

EMB-9458T Reliability Prediction Report (MTBF)

Report NO : 07E070025

12-25-2007

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** EMB-9458T

II . **Prediction Date:** Dec. 25, 2007

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: 23.7 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:**

- Failure Rate: 16.566048 ppm
- MTBF: 60,364 Hours

AAEON Reliability Prediction Report

Part Number 9697945802-DIP
Reference Des
Date 12. 25, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 23.70



Description Top-level assembly
File Name EMB-9458T.RPJ
Time 10:59 上午
Failure Rate 16.566048
MTBF 60,364

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
EMB-9458T	9697945802-DIP	Belcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	16.566048	60,364

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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1653002101	Connection	JP6	Bellcore Issue 6	Level I		0.001063	1.00	.0064	0.001063	940830307.40
1653003100	Connection	JP3-JP5	Bellcore Issue 6	Level I		0.001594	3.00	.0289	0.004783	627220204.93
1653003201	Connection	JP2	Bellcore Issue 6	Level I		0.003189	1.00	.0192	0.003189	313610102.47
1654418100	Connection	CN2	Bellcore Issue 6	Level I		0.004783	1.00	.0289	0.004783	209073401.64
1655004020	Connection	CN30	Bellcore Issue 6	Level I		0.002126	1.00	.0128	0.002126	470415153.70
1655304020	Connection	CN10	Bellcore Issue 6	Level I		0.002126	1.00	.0128	0.002126	470415153.70
1655305020	Connection	CN7	Bellcore Issue 6	Level I		0.002657	1.00	.0160	0.002657	376332122.96
1655420020	Connection	CN16	Bellcore Issue 6	Level I		0.010629	1.00	.0642	0.010629	94083030.74
1655005021	Connection	CN9	Bellcore Issue 6	Level I		0.002657	1.00	.0160	0.002657	376332122.96
1653006101	Connection	CN26	Bellcore Issue 6	Level I		0.003189	1.00	.0192	0.003189	313610102.47
1119633191	Capacitor	EC11,EC16	Bellcore Issue 6	Level I		0.039858	2.00	.4812	0.079717	25088808.20
1655004022	Connection	CN8	Bellcore Issue 6	Level I		0.002126	1.00	.0128	0.002126	470415153.70
1653900034	Connection	CN29	Bellcore Issue 6	Level I		0.001063	1.00	.0064	0.001063	940830307.40
1653207204	Connection	CN3	Bellcore Issue 6	Level I		0.007440	1.00	.0449	0.007440	134404329.63
1750220323	Connection	BAT1	Bellcore Issue 6	Level I		0.001063	1.00	.0064	0.001063	940830307.40
1653005206	Connection	CN28	Bellcore Issue 6	Level I		0.005314	1.00	.0321	0.005314	188166061.48
1653204205	Connection	CN6	Bellcore Issue 6	Level I		0.004252	1.00	.0257	0.004252	235207576.85
1655004014	Connection	CN13,CN27	Bellcore Issue 6	Level I		0.002126	2.00	.0257	0.004252	470415153.70
1189668181	Capacitor	EC6	Bellcore Issue 6	Level I		0.066431	1.00	.4010	0.066431	15053284.92
1169656130	Capacitor	EC12,EC7,EC9	Bellcore Issue 6	Level I		0.066431	3.00	1.2030	0.199292	15053284.92
16515C0493	Connection	DIMM1,DIMM2	Bellcore Issue 6	Level I		0.127547	2.00	1.5399	0.255094	7840252.56
1119622196	Capacitor	EC14,EC3,EC4,EC8	Bellcore Issue 6	Level I		0.039858	4.00	.9624	0.159434	25088808.20
1655902030	Connection	CN14	Bellcore Issue 6	Level I		0.001063	1.00	.0064	0.001063	940830307.40
1654260206	Connection	PCI1	Bellcore Issue 6	Level I		0.063773	1.00	.3850	0.063773	15680505.12
1112647110	Capacitor	EC18	Bellcore Issue 6	Level I		0.066431	1.00	.4010	0.066431	15053284.92
111961029H	Capacitor	EC10,EC15	Bellcore Issue 6	Level I		0.066431	2.00	.8020	0.132861	15053284.92
1652522202	Connection	CN4,CN5	Bellcore Issue 6	Level I		0.011692	2.00	.1412	0.023384	85530027.95
175910000B	Miscellaneous	BUZZ1	Bellcore Issue 6	Level I		0.150000	1.00	.9055	0.150000	6666666.67
2057250800	Integrated Circuit	U26,U27	Bellcore Issue 6	Level I		0.036392	2.00	.4394	0.072785	27478246.56
1654907006	Connection	SATA1,SATA2	Bellcore Issue 6	Level I		0.003720	2.00	.0449	0.007440	268808659.26
175011901H	Miscellaneous	BAT1	Bellcore Issue 6	Level I		0.900000	1.00	5.4328	0.900000	1111111.11

