

EMB-945T Reliability Prediction Report (MTBF)

Report NO : 06E070004

4-3-2006

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** EMB-945T

II . **Prediction Date:** Apr. 3, 2006

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: 22.9 degrees C
- Standard: Telcordia (Bellcore) Standard

VII. Term and Definition:

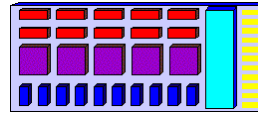
- Unit : An assembly of device.
- Duty Cycle : Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure 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:

- EMB-945T
 - Failure Rate: 13.289192 ppm
 - MTBF: 75,249 Hours

AAEON Reliability Prediction Report

Part Number 9697945T00
Reference Des
Date 04. 3, 2006
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 22.90

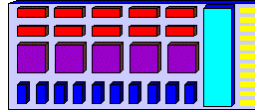


Description Top-level assembly
File Name 9697945T00.RPJ
Time 10:09 上午
Failure Rate 13.289192
MTBF 75,249

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
EMB-945T	9697945T00	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	13.289192	75,249

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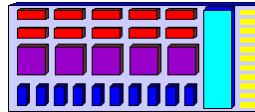


Description Top-level assembly
File Name 9697945T00.RPJ
Time 10:09 上午
Failure Rate 13.289192
MTBF 75,249

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1653003100	Connection	JP2,JP4,JP6	Bellcore Issue 6	Level I		0.001528	3.00	.0345	0.004585	654310589.50
1653003101	Connection	JP1	Bellcore Issue 6	Level I		0.001528	1.00	.0115	0.001528	654310589.50
1655304020	Connection	CN7	Bellcore Issue 6	Level I		0.002038	1.00	.0153	0.002038	490732942.13
1655005021	Connection	CN4	Bellcore Issue 6	Level I		0.002547	1.00	.0192	0.002547	392586353.70
1750119011	Miscellaneous	BAT1	Bellcore Issue 6	Level I		0.900000	1.00	6.7724	0.900000	1111111.11
1653006101	Connection	CN18	Bellcore Issue 6	Level I		0.003057	1.00	.0230	0.003057	327155294.75
1655306021	Connection	CN8	Bellcore Issue 6	Level I		0.003057	1.00	.0230	0.003057	327155294.75
1111610192	Capacitor	EC1-EC4	Bellcore Issue 6	Level I		0.038208	4.00	1.1501	0.152833	26172423.58
1655004022	Connection	CN1	Bellcore Issue 6	Level I		0.002038	1.00	.0153	0.002038	490732942.13
1654612304	Connection	KBMS1	Bellcore Issue 6	Level I		0.003057	1.00	.0230	0.003057	327155294.75
1654530300	Connection	CRTAUD1	Bellcore Issue 6	Level I		0.015283	1.00	.1150	0.015283	65431058.95
1654543500	Connection	PCON1	Bellcore Issue 6	Level I		0.021906	1.00	.1648	0.021906	45649576.01
1653900034	Connection	CN24	Bellcore Issue 6	Level I		0.025472	1.00	.1917	0.025472	39258635.37
1112610210	Capacitor	EC5	Bellcore Issue 6	Level I		0.063680	1.00	.4792	0.063680	15703454.15
1759100008	Miscellaneous	BUZZ1	Bellcore Issue 6	Level I		0.150000	1.00	1.1287	0.150000	6666666.67
1655417020	Connection	CN19	Bellcore Issue 6	Level I		0.127361	1.00	.9584	0.127361	7851727.07
1750220323	Connection	BAT1	Bellcore Issue 6	Level I		0.001019	1.00	.0077	0.001019	981465884.26
1652522201	Connection	RJUSB1	Bellcore Issue 6	Level I		0.011208	1.00	.0843	0.011208	89224171.30
1169682190	Capacitor	C148	Bellcore Issue 6	Level I		0.005391	1.00	.0406	0.005391	185506681.24
1653005206	Connection	CN23	Bellcore Issue 6	Level I		0.005094	1.00	.0383	0.005094	196293176.85
1111610211	Capacitor	EC7	Bellcore Issue 6	Level I		0.063680	1.00	.4792	0.063680	15703454.15
1654218200	Connection	PCIE1	Bellcore Issue 6	Level I		0.018340	1.00	.1380	0.018340	54525882.46
14S6200403	Integrated Circuit	U9	Bellcore Issue 6	Level I	15.70	0.041111	1.00	.3094	0.041111	24324258.74
1655004014	Connection	CN15,CN5	Bellcore Issue 6	Level I		0.002038	2.00	.0307	0.004076	490732942.13
1654907002	Connection	SATA1,SATA2	Bellcore Issue 6	Level I		0.003566	2.00	.0537	0.007132	280418824.07
111961029F	Capacitor	EC6,EC8	Bellcore Issue 6	Level I		0.063680	2.00	.9584	0.127361	15703454.15
105A500233	Resistor	R198,R679,R729	Bellcore Issue 6	Level I		0.002176	3.00	.0491	0.006527	459632959.83
105A511823	Resistor	R717	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A512103	Resistor	R157,R577	Bellcore Issue 6	Level I		0.002176	2.00	.0327	0.004351	459632959.83
105A700003	Resistor	FB1,FB5,FB6,FB8,FB9,L30,L31,L36-R702	Bellcore Issue 6	Level I		0.002176	9.00	.1473	0.019581	459632959.83

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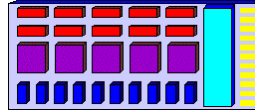


Description Top-level assembly
File Name 9697945T00.RPJ
Time 10:09 上午
Failure Rate 13.289192
MTBF 75,249

