.084458	23680497.79

AAEON Reliability Prediction Report

Part Number 969753150L-DIP
Reference Des
Date 10. 8, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80



Description
File Name TF-AEC-6510-A1-1010.RPJ
Time 9:39 上午
Failure Rate 11.841170
MTBF 84,451

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A747009	Resistor	R418,R419	Bellcore Issue 6	Level I		0.002259	2.00	.0382	0.004518	442706854.87
1300001440	Semiconductor	D36,D37	Bellcore Issue 6	Level I		0.023744	2.00	.4010	0.047488	42115875.63
1121701680	Capacitor	C140,C196,C198,C377,C403,C406-C408,C73	Bellcore Issue 6	Level I		0.004518	8.00	.3052	0.036141	221353427.43
105A700009	Resistor	R122,R150,R153,R18,R19,R202,R-260,R261,R274,R277,R280,R281,R-287,R304,R309,R327,R329,R397,R-398,R400,R401,R410,R411	Bellcore Issue 6	Level I		0.002259	23.00	.4387	0.051953	442706854.87
105A700009	Resistor	R416,R421,R429,R431,R435-R441-R78	Bellcore Issue 6	Level I		0.002259	12.00	.2289	0.027106	442706854.87
1129701690	Capacitor	C1,C100,C106,C108,C110,C112,C-113,C117-C120,C122,C127,C129,-C135-C137,C141-C143,C147,C149-C150,C152,C156,C158,C16	Bellcore Issue 6	Level I		0.004518	27.00	1.0301	0.121977	221353427.43
1129701690	Capacitor	C162-C165,C17,C173,C181,C182,-C184,C186,C190-C193,C197,C2,C-202,C203,C206,C207,C211,C213,C-217,C219-C225,C227,C229	Bellcore Issue 6	Level I		0.004518	32.00	1.2209	0.144565	221353427.43
1129701690	Capacitor	C23,C232,C233,C235-C239,C243,-C245-C248,C250-C252,C254-C256-C259-C263,C26,C265,C267-C270,-C272,C275,C277-C282,C28	Bellcore Issue 6	Level I		0.004518	39.00	1.4879	0.176189	221353427.43
1129701690	Capacitor	C285,C288,C297-C299,C30,C300,-C301,C304,C305,C308,C310,C313-C319,C32,C321,C325,C330,C331,-C333-C336,C342-C344,C346	Bellcore Issue 6	Level I		0.004518	27.00	1.0301	0.121977	221353427.43
1129701690	Capacitor	C347,C348,C350-C352,C357,C36,-C362,C363,C365,C369-C372,C376-C378-C383,C386-C392,C396,C397-C399,C4,C40,C402,C404	Bellcore Issue 6	Level I		0.004518	35.00	1.3353	0.158118	221353427.43
1129701690	Capacitor	C410,C416,C418-C421,C425,C43,-C434,C436,C438,C44,C441,C443,-C452-C457,C5,C57,C63,C65-C67,-C69,C7,C70,C77,C78,C81-C83	Bellcore Issue 6	Level I		0.004518	34.00	1.2972	0.153601	221353427.43
1129701690	Capacitor	C87,C90,C94,C95,C96	Bellcore Issue 6	Level I		0.004518	5.00	.1908	0.022588	221353427.43
14S6200800	Integrated Circuit	U8	Bellcore Issue 6	Level I		0.185704	1.00	1.5683	0.185704	5384902.37

AAEON Reliability Prediction Report

Part Number 9697P02D11-DIP
Reference Des
Date 10. 8, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80



Description
File Name TF-AEC-6510-A1-1010.RPJ
Time 9:39 上午
Failure Rate 1.779774
MTBF 561,869