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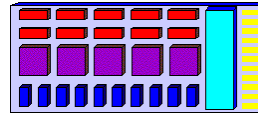


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File Name EMB-9458T.RPJ
Time 10:59 上午
Failure Rate 16.566048
MTBF 60,364

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1654232200	Connection	CN19	Bellcore Issue 6	Level I		0.034013	1.00	.2053	0.034013	29400947.11
14S6200800	Integrated Circuit	U10	Bellcore Issue 6	Level I		0.167848	1.00	1.0132	0.167848	5957772.84
1654612307	Connection	KBMS1	Bellcore Issue 6	Level I		0.006377	1.00	.0385	0.006377	156805051.23
1652517201	Connection	AUDIO1	Bellcore Issue 6	Level I		0.009035	1.00	.0545	0.009035	110685918.52
1654445300	Connection	CN1+DVI1	Bellcore Issue 6	Level I		0.023915	1.00	.1444	0.023915	41814680.33
1181633112	Capacitor	EC17	Bellcore Issue 6	Level I		0.039858	1.00	.2406	0.039858	25088808.20
105A700003	Resistor	R129,R377,R454,R472,R64,R72,R-792,R818,R90,R91,R914,R934	Bellcore Issue 6	Level I		0.002210	12.00	.1601	0.026525	452402189.45
105A701003	Resistor	R288,R289,R330,R504,R649,R836-R838,R840,R845-R851,R853-R856-R861,R912	Bellcore Issue 6	Level I		0.002210	22.00	.2935	0.048629	452402189.45
105A701053	Resistor	R244,R677	Bellcore Issue 6	Level I		0.002210	2.00	.0267	0.004421	452402189.45
105A747003	Resistor	R118,R457,R621,R645	Bellcore Issue 6	Level I		0.002210	4.00	.0534	0.008842	452402189.45
1059700001	Resistor	FB1-FB4,L10,L13,L22,L54-L56,L70,-L75-L77,LR314,R375,R376,R409,R-460,R481,R485,R491,R547-R549,-R667,R867,R868	Bellcore Issue 6	Level I		0.002210	28.00	.3736	0.061892	452402189.45
105A500133	Resistor	R767,R885,R98	Bellcore Issue 6	Level I		0.002210	3.00	.0400	0.006631	452402189.45
105A501523	Resistor	R122	Bellcore Issue 6	Level I		0.002210	1.00	.0133	0.002210	452402189.45
105A549913	Resistor	R160,R421,R442	Bellcore Issue 6	Level I		0.002210	3.00	.0400	0.006631	452402189.45
1231332721	Miscellaneous	Y3,Y5	Bellcore Issue 6	Level I		0.150000	2.00	1.8109	0.300000	6666666.67
1124412080	Capacitor	C440,C441	Bellcore Issue 6	Level I		0.004421	2.00	.0534	0.008842	226201094.73
1124405080	Capacitor	C14,C17,C18,C21,C268,C269	Bellcore Issue 6	Level I		0.004421	6.00	.1601	0.026525	226201094.73
1124518180	Capacitor	C717	Bellcore Issue 6	Level I		0.004421	1.00	.0267	0.004421	226201094.73
1124433080	Capacitor	C517,C526	Bellcore Issue 6	Level I		0.004421	2.00	.0534	0.008842	226201094.73
1124539180	Capacitor	C710	Bellcore Issue 6	Level I		0.004421	1.00	.0267	0.004421	226201094.73
1540710080	Resistor	RN1,RN10,RN2-RN9	Bellcore Issue 6	Level I		0.011768	10.00	.7104	0.117680	84975940.79
1301005440	Semiconductor	D12,D14,D19,D28,D34-D36,D7-D9	Bellcore Issue 6	Level I		0.023001	10.00	1.3885	0.230014	43475531.16
1174510180	Capacitor	CP10,CP5-CP9	Bellcore Issue 6	Level I		0.004421	6.00	.1601	0.026525	226201094.73
1305099140	Semiconductor	D30,D31	Bellcore Issue 6	Level I		0.023001	2.00	.2777	0.046003	43475531.16
1310390410	Semiconductor	Q1,Q2,Q33,Q40,Q5	Bellcore Issue 6	Level I		0.023001	5.00	.6942	0.115007	43475531.16
1311390610	Semiconductor	Q35,Q37	Bellcore Issue 6	Level I		0.023001	2.00	.2777	0.046003	43475531.16
1124522680	Capacitor	C225,C242	Bellcore Issue 6	Level I		0.004421	2.00	.0534	0.008842	226201094.73