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A701003	Resistor	R248,R249,R305-R308,R313-R325-,R476,R573,R731,R745,R753	Bellcore Issue 6	Level I		0.002176	24.00	.3929	0.052216	459632959.83
105A701053	Resistor	R431,R646	Bellcore Issue 6	Level I		0.002176	2.00	.0327	0.004351	459632959.83
105A715003	Resistor	R19,R20,R351,R5	Bellcore Issue 6	Level I		0.002176	4.00	.0655	0.008703	459632959.83
105A747003	Resistor	R309,R711	Bellcore Issue 6	Level I		0.002176	2.00	.0327	0.004351	459632959.83
1059700001	Resistor	FB2-FB4,FB7,L13,L19,L20,L22,L25-,L28,L29,L32,L4,L40,L42,L44,L47,L-5,L58,L79-L81	Bellcore Issue 6	Level I		0.002176	22.00	.3602	0.047864	459632959.83
1059700001	Resistor	R311,R337,R369,R472,R699,R700-,R705,R706,R718	Bellcore Issue 6	Level I		0.002176	9.00	.1473	0.019581	459632959.83
105A500133	Resistor	R197,R45,R47,R685,R743	Bellcore Issue 6	Level I		0.002176	5.00	.0819	0.010878	459632959.83
105A501223	Resistor	R338	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A501523	Resistor	R417	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A502033	Resistor	R234,R656,R684	Bellcore Issue 6	Level I		0.002176	3.00	.0491	0.006527	459632959.83
105A503033	Resistor	R422	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A505103	Resistor	R194	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A505623	Resistor	R2,R737	Bellcore Issue 6	Level I		0.002176	2.00	.0327	0.004351	459632959.83
105A507503	Resistor	R643	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A515003	Resistor	R357-R359,R376-R378,R458-R460-,R482,R483,R500	Bellcore Issue 6	Level I		0.002176	12.00	.1965	0.026108	459632959.83
105A548713	Resistor	R385	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A549913	Resistor	R466	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A701203	Resistor	R74,R77,R81	Bellcore Issue 6	Level I		0.002176	3.00	.0491	0.006527	459632959.83
105A704733	Resistor	R286,R287	Bellcore Issue 6	Level I		0.002176	2.00	.0327	0.004351	459632959.83
105A503633	Resistor	R296,R689	Bellcore Issue 6	Level I		0.002176	2.00	.0327	0.004351	459632959.83
1231332721	Miscellaneous	Y3	Bellcore Issue 6	Level I		0.150000	1.00	1.1287	0.150000	6666666.67
1122722780	Capacitor	C673,C685	Bellcore Issue 6	Level I		0.004351	2.00	.0655	0.008703	229816479.92
1124422080	Capacitor	C332,C333	Bellcore Issue 6	Level I		0.004351	2.00	.0655	0.008703	229816479.92
1124510280	Capacitor	C171	Bellcore Issue 6	Level I		0.004351	1.00	.0327	0.004351	229816479.92
1124518180	Capacitor	C665	Bellcore Issue 6	Level I		0.004351	1.00	.0327	0.004351	229816479.92
1124527080	Capacitor	C240-C242,C246,C56,C62	Bellcore Issue 6	Level I		0.004351	6.00	.1965	0.026108	229816479.92
1124433080	Capacitor	C321,C335,C433,C434	Bellcore Issue 6	Level I		0.004351	4.00	.1310	0.017405	229816479.92
1124539180	Capacitor	C649	Bellcore Issue 6	Level I		0.004351	1.00	.0327	0.004351	229816479.92

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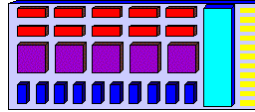


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File Name 9697945T00.RPJ
Time 10:09 上午
Failure Rate 13.289192
MTBF 75,249

