

EMB-900M Reliability Prediction Report (MTBF)

Report NO : 05E070016

08-01-2005

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . Model Name: EMB-900M (Micro ATX,L-775,LCD-DVI,DDRII,2GbE,HD Audio,4COM,USB 2.0,CF,PCI-E,M-PCI,Rev.A1.0)

II . Prediction Date: Aug. 1th, 2005

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

VII. Term and Definition:

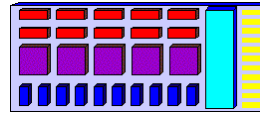
- Unit : An assembly of device.
- Duty Cycle : Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure 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: 19.441732 ppm
- MTBF: 51,436 Hours

AAEON Reliability Prediction Report

Part Number 9697900002
Reference Des
Date 08. 2, 2005
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 24.20

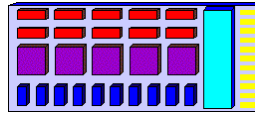


Description Top-level assembly
File Name EMB-900M-A02.RPJ
Time 11:37 上午
Failure Rate 19.441732
MTBF 51,436

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
EMB-900M	9697900002	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	19.441732	51,436

AAEON Reliability Prediction Report

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Temperature 24.20

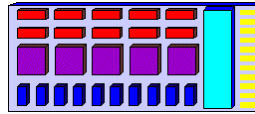


Description Top-level assembly
File Name EMB-900M-A02.RPJ
Time 11:37 上午
Failure Rate 19.441732
MTBF 51,436

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1759100002	Miscellaneous	BUZZ1	Bellcore Issue 6	Level I		0.150000	1.00	.7715	0.150000	6666666.67
1655404020	Connection	CN2	Bellcore Issue 6	Level I		0.002182	1.00	.0112	0.002182	458198940.70
1655004014	Connection	CN4	Bellcore Issue 6	Level I		0.002182	1.00	.0112	0.002182	458198940.70
1653005200	Connection	CN11	Bellcore Issue 6	Level I		0.005456	1.00	.0281	0.005456	183279576.28
1211100100	Inductor	L15	Bellcore Issue 6	Level I	15.20	0.002968	1.00	.0153	0.002968	336911645.47
1119622195	Capacitor	EC1,EC12,EC15,EC19,EC2,EC20-- EC23,EC3,EC35,EC4,EC41,EC5,E- C54,EC9	Bellcore Issue 6	Level I		0.043347	16.00	3.5674	0.693558	23069460.10
1111647191	Capacitor	EC11,EC14,EC55,EC57	Bellcore Issue 6	Level I		0.043540	4.00	.8958	0.174158	22967590.20
16515C0494	Connection	DDRI12,DDRI14	Bellcore Issue 6	Level I		0.130947	2.00	1.3471	0.261895	7636649.01
1169656190	Capacitor	EC17,EC18,EC25-EC30,EC36,EC39	Bellcore Issue 6	Level I		0.005437	10.00	.2797	0.054371	183922840.01
165322020D	Connection	IDE1	Bellcore Issue 6	Level I		0.021825	1.00	.1123	0.021825	45819894.07
1654249202	Connection	ISA1	Bellcore Issue 6	Level I		0.031646	1.00	.1628	0.031646	31599926.94
1653003100	Connection	JP4,JP5	Bellcore Issue 6	Level I		0.001637	2.00	.0168	0.003274	610931920.93
1654425302	Connection	LPT1	Bellcore Issue 6	Level I		0.013640	1.00	.0702	0.013640	73311830.51
1211100103	Inductor	L1	Bellcore Issue 6	Level I		0.084829	1.00	.4363	0.084829	11788427.94
1211100302	Inductor	L13	Bellcore Issue 6	Level I		0.084829	1.00	.4363	0.084829	11788427.94
1654260201	Connection	PCI1,PCI2	Bellcore Issue 6	Level I		0.065474	2.00	.6735	0.130947	15273298.02
1653900034	Connection	CFD1	Bellcore Issue 6	Level I		0.001091	1.00	.0056	0.001091	916397881.40
1655004022	Connection	CN1	Bellcore Issue 6	Level I		0.002182	1.00	.0112	0.002182	458198940.70
16515C0492	Connection	DDRII1,DDRII3	Bellcore Issue 6	Level I		0.130947	2.00	1.3471	0.261895	7636649.01
111961029D	Capacitor	EC13,EC16,EC24,EC31-EC34,EC3- 7,EC38,EC40,EC42-EC53,EC56,E- C58,EC59	Bellcore Issue 6	Level I		0.072246	25.00	9.2900	1.806140	13841676.06
1653217202	Connection	FDD1	Bellcore Issue 6	Level I		0.018551	1.00	.0954	0.018551	53905757.73
1653002101	Connection	JP2,JP3	Bellcore Issue 6	Level I		0.001091	2.00	.0112	0.002182	916397881.40
1654612304	Connection	KBMS1	Bellcore Issue 6	Level I		0.003274	1.00	.0168	0.003274	305465960.47
1211100962	Inductor	L11	Bellcore Issue 6	Level I	19.80	0.003218	1.00	.0166	0.003218	310750685.82
1211100962	Inductor	L4	Bellcore Issue 6	Level I	25.30	0.003534	1.00	.0182	0.003534	282979171.12
1211100962	Inductor	L3	Bellcore Issue 6	Level I	23.70	0.003440	1.00	.0177	0.003440	290695551.87
1211100962	Inductor	L2	Bellcore Issue 6	Level I	21.90	0.003336	1.00	.0172	0.003336	299724939.09
1654218202	Connection	PCI-E1,PCI-E2	Bellcore Issue 6	Level I		0.019642	2.00	.2021	0.039284	50910993.41
1655420023	Connection	CN12	Bellcore Issue 6	Level I		0.013095	1.00	.0674	0.013095	76366490.12