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Time 10:59 上午
Failure Rate 16.566048
MTBF 60,364

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1124556280	Capacitor	C228	Bellcore Issue 6	Level I		0.004421	1.00	.0267	0.004421	226201094.73
14S4021301	Integrated Circuit	U22	Bellcore Issue 6	Level I	9.90	0.109422	1.00	.6605	0.109422	9138913.18
14S4021301	Integrated Circuit	U2,U39,U40,U42	Bellcore Issue 6	Level I		0.053958	4.00	1.3029	0.215831	18532991.21
1651203291	Connection	U10	Bellcore Issue 6	Level I		0.017006	1.00	.1027	0.017006	58801894.21
1653205201	Connection	CN23-CN25	Bellcore Issue 6	Level I		0.005314	3.00	.0962	0.015943	188166061.48
1301005442	Semiconductor	D11,D17,D18,D32,D33	Bellcore Issue 6	Level I		0.023001	5.00	.6942	0.115007	43475531.16
1212306033	Inductor	L1,L11,L15,L16,L18,L19,L2,L3,L30--L44,L5,L49-L51,L66,L67,L71,L72,L78-L81,L8	Bellcore Issue 6	Level I		0.002210	36.00	.4804	0.079575	452402189.45
1315700211	Semiconductor	Q18,Q18,Q20,Q21,Q23-Q25,Q31,Q32,Q34,Q36,Q4,Q41,Q42,Q47-Q49	Bellcore Issue 6	Level I		0.023001	17.00	2.3604	0.391025	43475531.16
105A556223	Resistor	R198,R696	Bellcore Issue 6	Level I		0.002210	2.00	.0267	0.004421	452402189.45
14S5A00700	Integrated Circuit	U29	Bellcore Issue 6	Level I		0.035090	1.00	.2118	0.035090	28498465.92
105A512033	Resistor	R197	Bellcore Issue 6	Level I		0.002210	1.00	.0133	0.002210	452402189.45
105A549903	Resistor	R298	Bellcore Issue 6	Level I		0.002210	1.00	.0133	0.002210	452402189.45
105A527463	Resistor	R309,R762	Bellcore Issue 6	Level I		0.002210	2.00	.0267	0.004421	452402189.45
1124447180	Capacitor	C234	Bellcore Issue 6	Level I		0.004421	1.00	.0267	0.004421	226201094.73
105A502200	Resistor	R339,R345,R346,R9	Bellcore Issue 6	Level I		0.002210	4.00	.0534	0.008842	452402189.45
105A510053	Resistor	R272,R619	Bellcore Issue 6	Level I		0.013263	2.00	.1601	0.026525	75400364.91
105A511313	Resistor	R102	Bellcore Issue 6	Level I		0.002210	1.00	.0133	0.002210	452402189.45
105A501123	Resistor	R922	Bellcore Issue 6	Level I		0.002210	1.00	.0133	0.002210	452402189.45
105A506823	Resistor	R355,R4,R683,R689	Bellcore Issue 6	Level I		0.002210	4.00	.0534	0.008842	452402189.45
105A708229	Resistor	R203,R221-R225,R231,R250,R252-,R254,R257-R259,R263,R277-R279-,R394,R403,R437,R444,R492,R532-,R571,R611,R668,R670,R682	Bellcore Issue 6	Level I		0.002210	28.00	.3736	0.061892	452402189.45
105A708229	Resistor	R713,R714,R718,R720-R722,R725-,R734,R740,R744,R747,R748,R750-,R751,R753-R758,R760,R761,R784-,R795,R805,R809,R810,R821	Bellcore Issue 6	Level I		0.002210	28.00	.3736	0.061892	452402189.45
105A708229	Resistor	R926,R927,R929	Bellcore Issue 6	Level I		0.002210	3.00	.0400	0.006631	452402189.45
105A700139	Resistor	R10,R106,R123,R166,R174,R208,-R230,R234,R236,R240,R3,R381,R458,R513,R528,R535,R563,R566,R576,R588,R603,R632,R651	Bellcore Issue 6	Level I		0.002210	23.00	.3069	0.050840	452402189.45