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1540710080	Resistor	RN1,RN10-RN12,RN2-RN9	Bellcore Issue 6	Level I		0.005670	12.00	.5120	0.068044	176357688.34
1129747650	Capacitor	C100,C158,C404,C484,C560,C565-C678,C68,C682,C691	Bellcore Issue 6	Level I		0.004351	10.00	.3274	0.043513	229816479.92
1301005440	Semiconductor	D11,D14-D16,D19,D21,D4-D6	Bellcore Issue 6	Level I		0.022473	9.00	1.5219	0.202254	44498466.71
1174510180	Capacitor	CP1,CP10-CP12,CP2-CP4,CP9	Bellcore Issue 6	Level I		0.005391	8.00	.3245	0.043125	185506681.24
1301005441	Semiconductor	D1	Bellcore Issue 6	Level I		0.022473	1.00	.1691	0.022473	44498466.71
1310390410	Semiconductor	Q23,Q3,Q4,Q40	Bellcore Issue 6	Level I		0.022473	4.00	.6764	0.089891	44498466.71
14S3006000	Semiconductor	DN1	Bellcore Issue 6	Level I		0.435130	1.00	3.2743	0.435130	2298164.80
14S3128420	Resistor	U24	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
1124556280	Capacitor	C168	Bellcore Issue 6	Level I		0.004351	1.00	.0327	0.004351	229816479.92
1653003202	Connection	JP3,JP5	Bellcore Issue 6	Level I		0.003057	2.00	.0460	0.006113	327155294.75
1653207201	Connection	CN6	Bellcore Issue 6	Level I		0.007132	1.00	.0537	0.007132	140209412.04
1653210201	Connection	CN11	Bellcore Issue 6	Level I		0.010189	1.00	.0767	0.010189	98146588.43
1653205201	Connection	CN13,CN14,CN16,CN17,CN2,CN20-CN21	Bellcore Issue 6	Level I		0.005094	7.00	.2683	0.035661	196293176.85
14S4048501	Integrated Circuit	U32,U33	Bellcore Issue 6	Level I		0.050856	2.00	.7654	0.101713	19663236.03
1301005442	Semiconductor	D2,D3,D31	Bellcore Issue 6	Level I		0.022473	3.00	.5073	0.067418	44498466.71
1212306033	Inductor	L1,L10-L12,L33-L39,L41,L48,L50-L56,L59,L63-L65,L71,L73-L76	Bellcore Issue 6	Level I		0.002176	29.00	.4748	0.063094	459632959.83
14S4021310	Integrated Circuit	U23,U25,U35,U36,U39,U40	Bellcore Issue 6	Level I		0.050856	6.00	2.2961	0.305138	19663236.03
1315700211	Semiconductor	Q13,Q15,Q17,Q18,Q21,Q22,Q25-Q28,Q8	Bellcore Issue 6	Level I		0.074909	11.00	6.2005	0.823998	13349540.01
105A556223	Resistor	R433,R64	Bellcore Issue 6	Level I		0.002176	2.00	.0327	0.004351	459632959.83
14S5A00700	Integrated Circuit	U11	Bellcore Issue 6	Level I		0.033459	1.00	.2518	0.033459	29886900.67
14S5A00600	Integrated Circuit	U28	Bellcore Issue 6	Level I		0.033459	1.00	.2518	0.033459	29886900.67
105A520003	Resistor	R516	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A512033	Resistor	R159,R65	Bellcore Issue 6	Level I		0.002176	2.00	.0327	0.004351	459632959.83
105A523233	Resistor	R434	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A720033	Resistor	R290,R291	Bellcore Issue 6	Level I		0.002176	2.00	.0327	0.004351	459632959.83
105A733033	Resistor	R647	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A549903	Resistor	R714	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
14S3020100	Integrated Circuit	U7	Bellcore Issue 6	Level I		0.050856	1.00	.3827	0.050856	19663236.03
105A527463	Resistor	R195,R727	Bellcore Issue 6	Level I		0.002176	2.00	.0327	0.004351	459632959.83

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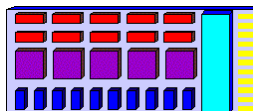


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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1121615080	Capacitor	C309-C314	Bellcore Issue 6	Level I		0.004351	6.00	.1965	0.026108	229816479.92
1124447180	Capacitor	C652	Bellcore Issue 6	Level I		0.004351	1.00	.0327	0.004351	229816479.92
105A502200	Resistor	R343-R346	Bellcore Issue 6	Level I		0.002176	4.00	.0655	0.008703	459632959.83
105A510053	Resistor	R453,R658	Bellcore Issue 6	Level I		0.013054	2.00	.1965	0.026108	76605493.31
105A511313	Resistor	R682	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A700103	Resistor	R219,R751,R756,R762	Bellcore Issue 6	Level I		0.002176	4.00	.0655	0.008703	459632959.83
105A568123	Resistor	R148	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A500333	Resistor	R1,R292	Bellcore Issue 6	Level I		0.002176	2.00	.0327	0.004351	459632959.83
105A501823	Resistor	R738	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A702423	Resistor	R364	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A506823	Resistor	R432,R435	Bellcore Issue 6	Level I		0.002176	2.00	.0327	0.004351	459632959.83
105A708229	Resistor	R136,R164,R169,R173-R177,R188- R189,R200,R210-R213,R228,R371- R375,R381	Bellcore Issue 6	Level I		0.002176	19.00	.3111	0.041337	459632959.83
105A708229	Resistor	R382,R384,R420,R473,R501,R56,- R576,R578,R581,R586-R595,R600- R601,R606	Bellcore Issue 6	Level I		0.002176	22.00	.3602	0.047864	459632959.83
105A708229	Resistor	R607,R609,R61,R610,R616,R62,R- 623,R629-R631,R649-R651,R653,- R654	Bellcore Issue 6	Level I		0.002176	15.00	.2456	0.032635	459632959.83
105A700139	Resistor	R130,R155,R298,R303,R40,R425,- R464,R467,R486,R487,R499,R522- R53,R54,R554	Bellcore Issue 6	Level I		0.002176	15.00	.2456	0.032635	459632959.83
105A700139	Resistor	R556,R569,R584,R619,R628,R713- R732,R746	Bellcore Issue 6	Level I		0.002176	8.00	.1310	0.017405	459632959.83
105A704729	Resistor	R205,R223,R227,R229,R240,R244- R250,R251,R253,R255-R257,R28,- R282,R283	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A704729	Resistor	R29-R31,R312,R32,R33,R330-R334- R34,R340-R342,R35,R354,R363,R- 387,R388	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A704729	Resistor	R392,R396,R404,R407,R41,R415,- R416,R418,R42,R428,R450,R550,- R582,R583,R63	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A704729	Resistor	R68,R721,R735,R775,R782	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A700009	Resistor	R126,R128,R135,R14,R140,R145,- R15,R126,R165,R166,R17,R172,R- 18,R180,R207	Bellcore Issue 6	Level I		0.002176	15.00	.2456	0.032635	459632959.83

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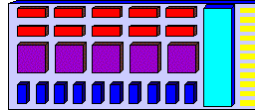