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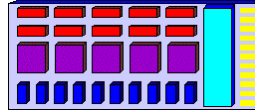


Description Top-level assembly
File Name EMB-900M-A02.RPJ
Time 11:37 上午
Failure Rate 19.441732
MTBF 51,436

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1653220203	Connection	CN14	Bellcore Issue 6	Level I		0.021825	1.00	.1123	0.021825	45819894.07
1653006100	Connection	CN15	Bellcore Issue 6	Level I		0.003274	1.00	.0168	0.003274	305465960.47
1315600200	Semiconductor	Q57,Q60,Q61,Q64,Q65,Q68,Q69	Bellcore Issue 6	Level I		0.077789	7.00	2.8008	0.544524	12855269.30
1315600200	Semiconductor	Q56	Bellcore Issue 6	Level I	13.70	0.113569	1.00	.5842	0.113569	8805182.04
1315800200	Semiconductor	Q58,Q59,Q62,Q63,Q66,Q67,Q70,Q-71	Bellcore Issue 6	Level I		0.077789	8.00	3.2009	0.622313	12855269.30
1654907000	Connection	SATA1-SATA4	Bellcore Issue 6	Level I		0.003819	4.00	.0786	0.015277	261827966.11
1652903202	Connection	SPDIF1	Bellcore Issue 6	Level I		0.001637	1.00	.0084	0.001637	610931920.93
1652903201	Connection	SPDIF2	Bellcore Issue 6	Level I		0.001637	1.00	.0084	0.001637	610931920.93
1652522201	Connection	USB RJ1, USB RJ2	Bellcore Issue 6	Level I		0.012004	2.00	.1235	0.024007	83308898.31
1211100200	Inductor	L14	Bellcore Issue 6	Level I	14.70	0.002942	1.00	.0151	0.002942	339933573.22
14S6200402	Integrated Circuit	U28	Bellcore Issue 6	Level I		0.149133	1.00	.7671	0.149133	6705439.81
1750220320	Connection	BAT1	Bellcore Issue 6	Level I		0.001091	1.00	.0056	0.001091	916397881.40
1652530200	Connection	AUDIO1	Bellcore Issue 6	Level I		0.016368	1.00	.0842	0.016368	61093192.09
1750119011	Miscellaneous	BAT1	Bellcore Issue 6	Level I		0.900000	1.00	4.6292	0.900000	1111111.11
1655003000	Connection	CN10,CN13	Bellcore Issue 6	Level I		0.001637	2.00	.0168	0.003274	610931920.93
1654430301	Connection	DVI1	Bellcore Issue 6	Level I		0.016368	1.00	.0842	0.016368	61093192.09
1111610211	Capacitor	EC10,EC6-EC8	Bellcore Issue 6	Level I		0.043540	4.00	.8958	0.174158	22967590.20
105A560463	Resistor	R174,R590,R601	Bellcore Issue 6	Level I		0.002232	3.00	.0344	0.006697	447960261.61
105A500233	Resistor	R186,R330,R337	Bellcore Issue 6	Level I		0.002232	3.00	.0344	0.006697	447960261.61
105A523233	Resistor	R198	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
105A500133	Resistor	R237,R239,R240,R241,R308,R328-R336	Bellcore Issue 6	Level I		0.002232	7.00	.0804	0.015626	447960261.61
105A547033	Resistor	R280	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
105A551163	Resistor	R597,R621-R623,R637	Bellcore Issue 6	Level I		0.002232	5.00	.0574	0.011162	447960261.61
105A700139	Resistor	R146,R163,R164,R165,R168,R176-R194,R212,R215,R243,R255,R30-R32,R338	Bellcore Issue 6	Level I		0.002232	15.00	.1722	0.033485	447960261.61
105A700139	Resistor	R339,R341,R343,R384,R386,R456-R460,R472,R473,R551,R631,R638-R643,R651	Bellcore Issue 6	Level I		0.002232	14.00	.1608	0.031253	447960261.61
105A700139	Resistor	R662,R667,R668,R672,R681,R683-R684,R689,R690,R706,R707,R753-R763,R84	Bellcore Issue 6	Level I		0.002232	14.00	.1608	0.031253	447960261.61