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1653002101	Connection	JP5	Bellcore Issue 6	Level I		0.001126	1.00	.0633	0.001126	888018667.20
1653003101	Connection	JP1	Bellcore Issue 6	Level I		0.001126	1.00	.0633	0.001126	888018667.20
1655004011	Connection	JP2	Bellcore Issue 6	Level I		0.001126	1.00	.0633	0.001126	888018667.20
1655305020	Connection	J1	Bellcore Issue 6	Level I		0.022522	1.00	1.2654	0.022522	44400933.36
1211101001	Inductor	L1	Bellcore Issue 6	Level I		0.002259	1.00	.1269	0.002259	442706854.87
1655103010	Connection	SW1	Bellcore Issue 6	Level I		0.022522	1.00	1.2654	0.022522	44400933.36
1119622200	Capacitor	CE1	Bellcore Issue 6	Level I		0.070381	1.00	3.9545	0.070381	14208298.68
1656304022	Connection	JP4	Bellcore Issue 6	Level I		0.001126	1.00	.0633	0.001126	888018667.20
1181618110	Capacitor	CE8	Bellcore Issue 6	Level I		0.004518	1.00	.2538	0.004518	221353427.43
1211100600	Inductor	L2,L3	Bellcore Issue 6	Level I		0.002259	2.00	.2538	0.004518	442706854.87
1119622112	Capacitor	CE2,CE5	Bellcore Issue 6	Level I		0.042229	2.00	4.7454	0.084458	23680497.79
1189647010	Capacitor	CE3	Bellcore Issue 6	Level I		0.004518	1.00	.2538	0.004518	221353427.43
1652003102	Connection	PowerIn	Bellcore Issue 6	Level I		0.022522	1.00	1.2654	0.022522	44400933.36
105A501033	Resistor	R13,R3	Bellcore Issue 6	Level I		0.002259	2.00	.2538	0.004518	442706854.87
105A700003	Resistor	R14,R15,R24	Bellcore Issue 6	Level I		0.002259	3.00	.3808	0.006776	442706854.87
105A701003	Resistor	R21	Bellcore Issue 6	Level I		0.002259	1.00	.1269	0.002259	442706854.87
105A701053	Resistor	R1,R20,R9	Bellcore Issue 6	Level I		0.002259	3.00	.3808	0.006776	442706854.87
1059700101	Resistor	R8	Bellcore Issue 6	Level I		0.002259	1.00	.1269	0.002259	442706854.87
105A510033	Resistor	R12,R19	Bellcore Issue 6	Level I		0.002259	2.00	.2538	0.004518	442706854.87
105A704733	Resistor	R2	Bellcore Issue 6	Level I		0.002259	1.00	.1269	0.002259	442706854.87
1121733780	Capacitor	C26	Bellcore Issue 6	Level I		0.004518	1.00	.2538	0.004518	221353427.43
1122722780	Capacitor	C5	Bellcore Issue 6	Level I		0.004518	1.00	.2538	0.004518	221353427.43
1124501780	Capacitor	C18	Bellcore Issue 6	Level I		0.004518	1.00	.2538	0.004518	221353427.43
1124510280	Capacitor	C16,C17,C2,C22,C24	Bellcore Issue 6	Level I		0.004518	5.00	1.2692	0.022588	221353427.43
1124515281	Capacitor	C20	Bellcore Issue 6	Level I		0.004518	1.00	.2538	0.004518	221353427.43
1124518180	Capacitor	C15,C23	Bellcore Issue 6	Level I		0.004518	2.00	.5077	0.009035	221353427.43
1124522180	Capacitor	C3	Bellcore Issue 6	Level I		0.004518	1.00	.2538	0.004518	221353427.43
1129747650	Capacitor	C6	Bellcore Issue 6	Level I		0.004518	1.00	.2538	0.004518	221353427.43
1315441010	Semiconductor	Q7	Bellcore Issue 6	Level I	9.30	0.102600	1.00	5.7648	0.102600	9746597.22
1315441010	Semiconductor	Q3,Q4,Q8	Bellcore Issue 6	Level I		0.079147	3.00	13.3410	0.237440	12634762.69
1124410180	Capacitor	C19,C21,C4	Bellcore Issue 6	Level I		0.004518	3.00	.7615	0.013553	221353427.43