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105A700009	Resistor	R214,R217,R220,R224-R226,R23,-R232,R238,R239,R247,R25,R260--R270,R275	Bellcore Issue 6	Level I		0.002176	24.00	.3929	0.052216	459632959.83
105A700009	Resistor	R277,R279,R281,R285,R288,R297-,R299,R339,R347-R350,R356,R365-,R367,R398	Bellcore Issue 6	Level I		0.002176	16.00	.2619	0.034810	459632959.83
105A700009	Resistor	R4,R401,R412,R43,R44,R442,R52-,R555,R557,R558,R57,R570-R572,-R60,R602	Bellcore Issue 6	Level I		0.002176	16.00	.2619	0.034810	459632959.83
105A700009	Resistor	R603,R608,R613-R615,R618,R637-,R639,R645,R657,R66,R661,R663,-R671,R673	Bellcore Issue 6	Level I		0.002176	15.00	.2456	0.032635	459632959.83
105A700009	Resistor	R674,R676,R677,R686,R694,R707-,R715,R716,R722,R723,R734,R739-,R741,R744	Bellcore Issue 6	Level I		0.002176	14.00	.2292	0.030459	459632959.83
105A700009	Resistor	R748,R749,R761,R764-R766,R776-,R778,R78	Bellcore Issue 6	Level I		0.002176	9.00	.1473	0.019581	459632959.83
105A701039	Resistor	R125,R144,R168,R170,R181,R183-,R187,R191,R193,R21,R293-R295,-R352,R353	Bellcore Issue 6	Level I		0.002176	18.00	.2947	0.039162	459632959.83
105A701039	Resistor	R368,R410,R413,R414,R448,R449-,R454,R455,R461,R462,R48,R488,-R49-R51,R521	Bellcore Issue 6	Level I		0.002176	16.00	.2619	0.034810	459632959.83
105A701039	Resistor	R527,R534,R535,R537,R579,R585-,R612,R617,R620,R675,R681	Bellcore Issue 6	Level I		0.002176	11.00	.1801	0.023932	459632959.83
105A710009	Resistor	R146,R182,R22,R241,R304,R440-,R504,R512,R517,R565,R574,R604-,R621,R626	Bellcore Issue 6	Level I		0.002176	14.00	.2292	0.030459	459632959.83
105A710009	Resistor	R632,R666,R687,R693,R709,R710-,R79	Bellcore Issue 6	Level I		0.002176	7.00	.1146	0.015230	459632959.83
105A703309	Resistor	R100,R102,R104,R105,R107,R109-,R111,R113,R114,R116,R118,R119-,R123,R203	Bellcore Issue 6	Level I		0.002176	14.00	.2292	0.030459	459632959.83
105A703309	Resistor	R419,R468,R491,R536,R551-R553-,R575,R633,R69,R70,R72,R73,R75-,RR79,R84	Bellcore Issue 6	Level I		0.002176	16.00	.2619	0.034810	459632959.83
105A703309	Resistor	R86,R88,R89,R91,R94,R96,R98,R-99	Bellcore Issue 6	Level I		0.002176	8.00	.1310	0.017405	459632959.83
105A702239	Resistor	R160,R276,R278,R280,R284,R302-,R627,R695,R720,R733	Bellcore Issue 6	Level I		0.002176	10.00	.1637	0.021756	459632959.83
105A702229	Resistor	R243,R445,R446,R469,R497,R507-,R524,R725,R726	Bellcore Issue 6	Level I		0.002176	9.00	.1473	0.019581	459632959.83

AAEON Reliability Prediction Report

Part Number 9697945T00
Reference Des
Date 04. 3, 2006
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 22.90

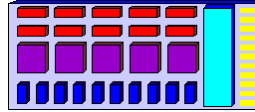


Description Top-level assembly
File Name 9697945T00.RPJ
Time 10:09 上午
Failure Rate 13.289192
MTBF 75,249

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A733009	Resistor	R190,R218,R258,R259,R67,R772,-R774,R93	Bellcore Issue 6	Level I		0.002176	8.00	.1310	0.017405	459632959.83
1129701690	Capacitor	BC1-BC4,C111-C113,C12,C122,C1-26,C127,C129,C130,C132-C135,C-142-C145,C147	Bellcore Issue 6	Level I		0.004351	22.00	.7203	0.095729	229816479.92
1129701690	Capacitor	C153,C155-C157,C16,C161,C164,-C177,C18,C183,C186,C21,C23,C2-31-C234,C236	Bellcore Issue 6	Level I		0.004351	18.00	.5894	0.078323	229816479.92
1129701690	Capacitor	C237-C239,C249,C25,C250,C254--C257,C26,C263,C264,C266,C27,C-270,C279,C285	Bellcore Issue 6	Level I		0.004351	18.00	.5894	0.078323	229816479.92
1129701690	Capacitor	C290,C291,C295-C300,C30,C303,-C304,C31,C315,C318,C320,C322--C324,C326-C331	Bellcore Issue 6	Level I		0.004351	24.00	.7858	0.104431	229816479.92
1129701690	Capacitor	C334,C337,C338,C344-C360,C35,-C36,C362,C364,C365,C367-C369,-C374,C376,C379	Bellcore Issue 6	Level I		0.004351	31.00	1.0150	0.134890	229816479.92
1129701690	Capacitor	C380,C382-C388,C39,C392,C40,C-400,C414,C418,C420,C422,C426,C-427,C429,C43	Bellcore Issue 6	Level I		0.004351	20.00	.6549	0.087026	229816479.92
1129701690	Capacitor	C431,C438,C439,C444,C446,C448-,C449,C451,C454,C46,C461,C466--C470,C473	Bellcore Issue 6	Level I		0.004351	17.00	.5566	0.073972	229816479.92
1129701690	Capacitor	C474,C479,C480,C483,C485,C488-,C49,C491,C495-C497,C499,C50,C-500,C501,C503	Bellcore Issue 6	Level I		0.004351	1.00	.0327	0.004351	229816479.92
1129701690	Capacitor	C505,C506,C508,C510,C514,C516-,C517,C52,C521,C524-C526,C528,-C53,C534-C536	Bellcore Issue 6	Level I		0.004351	1.00	.0327	0.004351	229816479.92
1129701690	Capacitor	C539,C54,C541,C546-C548,C55,C-557,C57,C580,C581,C593,C595,C6-0,C602,C603	Bellcore Issue 6	Level I		0.004351	1.00	.0327	0.004351	229816479.92
1129701690	Capacitor	C624,C63,C630,C64,C642,C643,C-646-C648,C65,C653,C654,C658,C-661,C662,C664	Bellcore Issue 6	Level I		0.004351	1.00	.0327	0.004351	229816479.92
1129701690	Capacitor	C666,C668,C669,C67,C670,C674,-C675,C680,C681,C683,C684,C688-,C689,C69,C692	Bellcore Issue 6	Level I		0.004351	1.00	.0327	0.004351	229816479.92
1129701690	Capacitor	C694,C699,C70,C701,C702,C71,C-75,C79,C8,C82,C84,C88,C89,C92--C97,C99	Bellcore Issue 6	Level I		0.004351	1.00	.0327	0.004351	229816479.92