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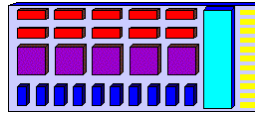


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File Name EMB-900M-A02.RPJ
Time 11:37 上午
Failure Rate 19.441732
MTBF 51,436

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A700139	Resistor	R89,R95,R97	Bellcore Issue 6	Level I		0.002232	3.00	.0344	0.006697	447960261.61
105A502833	Resistor	R75,R85	Bellcore Issue 6	Level I		0.002232	2.00	.0230	0.004465	447960261.61
105A710039	Resistor	R389,R514,R519,R661,R673,R682-R696,R697,R708-R710,R80	Bellcore Issue 6	Level I		0.002232	12.00	.1378	0.026788	447960261.61
105A547503	Resistor	R101,R794	Bellcore Issue 6	Level I		0.002232	2.00	.0230	0.004465	447960261.61
105A703323	Resistor	R119	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
14S4081110	Integrated Circuit	U45	Bellcore Issue 6	Level I		0.055983	1.00	.2880	0.055983	17862712.49
14S5A00700	Integrated Circuit	U47	Bellcore Issue 6	Level I		0.036144	1.00	.1859	0.036144	27667241.25
14S4655600	Integrated Circuit	U48	Bellcore Issue 6	Level I	10.30	0.116423	1.00	.5988	0.116423	8589367.01
14S4813000	Integrated Circuit	U49	Bellcore Issue 6	Level I		0.037486	1.00	.1928	0.037486	26676778.99
14S4650601	Integrated Circuit	U50	Bellcore Issue 6	Level I		0.055983	1.00	.2880	0.055983	17862712.49
14S2705700	Integrated Circuit	U51	Bellcore Issue 6	Level I		0.055983	1.00	.2880	0.055983	17862712.49
1231325050	Miscellaneous	Y1,Y2	Bellcore Issue 6	Level I		0.150000	2.00	1.5431	0.300000	6666666.67
1231314350	Miscellaneous	Y3,Y4	Bellcore Issue 6	Level I		0.150000	2.00	1.5431	0.300000	6666666.67
1231332721	Miscellaneous	Y5	Bellcore Issue 6	Level I		0.150000	1.00	.7715	0.150000	6666666.67
12313012A1	Miscellaneous	Y6	Bellcore Issue 6	Level I		0.150000	1.00	.7715	0.150000	6666666.67
105A702233	Resistor	R162,R287,R289,R549,R657,R663	Bellcore Issue 6	Level I		0.002232	6.00	.0689	0.013394	447960261.61
105A502003	Resistor	R188	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
105A503033	Resistor	R191	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
14S4021301	Integrated Circuit	U37	Bellcore Issue 6	Level I	10.70	0.119663	1.00	.6155	0.119663	8356824.45
14S4021301	Integrated Circuit	U38-U40	Bellcore Issue 6	Level I		0.055983	3.00	.8639	0.167948	17862712.49
14S3020100	Integrated Circuit	U41	Bellcore Issue 6	Level I		0.055983	1.00	.2880	0.055983	17862712.49
105A510009	Resistor	R120,R190,R297,R441,R543,R606-R608,R610,R618,R63,R634,R655	Bellcore Issue 6	Level I		0.002232	12.00	.1378	0.026788	447960261.61
105A704729	Resistor	R155,R157,R158,R18,R181,R213,-R216,R276,R335,R396-R398,R455-R457,R512	Bellcore Issue 6	Level I		0.002232	15.00	.1722	0.033485	447960261.61
105A704729	Resistor	R513,R516,R517,R544,R547,R548,-R567,R568,R66,R664,R677,R755,-R791-R793	Bellcore Issue 6	Level I		0.002232	15.00	.1722	0.033485	447960261.61
105A704729	Resistor	R91-R94	Bellcore Issue 6	Level I		0.002232	4.00	.0459	0.008929	447960261.61
105A708229	Resistor	R117,R128,R147,R19,R232,R235,-R254,R312-R315,R317,R320,R322-R324,R325	Bellcore Issue 6	Level I		0.002232	17.00	.1952	0.037950	447960261.61

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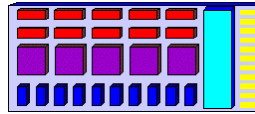