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Failure Rate 16.566048
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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1129701690	Capacitor	C650,C651,C653,C656,C657,C662-,C685-C687,C691,C692,C694,C696-,C698,C7,C70,C701-C703,C705,C7-08,C711-C716,C72,C723,C725	Bellcore Issue 6	Level I		0.004421	30.00	.8006	0.132625	226201094.73
1129701690	Capacitor	C74,C77,C81,C82,C84,C9,C90-C99	Bellcore Issue 6	Level I		0.004421	16.00	.4270	0.070734	226201094.73
1129710090	Capacitor	C10,C13,C15,C18,C19,C190,C247-,C250,C256,C261-C263,C6	Bellcore Issue 6	Level I		0.004421	12.00	.3202	0.053050	226201094.73
1129710390	Capacitor	C287,C347,C353,C357,C358,C364-,C382,C392,C405,C511,C706,C73	Bellcore Issue 6	Level I		0.004421	12.00	.3202	0.053050	226201094.73
1129701790	Capacitor	C147,C22,C236,C238,C26,C27,C2-75,C28,C394,C446,C704,C718	Bellcore Issue 6	Level I		0.004421	12.00	.3202	0.053050	226201094.73
14S5A00401	Integrated Circuit	U31,U33	Bellcore Issue 6	Level I		0.035090	2.00	.4236	0.070179	28498465.92
1129722680	Capacitor	C223,C338,C452,C574,C576,C579-,C581,C591,C621,C626,C632,C635-,C638,C697,C76	Bellcore Issue 6	Level I		0.004421	15.00	.4003	0.066313	226201094.73
1121733380	Capacitor	C231,C707	Bellcore Issue 6	Level I		0.004421	2.00	.0534	0.008842	226201094.73
105A702263	Resistor	R103,R312,R333,R595	Bellcore Issue 6	Level I		0.002210	4.00	.0534	0.008842	452402189.45
105A524963	Resistor	R287,R486,R701,R708,R741,R806	Bellcore Issue 6	Level I		0.002210	6.00	.0801	0.013263	452402189.45
105A561923	Resistor	R896	Bellcore Issue 6	Level I		0.002210	1.00	.0133	0.002210	452402189.45
1129610050	Capacitor	C103,C105,C111,C134,C140,C155-,C183,C194,C202,C220,C224,C259-,C265,C273,C280-C286,C289,C30-,C307,C311,C322,C339,C34	Bellcore Issue 6	Level I		0.004421	28.00	.7472	0.123784	226201094.73
1129610050	Capacitor	C342,C343,C350,C351,C360,C363-,C373,C385,C387,C406,C416,C420-,C421,C428,C457,C493,C494,C521-,C533,C548,C551,C560,C57	Bellcore Issue 6	Level I		0.004421	23.00	.6138	0.101679	226201094.73
1129610050	Capacitor	C610,C63,C667,C688,C689,C730-,C75,C89	Bellcore Issue 6	Level I		0.004421	8.00	.2135	0.035367	226201094.73
1214309000	Inductor	L23-L26,L46-L48,L52	Bellcore Issue 6	Level I		0.083996	8.00	4.0563	0.671968	11905320.78
1301002240	Semiconductor	D37	Bellcore Issue 6	Level I		0.076671	1.00	.4628	0.076671	13042659.35
1654262300	Connection	MPC11	Bellcore Issue 6	Level I		0.065899	1.00	.3978	0.065899	15174682.38
1211101005	Inductor	L14,L65	Bellcore Issue 6	Level I		0.083996	2.00	1.0141	0.167992	11905320.78
1304001340	Semiconductor	LED1	Bellcore Issue 6	Level I		0.004328	1.00	.0261	0.004328	231069136.44
1304101340	Semiconductor	LED2,LED4	Bellcore Issue 6	Level I		0.004328	2.00	.0522	0.008655	231069136.44
105A710039	Resistor	R124,R27,R419,R646,R679	Bellcore Issue 6	Level I		0.002210	5.00	.0667	0.011052	452402189.45
105A505109	Resistor	R235,R828,R829,R831-R833	Bellcore Issue 6	Level I		0.002210	6.00	.0801	0.013263	452402189.45