AAEON Reliability Prediction Report

Part Number 9697945T00
Reference Des
Date 04. 3, 2006
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 22.90

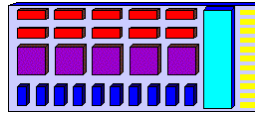


Description Top-level assembly
File Name 9697945T00.RPJ
Time 10:09 上午
Failure Rate 13.289192
MTBF 75,249

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1129710090	Capacitor	C243-C245,C28,C287-C289,C32,C-577,C578,C58,C59	Bellcore Issue 6	Level I		0.004351	12.00	.3929	0.052216	229816479.92
1129710390	Capacitor	C160,C22,C24,C271,C273,C276,C-278,C325,C336,C341,C361,C366,C-390,C391,C41	Bellcore Issue 6	Level I		0.004351	15.00	.4911	0.065269	229816479.92
1129710390	Capacitor	C42,C44,C45,C5,C607	Bellcore Issue 6	Level I		0.004351	5.00	.1637	0.021756	229816479.92
1129701790	Capacitor	C128,C272,C274,C275,C277,C316-C389,C619	Bellcore Issue 6	Level I		0.004351	8.00	.2619	0.034810	229816479.92
1129722680	Capacitor	C123,C33,C339,C447,C477,C478,-C490,C511,C512,C549,C74,C81,C-86,C87,C91	Bellcore Issue 6	Level I		0.004351	15.00	.4911	0.065269	229816479.92
1315030110	Semiconductor	Q1,Q2	Bellcore Issue 6	Level I		0.074909	2.00	1.1274	0.149818	13349540.01
1121733380	Capacitor	C651,C677	Bellcore Issue 6	Level I		0.004351	2.00	.0655	0.008703	229816479.92
105A702263	Resistor	R669,R670,R683,R688,R750,R767	Bellcore Issue 6	Level I		0.002176	6.00	.0982	0.013054	459632959.83
105A547503	Resistor	R511	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A524963	Resistor	R151,R152,R216,R426,R611,R668	Bellcore Issue 6	Level I		0.002176	6.00	.0982	0.013054	459632959.83
105A561923	Resistor	R728	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
1129610050	Capacitor	C116,C13,C140,C141,C170,C175,-C176,C195,C199,C200,C206,C207-C216,C235,C247	Bellcore Issue 6	Level I		0.004351	15.00	.4911	0.065269	229816479.92
1129610050	Capacitor	C258,C259,C283,C29,C292,C308,-C317,C34,C363,C370-C372,C395,-C397,C398,C409	Bellcore Issue 6	Level I		0.004351	18.00	.5894	0.078323	229816479.92
1129610050	Capacitor	C410,C416,C421,C486,C502,C51,-C527,C553,C590,C6,C606,C635,C-640,C641,C655	Bellcore Issue 6	Level I		0.004351	15.00	.4911	0.065269	229816479.92
1129610050	Capacitor	C672,C679,C693,C7,C700,C703,C-704,C80,C98	Bellcore Issue 6	Level I		0.004351	9.00	.2947	0.039162	229816479.92
1653222208	Connection	CN22	Bellcore Issue 6	Level I		0.022415	1.00	.1687	0.022415	44612085.65
1311006910	Semiconductor	Q5,Q6	Bellcore Issue 6	Level I		0.022473	2.00	.3382	0.044945	44498466.71
14S6340808	Integrated Circuit	U5	Bellcore Issue 6	Level I		0.020592	1.00	.1550	0.020592	48562713.57
1654262300	Connection	MPC11	Bellcore Issue 6	Level I		0.063171	1.00	.4754	0.063171	15830094.91
1211101005	Inductor	L67,L9	Bellcore Issue 6	Level I		0.002176	2.00	.0327	0.004351	459632959.83
105A522663	Resistor	R192	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
1304001340	Semiconductor	LED3	Bellcore Issue 6	Level I		0.004019	1.00	.0302	0.004019	248816273.91
1304101340	Semiconductor	LED1,LED2	Bellcore Issue 6	Level I		0.004019	2.00	.0605	0.008038	248816273.91

AAEON Reliability Prediction Report

Part Number 9697945T00
Reference Des
Date 04. 3, 2006
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 22.90

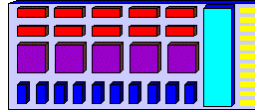


Description Top-level assembly
File Name 9697945T00.RPJ
Time 10:09 上午
Failure Rate 13.289192
MTBF 75,249