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MTBF 51,436

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105A708229	Resistor	R392,R394,R445,R450,R659,R675-R679,R680,R685,R686,R754,R764-R768	Bellcore Issue 6	Level I		0.002232	16.00	.1837	0.035717	447960261.61
105A501039	Resistor	R169,R172,R177,R179,R182,R204-R206,R209,R21,R282,R462,R67	Bellcore Issue 6	Level I		0.002232	12.00	.1378	0.026788	447960261.61
105A507503	Resistor	R25-R27	Bellcore Issue 6	Level I		0.002232	3.00	.0344	0.006697	447960261.61
105A539223	Resistor	R68	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
105A502033	Resistor	R333,R465,R69,R74,R86	Bellcore Issue 6	Level I		0.002232	5.00	.0574	0.011162	447960261.61
105A701039	Resistor	R125,R126,R137,R160,R180,R224-R234,R236,R251,R332,R407,R461-R468,R520	Bellcore Issue 6	Level I		0.002232	14.00	.1608	0.031253	447960261.61
105A701039	Resistor	R522,R524,R542,R576-R578,R624-R625,R628,R630,R636,R687,R692-R761,R762	Bellcore Issue 6	Level I		0.002232	15.00	.1722	0.033485	447960261.61
105A701039	Resistor	R79	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
105A705139	Resistor	R403,R440,R448,R452,R459,R515-R518,R678,R81	Bellcore Issue 6	Level I		0.002232	9.00	.1033	0.020091	447960261.61
105A733009	Resistor	R154,R156,R298,R299,R306,R307-R323,R326,R442,R443,R676,R704-R82	Bellcore Issue 6	Level I		0.002232	13.00	.1493	0.029020	447960261.61
105A503309	Resistor	R102-R104,R107-R116,R130-R136-R138-R145,R148,R248,R773	Bellcore Issue 6	Level I		0.002232	31.00	.3559	0.069203	447960261.61
105A701533	Resistor	R152,R161	Bellcore Issue 6	Level I		0.002232	2.00	.0230	0.004465	447960261.61
105A530103	Resistor	R173	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
105A549969	Resistor	R175,R487-R502,R527-R536,R555-R564,R603,R611-R614,R619,R620	Bellcore Issue 6	Level I		0.002232	44.00	.5052	0.098223	447960261.61
105A506823	Resistor	R183,R202	Bellcore Issue 6	Level I		0.002232	2.00	.0230	0.004465	447960261.61
105A525503	Resistor	R187	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
105A510203	Resistor	R189	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
105A703909	Resistor	R192,R193,R351-R354,R372,R373-R376,R377,R379-R382,R408-R411-R429,R430	Bellcore Issue 6	Level I		0.002232	20.00	.2296	0.044647	447960261.61
105A703909	Resistor	R433,R434,R436-R439	Bellcore Issue 6	Level I		0.002232	6.00	.0689	0.013394	447960261.61
105A715009	Resistor	R197,R199,R201,R203,R205,R208-R225-R229,R478,,R479,R481,R48-2,R769	Bellcore Issue 6	Level I		0.002232	16.00	.1837	0.035717	447960261.61
105A715009	Resistor	R770-R772	Bellcore Issue 6	Level I		0.002232	3.00	.0344	0.006697	447960261.61
105A512033	Resistor	R200	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61

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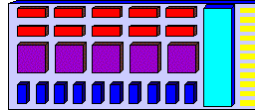