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105A702209	Resistor	R163,R164,R716,R84,R85	Bellcore Issue 6	Level I		0.002210	5.00	.0667	0.011052	452402189.45
1124427090	Capacitor	C19,C245,C251,C253,C255,C276,- C320,C321,C344,C356,C68,C8	Bellcore Issue 6	Level I		0.004421	12.00	.3202	0.053050	226201094.73
105A549969	Resistor	R37-R44,R553-R562,R609,R610,R- 652-R657,R659-R662,R73-R80	Bellcore Issue 6	Level I		0.002210	38.00	.5070	0.083996	452402189.45
121230603H	Inductor	L20,L53,L6,L7,L9	Bellcore Issue 6	Level I		0.002210	5.00	.0667	0.011052	452402189.45
14S6341602	Integrated Circuit	U5	Bellcore Issue 6	Level I		0.051076	1.00	.3083	0.051076	19578768.03
1653925216	Connection	CN29	Bellcore Issue 6	Level I		0.026572	1.00	.1604	0.026572	37633212.30
1121701080	Capacitor	C222,C319,C630	Bellcore Issue 6	Level I		0.004421	3.00	.0801	0.013263	226201094.73
1124410190	Capacitor	C216,C218,C266,C274,C668-C682- C71	Bellcore Issue 6	Level I		0.004421	20.00	.5337	0.088417	226201094.73
1124547290	Capacitor	C150-C152,C156,C157,C160,C163- C167	Bellcore Issue 6	Level I		0.004421	8.00	.2135	0.035367	226201094.73
105A705609	Resistor	R189,R190,R192,R195,R210,R211- R229,R232,R233,R237,R239,R241- R242,R245,R248,R249,R251,R253- R255,R256,R262,R265,R268	Bellcore Issue 6	Level I		0.002210	23.00	.3069	0.050840	452402189.45
105A705609	Resistor	R271,R273,R274,R286,R46-R49,R- 650,R664,R672,R678,R686,R693,R- 712,R719,R728,R731,R732,R739,R- 742,R75,R752,R763,R765	Bellcore Issue 6	Level I		0.002210	25.00	.3336	0.055261	452402189.45
105A705609	Resistor	R768,R771,R773,R774,R777,R781- R785,R788,R794,R797,R824	Bellcore Issue 6	Level I		0.002210	11.00	.1468	0.024315	452402189.45
105A515009	Resistor	R136,R137,R156,R159,R161,R165- R17,R356-R358,R362,R384,R53,R7	Bellcore Issue 6	Level I		0.002210	14.00	.1868	0.030946	452402189.45
105A703909	Resistor	R158,R261,R266,R267,R538,R637- R775,R778,R783,R789,R790	Bellcore Issue 6	Level I		0.002210	11.00	.1468	0.024315	452402189.45
1211100160	Inductor	L58,L74	Bellcore Issue 6	Level I		0.083996	2.00	1.0141	0.167992	11905320.78
105A703329	Resistor	R105,R117,R424,R432,R435,R440- R451,R468,R488,R515,R88,R96	Bellcore Issue 6	Level I		0.002210	12.00	.1601	0.026525	452402189.45
1124533190	Capacitor	C11,C219,C243,C244,C246,C248,- C249,C254,C257,C272,C277,C3,C- 308-C310,C346,C46,C721,C728,C- 729	Bellcore Issue 6	Level I		0.004421	20.00	.5337	0.088417	226201094.73
14S1035801	Integrated Circuit	U9	Bellcore Issue 6	Level I		0.053958	1.00	.3257	0.053958	18532991.21
105A554963	Resistor	R310,R700,R70,R769	Bellcore Issue 6	Level I		0.002210	4.00	.0534	0.008842	452402189.45
1189615187	Capacitor	EC2,EC30,EC31,EC5	Bellcore Issue 6	Level I		0.004421	4.00	.1067	0.017683	226201094.73
105A501133	Resistor	R899	Bellcore Issue 6	Level I		0.002210	1.00	.0133	0.002210	452402189.45

AAEON Reliability Prediction Report

Part Number 9697945802-DIP
Reference Des
Date 12. 25, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 23.70