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A710039	Resistor	R167,R389,R400,R441,R759	Bellcore Issue 6	Level I		0.002176	5.00	.0819	0.010878	459632959.83
105A549969	Resistor	R10-R13,R484,R490,R493,R498,R-502,R503,R508,R510,R515,R518,R-523,R526,R530	Bellcore Issue 6	Level I		0.002176	7.00	.1146	0.015230	459632959.83
105A549969	Resistor	R532,R533,R539,R541,R542,R544-R547,R6,R67,R780,R781,R8,R9	Bellcore Issue 6	Level I		0.002176	13.00	.2128	0.028283	459632959.83
105A501039	Resistor	R423,R424,R437-R439,R447,R478-R667,R757,R763,R770	Bellcore Issue 6	Level I		0.002176	11.00	.1801	0.023932	459632959.83
121230603H	Inductor	L43,L49,L57,L66,L68	Bellcore Issue 6	Level I		0.002176	5.00	.0819	0.010878	459632959.83
14S6341602	Integrated Circuit	U29	Bellcore Issue 6	Level I		0.048140	1.00	.3622	0.048140	20772790.14
1653925216	Connection	CN24	Bellcore Issue 6	Level I		0.025472	1.00	.1917	0.025472	39258635.37
1121701080	Capacitor	C1,C109,C110,C115,C14,C178,C1-79,C181,C182,C187,C188,C193,C1-94,C198,C2	Bellcore Issue 6	Level I		0.004351	15.00	.4911	0.065269	229816479.92
1121701080	Capacitor	C204,C205,C251-C253,C260-C262-C280,C281,C284,C286,C293,C294-C3,C301,C302	Bellcore Issue 6	Level I		0.004351	17.00	.5566	0.073972	229816479.92
1121701080	Capacitor	C306,C607,C4,C556,C660,C667	Bellcore Issue 6	Level I		0.004351	6.00	.1965	0.026108	229816479.92
1124410190	Capacitor	C15,C17,C19,C208-C215,C217-C2-25	Bellcore Issue 6	Level I		0.004351	20.00	.6549	0.087026	229816479.92
1124547290	Capacitor	C159,C162,C166,C167,C174,C180-C184,C185	Bellcore Issue 6	Level I		0.004351	8.00	.2619	0.034810	229816479.92
105A705609	Resistor	R101,R103,R106,R108,R110,R112-R115,R117,R120,R122,R127,R129-R131,R132	Bellcore Issue 6	Level I		0.002176	14.00	.2292	0.030459	459632959.83
105A705609	Resistor	R137,R139,R147,R231,R326-R329-R470,R471,R477,R479,R485,R489-R494,R505	Bellcore Issue 6	Level I		0.002176	16.00	.2619	0.034810	459632959.83
105A705609	Resistor	R509,R513,R525,R529,R531,R538-R540,R543,R545,R546,R548,R549-R559-R564	Bellcore Issue 6	Level I		0.002176	18.00	.2947	0.039162	459632959.83
105A705609	Resistor	R644,R660,R690-R692,R696,R80,-R82,R83,R85,R87,R90,R92,R95,R-97	Bellcore Issue 6	Level I		0.002176	15.00	.2456	0.032635	459632959.83
105A703909	Resistor	R121,R201,R202,R24,R443,R444,-R634-R636,R638,R640,R641	Bellcore Issue 6	Level I		0.002176	12.00	.1965	0.026108	459632959.83
1211100160	Inductor	L19,L69	Bellcore Issue 6	Level I		0.082675	2.00	1.2442	0.165349	12095604.21
105A705139	Resistor	R235,R236,R252,R27,R271,R360,-R379	Bellcore Issue 6	Level I		0.002176	7.00	.1146	0.015230	459632959.83
14S3156500	Semiconductor	U13	Bellcore Issue 6	Level I		0.149818	1.00	1.1274	0.149818	6674770.01

AAEON Reliability Prediction Report

Part Number 9697945T00
Reference Des
Date 04. 3, 2006
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 22.90

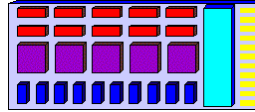


Description Top-level assembly
File Name 9697945T00.RPJ
Time 10:09 上午
Failure Rate 13.289192
MTBF 75,249