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MTBF 51,436

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A524963	Resistor	R230,R311,R632	Bellcore Issue 6	Level I		0.002232	3.00	.0344	0.006697	447960261.61
105A580663	Resistor	R233,R242	Bellcore Issue 6	Level I		0.002232	2.00	.0230	0.004465	447960261.61
105A522663	Resistor	R250	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
105A500333	Resistor	R262-R265	Bellcore Issue 6	Level I		0.002232	4.00	.0459	0.008929	447960261.61
105A702733	Resistor	R227,R550	Bellcore Issue 6	Level I		0.002232	2.00	.0230	0.004465	447960261.61
1124515180	Capacitor	C768	Bellcore Issue 6	Level I		0.001055	1.00	.0054	0.001055	948153417.43
1301005442	Semiconductor	D27,D29,D7	Bellcore Issue 6	Level I		0.023337	3.00	.3601	0.070010	42850897.67
1301005441	Semiconductor	D11	Bellcore Issue 6	Level I		0.023337	1.00	.1200	0.023337	42850897.67
121230603H	Inductor	FB1,FB12,FB17-FB20,FB29,FB30,- FB35-FB43,FB45,FB5-FB7	Bellcore Issue 6	Level I		0.002232	21.00	.2411	0.046879	447960261.61
121230603U	Inductor	FB10,FB11,FB44,FB8,FB9,R2,R23,- R3,R34,R35,R46,R469,R471,R7,R- 70,R76,R9	Bellcore Issue 6	Level I		0.002232	17.00	.1952	0.037950	447960261.61
105A700003	Resistor	FB21,FB23	Bellcore Issue 6	Level I		0.002232	2.00	.0230	0.004465	447960261.61
1653003202	Connection	JP1,JP6,JP8	Bellcore Issue 6	Level I		0.003274	3.00	.0505	0.009821	305465960.47
1304001340	Semiconductor	LED2-LED5	Bellcore Issue 6	Level I		0.004532	4.00	.0932	0.018127	220670511.53
1211100102	Inductor	L12,L9	Bellcore Issue 6	Level I		0.002232	2.00	.0230	0.004465	447960261.61
1211100109	Inductor	L17	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
1311006910	Semiconductor	Q5,Q6,Q8	Bellcore Issue 6	Level I		0.023337	3.00	.3601	0.070010	42850897.67
1311006910	Semiconductor	Q7	Bellcore Issue 6	Level I	17.80	0.037913	1.00	.1950	0.037913	26376273.31
14S6340808	Integrated Circuit	U14,U15	Bellcore Issue 6	Level I		0.045127	2.00	.4642	0.090255	22159497.66
14S1488000	Integrated Circuit	U16	Bellcore Issue 6	Level I		0.055983	1.00	.2880	0.055983	17862712.49
14S4410100	Integrated Circuit	U18	Bellcore Issue 6	Level I	24.40	0.142118	1.00	.7310	0.142118	7036425.24
1314515110	Integrated Circuit	U19	Bellcore Issue 6	Level I		0.055983	1.00	.2880	0.055983	17862712.49
14S3128420	Integrated Circuit	U21	Bellcore Issue 6	Level I		0.055983	1.00	.2880	0.055983	17862712.49
14S4730800	Integrated Circuit	U22	Bellcore Issue 6	Level I	14.50	0.154764	1.00	.7960	0.154764	6461430.80
14S1035801	Integrated Circuit	U23	Bellcore Issue 6	Level I		0.055983	1.00	.2880	0.055983	17862712.49
1651612990	Connection	U25	Bellcore Issue 6	Level I		0.422851	1.00	2.1750	0.422851	2364897.76
14S4291500	Integrated Circuit	U26	Bellcore Issue 6	Level I	16.30	0.093433	1.00	.4806	0.093433	10702829.63
14S4280108	Integrated Circuit	U29	Bellcore Issue 6	Level I	14.80	0.086245	1.00	.4436	0.086245	11594908.63
14S5A00600	Integrated Circuit	U32	Bellcore Issue 6	Level I	11.90	0.071076	1.00	.3656	0.071076	14069420.71
1315030210	Semiconductor	Q36	Bellcore Issue 6	Level I		0.077789	1.00	.4001	0.077789	12855269.30

AAEON Reliability Prediction Report

Part Number 9697900002
Reference Des
Date 08. 2, 2005
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 24.20

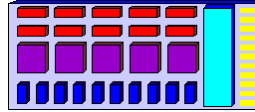


Description Top-level assembly
File Name EMB-900M-A02.RPJ
Time 11:37 上午
Failure Rate 19.441732
MTBF 51,436