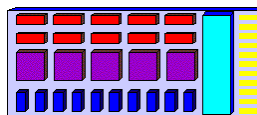


Description Top-level assembly
File Name EMB-9458T.RPJ
Time 10:59 上午
Failure Rate 16.566048
MTBF 60,364

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1121501690	Capacitor	C53,C532,C534,C55,C552,C553,C-573,C582,C584,C585,C588,C594,C-596,C597,C599,C600,C606,C613,C-616,C617,C622,C623,C625	Bellcore Issue 6	Level I		0.004421	23.00	.6138	0.101679	226201094.73
1121501690	Capacitor	C627,C631,C634,C641,C647,C648-C654,C655,C659,C665,C79	Bellcore Issue 6	Level I		0.004421	11.00	.2935	0.048629	226201094.73
1129522790	Capacitor	C230,C29,C241,C465,C478,C489,-C523,C530,C572	Bellcore Issue 6	Level I		0.004421	9.00	.2402	0.039788	226201094.73
123131435B	Miscellaneous	Y2	Bellcore Issue 6	Level I		0.150000	1.00	.9055	0.150000	6666666.67
1231325058	Miscellaneous	Y1,Y4	Bellcore Issue 6	Level I		0.150000	2.00	1.8109	0.300000	6666666.67
14S4121601	Integrated Circuit	U41	Bellcore Issue 6	Level I		0.036392	1.00	.2197	0.036392	27478246.56
165320520C	Connection	CN20-CN22	Bellcore Issue 6	Level I		0.005314	3.00	.0962	0.015943	188166061.48
165321320E	Connection	CN17	Bellcore Issue 6	Level I		0.013818	1.00	.0834	0.013818	72371562.11
121110336D	Inductor	L12	Bellcore Issue 6	Level I		0.083996	1.00	.5070	0.083996	11905320.78
1315441014	Semiconductor	Q19,Q26,Q27,Q8	Bellcore Issue 6	Level I		0.046003	4.00	1.1108	0.184012	21737765.58
1315441014	Semiconductor	Q7	Bellcore Issue 6	Level I	20.20	0.079600	1.00	.4805	0.079600	12562799.54
106B501032	Resistor	RT2-RT5	Bellcore Issue 6	Level I		0.010629	4.00	.2566	0.042516	94083030.74
106B747030	Resistor	RT1	Bellcore Issue 6	Level I		0.010629	1.00	.0642	0.010629	94083030.74
1189633184	Capacitor	EC32	Bellcore Issue 6	Level I	18.80	0.006270	1.00	.0378	0.006270	159483795.54
1189633184	Capacitor	C87,EC27,EC28,EC33-EC34	Bellcore Issue 6	Level I		0.004421	5.00	.1334	0.022104	226201094.73
1189633184	Capacitor	C85	Bellcore Issue 6	Level I	9.30	0.005283	1.00	.0319	0.005283	189270093.79
1189647180	Capacitor	C118,C378	Bellcore Issue 6	Level I		0.004421	2.00	.0534	0.008842	226201094.73
14S3422600	Integrated Circuit	U12	Bellcore Issue 6	Level II	32.70	0.158100	1.00	.9544	0.158100	6325100.55
14S3626200	Integrated Circuit	U18	Bellcore Issue 6	Level I		0.053958	1.00	.3257	0.053958	18532991.21
1129622050	Capacitor	C179-C182,C184,C185,C192,C193-C195,C196,C199,C200,C204,C205-C564,C566,C586,C587,C633,C642-C660,C666	Bellcore Issue 6	Level I		0.004421	22.00	.5871	0.097259	226201094.73
1121647480	Capacitor	C403,C404,C451,C453,C453,C487-C499,C520,C545,C567,C568,C578-C726	Bellcore Issue 6	Level I		0.004421	13.00	.3469	0.057471	226201094.73
1315970211	Integrated Circuit	U23,U37,U38,U4	Bellcore Issue 6	Level I		0.053958	4.00	1.3029	0.215831	18532991.21
105A514733	Resistor	R315	Bellcore Issue 6	Level I		0.002210	1.00	.0133	0.002210	452402189.45
105A526113	Resistor	R904	Bellcore Issue 6	Level I		0.002210	1.00	.0133	0.002210	452402189.45
14S4294501	Integrated Circuit	U11	Bellcore Issue 6	Level I		0.036392	1.00	.2197	0.036392	27478246.56

AAEON Reliability Prediction Report

Part Number 9697945802-DIP
Reference Des
Date 12. 25, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 23.70