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1124533190	Capacitor	C189-C192,C196,C197,C201-C203-,C265,C267-C269,C282,C305,C319-,C686,C687	Bellcore Issue 6	Level I		0.004351	18.00	.5894	0.078323	229816479.92
1124533190	Capacitor	C690,C697	Bellcore Issue 6	Level I		0.004351	2.00	.0655	0.008703	229816479.92
A4S1035801	Integrated Circuit	U37	Bellcore Issue 6	Level I		0.084842	1.00	.6384	0.084842	11786612.40
1752001600	Miscellaneous	FS1,FS2	Bellcore Issue 6	Level I		0.030000	2.00	.4515	0.060000	33333333.33
105A554963	Resistor	R150,R196,R567,R697,R726	Bellcore Issue 6	Level I		0.002176	5.00	.0819	0.010878	459632959.83
105A510213	Resistor	R204	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A532413	Resistor	R678	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A501133	Resistor	R754	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
1300581741	Semiconductor	D12,D13,D17,D18	Bellcore Issue 6	Level I		0.022473	4.00	.6764	0.089891	44498466.71
1129610051	Capacitor	C114,C125,C342,C343,C403,C406-,C417,C435,C445,C476,C515,C537-,C605,C66,C83	Bellcore Issue 6	Level I		0.004351	15.00	.4911	0.065269	229816479.92
1129610051	Capacitor	C85	Bellcore Issue 6	Level I		0.004351	1.00	.0327	0.004351	229816479.92
1315600311	Semiconductor	Q34	Bellcore Issue 6	Level I		0.074909	1.00	.5637	0.074909	13349540.01
105A525503	Resistor	R475	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
1121701790	Capacitor	C172,C173,C659,C663	Bellcore Issue 6	Level I		0.004351	4.00	.1310	0.017405	229816479.92
14S3065500	Integrated Circuit	U1	Bellcore Issue 6	Level I		0.050856	1.00	.3827	0.050856	19663236.03
14S5A12505	Integrated Circuit	U34	Bellcore Issue 6	Level I		0.033393	1.00	.2513	0.033393	29946736.09
105A522003	Resistor	R370	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
14S5812502	Integrated Circuit	U31	Bellcore Issue 6	Level I		0.033393	1.00	.2513	0.033393	29946736.09
1653204202	Connection	CN3	Bellcore Issue 6	Level I		0.004076	1.00	.0307	0.004076	245366471.06
1314158210	Integrated Circuit	Q7	Bellcore Issue 6	Level I		0.050856	1.00	.3827	0.050856	19663236.03
1315230111	Semiconductor	Q19,Q20,Q24,Q37	Bellcore Issue 6	Level I		0.000000	4.00	.0000	0.000000	.00
105A580663	Resistor	R153,R154	Bellcore Issue 6	Level I		0.002176	2.00	.0327	0.004351	459632959.83
14S4871203	Integrated Circuit	U4	Bellcore Issue 6	Level I	20.00	0.152385	1.00	1.1467	0.152385	6562319.94
14S4081110	Integrated Circuit	U14,U41	Bellcore Issue 6	Level I		0.050856	2.00	.7654	0.101713	19663236.03
14S4653700	Integrated Circuit	U17	Bellcore Issue 6	Level I		0.050856	1.00	.3827	0.050856	19663236.03
11C2510190	Capacitor	C612,C636	Bellcore Issue 6	Level I		0.004351	2.00	.0655	0.008703	229816479.92
105A535713	Resistor	R708	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
16515A0996	Connection	DIMM1	Bellcore Issue 6	Level I		0.101888	1.00	.7667	0.101888	9814658.84
16515A0997	Connection	DIMM2	Bellcore Issue 6	Level I		0.101888	1.00	.7667	0.101888	9814658.84

AAEON Reliability Prediction Report

Part Number 9697945T00
Reference Des
Date 04. 3, 2006
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 22.90

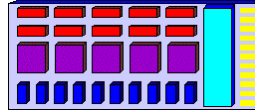


Description Top-level assembly
File Name 9697945T00.RPJ
Time 10:09 上午
Failure Rate 13.289192
MTBF 75,249

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
121230603S	Inductor	L60-L62	Bellcore Issue 6	Level I		0.002176	2.00	.0327	0.004351	459632959.83
121230805X	Inductor	L45,L46,L6,L7,L70,L72,L77,L8	Bellcore Issue 6	Level I		0.002176	8.00	.1310	0.017405	459632959.83
121230805Z	Inductor	L78	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
1651203292	Connection	U9	Bellcore Issue 6	Level I		0.016302	1.00	.1227	0.016302	61341617.77
105A522103	Resistor	R149,R566	Bellcore Issue 6	Level I		0.002176	2.00	.0327	0.004351	459632959.83
105A501623	Resistor	R680	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
14S4650601	Integrated Circuit	U38	Bellcore Issue 6	Level I		0.050856	1.00	.3827	0.050856	19663236.03
14S4730701	Integrated Circuit	U26	Bellcore Issue 6	Level I		0.050856	1.00	.3827	0.050856	19663236.03
1315442910	Semiconductor	Q16	Bellcore Issue 6	Level I		0.074909	1.00	.5637	0.074909	13349540.01
1189622190	Capacitor	C124,C136-C138,C47	Bellcore Issue 6	Level I		0.004351	5.00	.1637	0.021756	229816479.92
14S428010D	Integrated Circuit	U15	Bellcore Issue 6	Level I	13.20	0.114853	1.00	.8643	0.114853	8706817.39
14S1826100	Integrated Circuit	U2	Bellcore Issue 6	Level I		0.050856	1.00	.3827	0.050856	19663236.03
1121501690	Capacitor	C101-C103,C117,C119,C121,C131-C139,C149-C152,C37,C375,C396,-C401,C402,C405	Bellcore Issue 6	Level I		0.004351	18.00	.5894	0.078323	229816479.92
1121501690	Capacitor	C413,C425,C455,C460,C464,C472-C481,C494,C498,C507,C543-C545-C550-C552	Bellcore Issue 6	Level I		0.004351	16.00	.5239	0.069621	229816479.92
1121501690	Capacitor	C555,C559,C561,C563,C564,C566-C571,C572,C574-C576,C582,C586-C599,C600	Bellcore Issue 6	Level I		0.004351	15.00	.4911	0.065269	229816479.92
1121501690	Capacitor	C632,C633,C634,C76	Bellcore Issue 6	Level I		0.004351	4.00	.1310	0.017405	229816479.92
1129522790	Capacitor	C423,C424,C492,C509,C519,C522-C671,C696,C698	Bellcore Issue 6	Level I		0.004351	9.00	.2947	0.039162	229816479.92
105A514713	Resistor	R730	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
14S1282200	Integrated Circuit	U22	Bellcore Issue 6	Level I		0.050856	1.00	.3827	0.050856	19663236.03
123131435B	Miscellaneous	Y2,Y4	Bellcore Issue 6	Level I		0.150000	2.00	2.2575	0.300000	6666666.67
1231325058	Miscellaneous	Y1	Bellcore Issue 6	Level I		0.150000	1.00	1.1287	0.150000	6666666.67
14S4805301	Integrated Circuit	U3	Bellcore Issue 6	Level I	9.60	0.098382	1.00	.7403	0.098382	10164486.03
14S4121601	Integrated Circuit	U18	Bellcore Issue 6	Level I		0.063922	1.00	.4810	0.063922	15644149.31
1189615188	Capacitor	C656	Bellcore Issue 6	Level I	12.90	0.005563	1.00	.0419	0.005563	179757993.83
1189615188	Capacitor	C248,C373,C428,C463,C520,C532-C533,C585,C639,C656,C657	Bellcore Issue 6	Level I		0.004351	10.00	.3274	0.043513	229816479.92
1129601080	Capacitor	C154,C412,C554,C558,C569,C570-C591	Bellcore Issue 6	Level I		0.004351	7.00	.2292	0.030459	229816479.92