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1315035200	Semiconductor	Q46,Q48,Q50,Q51	Bellcore Issue 6	Level I		0.077789	4.00	1.6005	0.311156	12855269.30
1540782282	Resistor	RP1,RP10-RP35,RP2-RP9	Bellcore Issue 6	Level I		0.006021	35.00	1.0839	0.210737	166083755.80
105A702223	Resistor	R1,R6	Bellcore Issue 6	Level I		0.002232	2.00	.0230	0.004465	447960261.61
105A700009	Resistor	R210,R217,R220,R252,R271,R29,- R300-R305,R334,R346,R347,R391- R4,R40	Bellcore Issue 6	Level I		0.002232	18.00	.2067	0.040182	447960261.61
105A700009	Resistor	R400,R402,R404,R41-R43,R447,R- 470,R474-R477,R48,R5,R525,R526- R566,R588	Bellcore Issue 6	Level I		0.002232	18.00	.2067	0.040182	447960261.61
105A700009	Resistor	R639-R642,R644-R650,R665,R671- R72,R784,R87,R88	Bellcore Issue 6	Level I		0.002232	17.00	.1952	0.037950	447960261.61
105A701003	Resistor	R11,R15,R267,R28,R446,R45,R49- R55,R554,R56-R65,R698,R700,R7- 02,R721	Bellcore Issue 6	Level I		0.002232	28.00	.3215	0.062506	447960261.61
105A701003	Resistor	R722-R752,R774	Bellcore Issue 6	Level I		0.002232	32.00	.3674	0.071435	447960261.61
105A703309	Resistor	R13,R14,R218,R244-R247,R249,R- 355-R371,R374,R375,R378,R412-- R428,R431	Bellcore Issue 6	Level I		0.002232	46.00	.5282	0.102688	447960261.61
105A703309	Resistor	R432,R435,R458,R47,R626,R701,- R703,R74,R756	Bellcore Issue 6	Level I		0.002232	9.00	.1033	0.020091	447960261.61
1050502204	Resistor	R105,R106,R149,R150,R151,R17,- R20,R269	Bellcore Issue 6	Level I		0.002232	8.00	.0919	0.017859	447960261.61
105A575003	Resistor	R284	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
105A501523	Resistor	R285,R395	Bellcore Issue 6	Level I		0.002232	2.00	.0230	0.004465	447960261.61
105A702723	Resistor	R288	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
105A768003	Resistor	R290-R295,R331	Bellcore Issue 6	Level I		0.002232	7.00	.0804	0.015626	447960261.61
105A501123	Resistor	R327	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
105A551003	Resistor	R390	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
105A502423	Resistor	R449,R565	Bellcore Issue 6	Level I		0.013394	2.00	.1378	0.026788	74660043.60
105A501223	Resistor	R521	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
105A503633	Resistor	R539,R658	Bellcore Issue 6	Level I		0.002232	2.00	.0230	0.004465	447960261.61
105A704733	Resistor	R546	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
105A720003	Resistor	R572,R653	Bellcore Issue 6	Level I		0.002232	2.00	.0230	0.004465	447960261.61
105A705623	Resistor	R589,R591	Bellcore Issue 6	Level I		0.002232	2.00	.0230	0.004465	447960261.61
105A710053	Resistor	R652	Bellcore Issue 6	Level I		0.013394	1.00	.0689	0.013394	74660043.60
105A722003	Resistor	R666	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61

AAEON Reliability Prediction Report

Part Number 9697900002
Reference Des
Date 08. 2, 2005
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 24.20

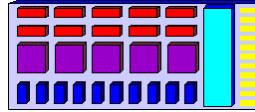


Description Top-level assembly
File Name EMB-900M-A02.RPJ
Time 11:37 上午
Failure Rate 19.441732
MTBF 51,436

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A507523	Resistor	R718	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
1059704761	Resistor	R785-R788	Bellcore Issue 6	Level I		0.002232	4.00	.0459	0.008929	447960261.61
14S4362900	Integrated Circuit	U1	Bellcore Issue 6	Level I	6.60	0.054903	1.00	.2824	0.054903	18213985.60
1315970110	Semiconductor	U11,U42,U43,U5,U7	Bellcore Issue 6	Level I		0.155578	5.00	4.0011	0.777891	6427634.65
14S9660100	Integrated Circuit	U10,U27,U8,U9	Bellcore Issue 6	Level I		0.055983	4.00	1.1518	0.223930	17862712.49
14S4805300	Integrated Circuit	U12	Bellcore Issue 6	Level I	17.00	0.096965	1.00	.4987	0.096965	10313042.37
14S4805300	Integrated Circuit	U13	Bellcore Issue 6	Level I	18.30	0.103835	1.00	.5341	0.103835	9630627.77
14S4362800	Integrated Circuit	U6	Bellcore Issue 6	Level I	8.80	0.062123	1.00	.3195	0.062123	16097220.79
105A733033	Resistor	R310	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
14S5A12503	Integrated Circuit	U33	Bellcore Issue 6	Level I		0.037486	1.00	.1928	0.037486	26676778.99
14S4048502	Integrated Circuit	U35	Bellcore Issue 6	Level I	10.50	0.118033	1.00	.6071	0.118033	8472222.36
14S4048502	Integrated Circuit	U36	Bellcore Issue 6	Level I		0.055983	1.00	.2880	0.055983	17862712.49
1654262300	Connection	MPC11	Bellcore Issue 6	Level I		0.067656	1.00	.3480	0.067656	14780610.99
1314158210	Integrated Circuit	Q12	Bellcore Issue 6	Level I		0.055983	1.00	.2880	0.055983	17862712.49
1310390411	Semiconductor	Q13,Q14,Q20,Q32-35,Q37,Q38	Bellcore Issue 6	Level I		0.023337	9.00	1.0803	0.210031	42850897.67
1315700310	Semiconductor	Q27	Bellcore Issue 6	Level I		0.077789	1.00	.4001	0.077789	12855269.30
1315700310	Semiconductor	Q54	Bellcore Issue 6	Level I	17.50	0.125404	1.00	.6450	0.125404	7974235.76
1315700310	Semiconductor	Q15	Bellcore Issue 6	Level I	13.70	0.113569	1.00	.5842	0.113569	8805182.04
1315700310	Semiconductor	Q18	Bellcore Issue 6	Level I	17.20	0.124437	1.00	.6401	0.124437	8036183.69
1315700310	Semiconductor	Q19	Bellcore Issue 6	Level I	18.80	0.129658	1.00	.6669	0.129658	7712574.72
1315700211	Semiconductor	Q21-Q26,Q30,Q41-Q45,Q47,Q49	Bellcore Issue 6	Level I		0.077789	14.00	5.6016	1.089048	12855269.30
1315230111	Semiconductor	Q29,Q39,Q40	Bellcore Issue 6	Level I		0.077789	3.00	1.2003	0.233367	12855269.30
1315600311	Semiconductor	Q53	Bellcore Issue 6	Level I	17.90	0.126702	1.00	.6517	0.126702	7892561.87
106B501031	Resistor	RT1,RT3,RT4,RT5	Bellcore Issue 6	Level I		0.010912	4.00	.2245	0.043649	91639788.14
105A705123	Resistor	R12,R73,R77,R78	Bellcore Issue 6	Level I		0.002232	4.00	.0459	0.008929	447960261.61
1129610060	Capacitor	C156,C158,C161,C162,C165,C166-C170,C171,C176,C178,C592	Bellcore Issue 6	Level I		0.005999	11.00	.3394	0.065992	166686742.80
1129747650	Capacitor	C189,C217,C223,C239,C248,C259-C270,C313,C334,C550,C577,C722-C723,C766	Bellcore Issue 6	Level I		0.002708	14.00	.1950	0.037913	369265656.71
1124556280	Capacitor	C210	Bellcore Issue 6	Level I		0.001055	1.00	.0054	0.001055	948153417.43
1124456080	Capacitor	C211	Bellcore Issue 6	Level I		0.001055	1.00	.0054	0.001055	948153417.43