Description Top-level assembly
File Name EMB-9458T.RPJ
Time 10:59 上午
Failure Rate 16.566048
MTBF 60,364

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1301581943	Semiconductor	D13	Bellcore Issue 6	Level I		0.023001	1.00	.1388	0.023001	43475531.16
1211101569	Inductor	L17	Bellcore Issue 6	Level I		0.070358	1.00	.4247	0.070358	14212994.81
1300581940	Semiconductor	D44	Bellcore Issue 6	Level I	19.00	0.038600	1.00	.2330	0.038600	25906652.86
1300581940	Semiconductor	D10,D29,D45	Bellcore Issue 6	Level I		0.023001	3.00	.4165	0.069004	43475531.16
14S3128421	Integrated Circuit	U17	Bellcore Issue 6	Level I		0.053958	1.00	.3257	0.053958	18532991.21
14S4195710	Integrated Circuit	U47,U48	Bellcore Issue 6	Level I		0.036392	2.00	.4394	0.072785	27478246.56
1211106802	Inductor	L27,L28	Bellcore Issue 6	Level I		0.083996	2.00	1.0141	0.167992	11905320.78
1124515880	Capacitor	C227	Bellcore Issue 6	Level I		0.004421	1.00	.0267	0.004421	226201094.73
1122522890	Capacitor	C454,C485,C491,C514,C518,C531-C535	Bellcore Issue 6	Level I		0.004421	7.00	.1868	0.030946	226201094.73
105A518213	Resistor	R895	Bellcore Issue 6	Level I		0.002210	1.00	.0133	0.002210	452402189.45
14S4871204	Integrated Circuit	U13	Bellcore Issue 6	Level I	13.50	0.078265	1.00	.4724	0.078265	12777139.32
14S4825730	Integrated Circuit	U6	Bellcore Issue 6	Level I	12.80	0.075342	1.00	.4548	0.075342	13272847.86
14S4825730	Integrated Circuit	U8	Bellcore Issue 6	Level I		0.036392	1.00	.2197	0.036392	27478246.56
14S6308001	Integrated Circuit	U26,U27	Bellcore Issue 6	Level I		0.043495	2.00	.5251	0.086991	22991008.54
11E1647650	Capacitor	C109,C197,C198,C213,C217,C278-C279,C700,C731,C78	Bellcore Issue 6	Level I		0.004421	10.00	.2669	0.044208	226201094.73
11E9501091	Capacitor	C110,C123,C138,C148,C16,C240,-C252,C260,C264,C270,C271,C297-C300,C315,C32,C324,C329,C35,C-352,C354,C37,C38,C40,C41	Bellcore Issue 6	Level I		0.004421	27.00	.7205	0.119363	226201094.73
11E9501091	Capacitor	C43,C45,C48,C490,C5,C571,C58,-C605,C61,C612,C62,C629,C639,C-640,C66,C661,C663,C683,C684,C6-9,C722	Bellcore Issue 6	Level I		0.004421	20.00	.5337	0.088417	226201094.73
1121533480	Capacitor	C709,C724	Bellcore Issue 6	Level I		0.004421	2.00	.0534	0.008842	226201094.73
14S3524700	Integrated Circuit	Q3	Bellcore Issue 6	Level I		0.053958	1.00	.3257	0.053958	18532991.21
1311138610	Semiconductor	Q11,Q28	Bellcore Issue 6	Level I		0.023001	2.00	.2777	0.046003	43475531.16
1211101063	Inductor	L21,L29	Bellcore Issue 6	Level I		0.083996	2.00	1.0141	0.167992	11905320.78
1752001601	Miscellaneous	FS1,FS2	Bellcore Issue 6	Level I		0.030000	2.00	.3622	0.060000	33333333.33
14S4963500	Integrated Circuit	U28	Bellcore Issue 6	Level I		0.036392	1.00	.2197	0.036392	27478246.56
1315889612	Semiconductor	Q46	Bellcore Issue 6	Level I	23.10	0.142718	1.00	.8615	0.142718	7006809.41
1315889612	Semiconductor	Q43-Q45	Bellcore Issue 6	Level I		0.076671	3.00	1.3885	0.230014	13042659.35
14S428010E	Integrated Circuit	U15	Bellcore Issue 6	Level I	20.20	0.111710	1.00	.6743	0.111710	8951752.22