AAEON Reliability Prediction Report

Part Number 9697945T00
Reference Des
Date 04. 3, 2006
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 22.90

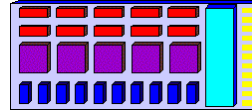


Description Top-level assembly
File Name 9697945T00.RPJ
Time 10:09 上午
Failure Rate 13.289192
MTBF 75,249

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A536513	Resistor	R752,R771	Bellcore Issue 6	Level I		0.002176	2.00	.0327	0.004351	459632959.83
1315442011	Semiconductor	Q33,Q35,Q36,Q38	Bellcore Issue 6	Level I		0.000000	4.00	.0000	0.000000	.00
1315441014	Semiconductor	Q31	Bellcore Issue 6	Level I	21.60	0.000000	1.00	.0000	0.000000	.00
1315441014	Semiconductor	Q10-Q12,Q14	Bellcore Issue 6	Level I	11.70	0.000000	4.00	.0000	0.000000	.00
14S4730801	Integrated Circuit	U30	Bellcore Issue 6	Level I		0.050856	1.00	.3827	0.050856	19663236.03
1315600210	Semiconductor	Q29,Q30	Bellcore Issue 6	Level I	15.30	0.228944	2.00	3.4456	0.457887	4367888.08
1315600210	Semiconductor	Q32,Q39	Bellcore Issue 6	Level I		0.149818	2.00	2.2547	0.299636	6674770.01
106B501032	Resistor	RT2,RT4,RT5	Bellcore Issue 6	Level I		0.010189	3.00	.2300	0.030567	98146588.43
106B747030	Resistor	RT1	Bellcore Issue 6	Level I		0.010189	1.00	.0767	0.010189	98146588.43
1189633184	Capacitor	C146,C393,C482,C538,C540,C542-C562,C567,C568,C589,C613,C614-C625,C637,C73, C90	Bellcore Issue 6	Level I		0.038208	16.00	4.6002	0.611330	26172423.58
1189647180	Capacitor	C394,C77	Bellcore Issue 6	Level I		0.063680	2.00	.9584	0.127361	15703454.15
14S3422600	Integrated Circuit	U10	Bellcore Issue 6	Level I		0.050856	1.00	.3827	0.050856	19663236.03
14S3626200	Integrated Circuit	U19	Bellcore Issue 6	Level I		0.050856	1.00	.3827	0.050856	19663236.03
14S6308000	Integrated Circuit	U12	Bellcore Issue 6	Level I		0.114007	1.00	.8579	0.114007	8771390.87
1129622050	Capacitor	C105,C106,C583,C584,C587,C588-C597,C598,C608-C611,C615-C618-C621,C622	Bellcore Issue 6	Level I		0.004351	18.00	.5894	0.078323	229816479.92
1129622050	Capacitor	C626-C629	Bellcore Issue 6	Level I		0.004351	4.00	.1310	0.017405	229816479.92
1121647480	Capacitor	C104,C107,C108,C377,C378,C411-C432,C452,C489,C493,C518,C78	Bellcore Issue 6	Level I		0.004351	12.00	.3929	0.052216	229816479.92
1315970211	Integrated Circuit	U20,U21,U27	Bellcore Issue 6	Level I	8.00	0.090646	3.00	2.0463	0.271938	11031935.48
105A540213	Resistor	R237	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A514733	Resistor	R242	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
105A526113	Resistor	R755	Bellcore Issue 6	Level I		0.002176	1.00	.0164	0.002176	459632959.83
1122622890	Capacitor	C443,C456-C458,C471,C475,C72	Bellcore Issue 6	Level I		0.004351	7.00	.2292	0.030459	229816479.92
1124615880	Capacitor	C169	Bellcore Issue 6	Level I		0.004351	1.00	.0327	0.004351	229816479.92
1129647650	Capacitor	C695	Bellcore Issue 6	Level I		0.004351	1.00	.0327	0.004351	229816479.92
1121633480	Capacitor	C676	Bellcore Issue 6	Level I		0.004351	1.00	.0327	0.004351	229816479.92
1651611991	Connection	U16	Bellcore Issue 6	Level I		0.243513	1.00	1.8324	0.243513	4106551.82
1654030001	Connection	CN10,CN12,CN9	Bellcore Issue 6	Level I		0.015283	3.00	.3450	0.045850	65431058.95
1654260207	Connection	PCI1	Bellcore Issue 6	Level I		0.016302	1.00	.1227	0.016302	61341617.77

AAEON Reliability Prediction Report

Part Number 9697945T00
Reference Des
Date 04. 3, 2006
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 22.90



Description Top-level assembly
File Name 9697945T00.RPJ
Time 10:09 上午
Failure Rate 13.289192
MTBF 75,249

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
14S6200402	Integrated Circuit	U9	Bellcore Issue 6	Level I		0.105565	1.00	.7944	0.105565	9472864.45