AAEON Reliability Prediction Report

Part Number 9697900002
Reference Des
Date 08. 2, 2005
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 24.20

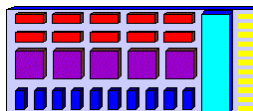


Description Top-level assembly
File Name EMB-900M-A02.RPJ
Time 11:37 上午
Failure Rate 19.441732
MTBF 51,436

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1124533180	Capacitor	C339,C343	Bellcore Issue 6	Level I		0.001055	2.00	.0108	0.002109	948153417.43
1121722650	Capacitor	C348,C518,C520,C522,C594,C767	Bellcore Issue 6	Level I		0.002526	6.00	.0779	0.015155	395921655.95
1124547190	Capacitor	C349,C351,C353,C355,C365,C372-C374,C381,C384,C385,C392,C412	Bellcore Issue 6	Level I		0.001055	12.00	.0651	0.012656	948153417.43
1124418190	Capacitor	C350,C352,C354,C356,C366,C373-C375,C382,C390,C391,C393,C413	Bellcore Issue 6	Level I		0.001055	12.00	.0651	0.012656	948153417.43
1124533080	Capacitor	C434,C435MC457,C458,C604,C605	Bellcore Issue 6	Level I		0.001055	6.00	.0325	0.006328	948153417.43
1124405080	Capacitor	C534,C545	Bellcore Issue 6	Level I		0.001055	2.00	.0108	0.002109	948153417.43
1124422080	Capacitor	C555,C565,C590,C685,C687	Bellcore Issue 6	Level I		0.001055	5.00	.0271	0.005273	948153417.43
1301005440	Semiconductor	D1,D10,D2,D24-D26,D28,D30-D32-D35,D6,D9	Bellcore Issue 6	Level I		0.023337	13.00	1.5604	0.303378	42850897.67
1301002240	Semiconductor	D33,D34	Bellcore Issue 6	Level I		0.023337	2.00	.2401	0.046673	42850897.67
121230603T	Inductor	FB2-FB4	Bellcore Issue 6	Level I		0.002232	3.00	.0344	0.006697	447960261.61
1059700001	Resistor	FB14,FB22,FB25-FB28,FB31-FB34-R221,R258,R260,R503,R505,R506-R508,R509	Bellcore Issue 6	Level I		0.002232	18.00	.2067	0.040182	447960261.61
1059700001	Resistor	R511,R541,R579,R670-R672,R775-R778,R782	Bellcore Issue 6	Level I		0.002232	11.00	.1263	0.024556	447960261.61
1304101340	Semiconductor	LED1	Bellcore Issue 6	Level I		0.004532	1.00	.0233	0.004532	220670511.53
1211101005	Inductor	L10,L16,L5-L8	Bellcore Issue 6	Level I		0.084829	6.00	2.6179	0.508974	11788427.94
1653925216	Connection	CFD1	Bellcore Issue 6	Level I		0.027281	1.00	.1403	0.027281	36655915.26
1654030000	Connection	CN3	Bellcore Issue 6	Level I		0.016368	1.00	.0842	0.016368	61093192.09
1653205201	Connection	CN5-CN9	Bellcore Issue 6	Level I		0.005456	5.00	.1403	0.027281	183279576.28
1129747090	Capacitor	C10,C12,C2,C359-C362,C368-C371-C5,C770	Bellcore Issue 6	Level I		0.001055	13.00	.0705	0.013711	948153417.43
1129701690	Capacitor	C101-C104,C106,C107,C109,C11,-C110,C111,C114-C118,C120,C122-C130,C13	Bellcore Issue 6	Level I		0.002526	26.00	.3378	0.065670	395921655.95
1129701690	Capacitor	C134,C136-C148,C152-C155,C163-C167,C169,C17,C173,C179,C18,C-180-C184	Bellcore Issue 6	Level I		0.002526	30.00	.3897	0.075773	395921655.95
1129701690	Capacitor	C186,C191,C197-C206,C20,C21,C-214,C218,C22,C220,C229-C232,C-237,C241	Bellcore Issue 6	Level I		0.002526	24.00	.3118	0.060618	395921655.95
1129701690	Capacitor	C247,C249-C258,C260-C269,C273-C287,C289,C292,C302-C312,C314-C333,C335	Bellcore Issue 6	Level I		0.002526	57.00	.7405	0.143968	395921655.95