AAEON Reliability Prediction Report

Part Number 9697945802-DIP
Reference Des
Date 12. 25, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 23.70



Description Top-level assembly
File Name EMB-9458T.RPJ
Time 10:59 上午
Failure Rate 16.566048
MTBF 60,364

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1314570810	Semiconductor	Q12	Bellcore Issue 6	Level I		0.046003	1.00	.2777	0.046003	21737765.58
1654040003	Connection	CN12	Bellcore Issue 6	Level I		0.021258	1.00	.1283	0.021258	47041515.37
1651611994	Connection	U16	Bellcore Issue 6	Level I		0.254031	1.00	1.5334	0.254031	3936528.48
1654030003	Connection	CN11	Bellcore Issue 6	Level I		0.001594	1.00	.0096	0.001594	627220204.93
1655901000	Connection	CN15	Bellcore Issue 6	Level I		0.005314	1.00	.0321	0.005314	188166061.48
1305100541	Semiconductor	D1,D15,D16,D2,D20-D27,D3,D38,D-39,D4,D40-D43,D5,D6	Bellcore Issue 6	Level I		0.044208	22.00	5.8710	0.972586	22620109.47
14S1230400	Integrated Circuit	U1	Bellcore Issue 6	Level I		0.053958	1.00	.3257	0.053958	18532991.21
165322020L	Connection	IDE1	Bellcore Issue 6	Level I		0.021258	1.00	.1283	0.021258	47041515.37
14S9080901	Integrated Circuit	U50	Bellcore Issue 6	Level I		0.053958	1.00	.3257	0.053958	18532991.21
105A500233	Resistor	R325,R4669,R766	Bellcore Issue 6	Level I		0.002210	3.00	.0400	0.006631	452402189.45
105A501223	Resistor	R372	Bellcore Issue 6	Level I		0.002210	1.00	.0133	0.002210	452402189.45
105A502033	Resistor	R334,R441,R865	Bellcore Issue 6	Level I		0.002210	3.00	.0400	0.006631	452402189.45
105A503033	Resistor	R317,R684	Bellcore Issue 6	Level I		0.002210	2.00	.0267	0.004421	452402189.45
105A505623	Resistor	R328,R407	Bellcore Issue 6	Level I		0.002210	2.00	.0267	0.004421	452402189.45
105A701203	Resistor	R529,R530,R531	Bellcore Issue 6	Level I		0.002210	3.00	.0400	0.006631	452402189.45
105A704733	Resistor	R341,R364	Bellcore Issue 6	Level I		0.002210	2.00	.0267	0.004421	452402189.45
105A705123	Resistor	R427	Bellcore Issue 6	Level I		0.002210	1.00	.0133	0.002210	452402189.45
105A503633	Resistor	R466,R866	Bellcore Issue 6	Level I		0.002210	2.00	.0267	0.004421	452402189.45
105A520003	Resistor	R633	Bellcore Issue 6	Level I		0.002210	1.00	.0133	0.002210	452402189.45
105A523233	Resistor	R695	Bellcore Issue 6	Level I		0.002210	1.00	.0133	0.002210	452402189.45
105A733033	Resistor	R793	Bellcore Issue 6	Level I		0.002210	1.00	.0133	0.002210	452402189.45
105A516213	Resistor	R426	Bellcore Issue 6	Level I		0.002210	1.00	.0133	0.002210	452402189.45
105A700103	Resistor	R448,R449,R796,R870,R886,R889	Bellcore Issue 6	Level I		0.002210	6.00	.0801	0.013263	452402189.45
105A547503	Resistor	R641	Bellcore Issue 6	Level I		0.002210	1.00	.0133	0.002210	452402189.45
105A522663	Resistor	R743	Bellcore Issue 6	Level I		0.002210	1.00	.0133	0.002210	452402189.45
105A501039	Resistor	R320,R324,R567,R674,R697,R703-R707,R791	Bellcore Issue 6	Level I		0.002210	11.00	.1468	0.024315	452402189.45
105A705139	Resistor	R586,R648,R669,R673,R852,R857-R917,R918	Bellcore Issue 6	Level I		0.002210	8.00	.1067	0.017683	452402189.45
105A707509	Resistor	R352-R354,R772	Bellcore Issue 6	Level I		0.002210	4.00	.0534	0.008842	452402189.45
105A510213	Resistor	R464	Bellcore Issue 6	Level I		0.002210	1.00	.0133	0.002210	452402189.45