AAEON Reliability Prediction Report

Part Number 9697900002
Reference Des
Date 08. 2, 2005
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 24.20

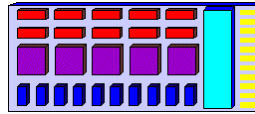


Description Top-level assembly
File Name EMB-900M-A02.RPJ
Time 11:37 上午
Failure Rate 19.441732
MTBF 51,436

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1129701690	Capacitor	C336,C338,C342,C345,C347,C376- C383,C398,C400,C402,C404,C406- C408,C41	Bellcore Issue 6	Level I		0.002526	14.00	.1819	0.035361	395921655.95
1129701690	Capacitor	C417,C42,C438-C440,C443-C448,- C451,C452,C456,C461,C462,C465- C467,C469	Bellcore Issue 6	Level I		0.002526	20.00	.2598	0.050515	395921655.95
1129701690	Capacitor	C470,C472,C474-C477,C479,C481- C483,C485,C487,C489,C493,C497- C501-C506	Bellcore Issue 6	Level I		0.002526	20.00	.2598	0.050515	395921655.95
1129701690	Capacitor	C513,C514,C523,C524,C532,C535- C536,C54,C543,C548,C549,C551,- C552,C56	Bellcore Issue 6	Level I		0.002526	14.00	.1819	0.035361	395921655.95
1129701690	Capacitor	C562-C564,C567,C573,C576,C578- C579,C581-C587,C595-C598,C606- C608,C61	Bellcore Issue 6	Level II		0.000842	23.00	.0996	0.019364	1187764967.85
1129701690	Capacitor	C615-C629,C62,C631-C636,C639,- C641,C646-C649,C65,C651,C655,- C656,C658	Bellcore Issue 6	Level I		0.002526	33.00	.4287	0.083350	395921655.95
1129701690	Capacitor	C659,C66,C660,C662,C663,C666-- C668,C67,C670-C672,C674-C677,- C679,C68	Bellcore Issue 6	Level I		0.002526	18.00	.2338	0.045464	395921655.95
1129701690	Capacitor	C682-C684,C688,C69,C690-C693,- C695,C697,C699,C70,C700,C705,- C708,C709	Bellcore Issue 6	Level I		0.002526	17.00	.2209	0.042938	395921655.95
1129701690	Capacitor	C71,C710-C717,C72,C728,C729,C- 73,C730,C731,C74,C764,C765,C76- 9,C77,C78	Bellcore Issue 6	Level I		0.002526	21.00	.2728	0.053041	395921655.95
1129701690	Capacitor	C79,C8,C82,C92-C94,C96,C97	Bellcore Issue 6	Level I		0.002526	8.00	.1039	0.020206	395921655.95
1129710050	Capacitor	C100,C105,C113,C121,C131,C149- C164,C168,C190,C192-C196,C208- C240,C243	Bellcore Issue 6	Level I		0.002708	17.00	.2368	0.046037	369265656.71
1129710050	Capacitor	C244,C278,C288,C344,C346,C491- C492,C494-C496,C498-C500,C507- C512,C525	Bellcore Issue 6	Level I		0.002708	20.00	.2786	0.054162	369265656.71
1129710050	Capacitor	C526,C540,C541,C544,C547,C554- C561,C572,C574,C575,C580,C600- C601,C603	Bellcore Issue 6	Level I		0.002708	14.00	.1950	0.037913	369265656.71
1129710050	Capacitor	C640,C645,C657,C664,C665,C689- C698,C703,C704,C706,C707,C719- C721,C724	Bellcore Issue 6	Level I		0.002708	15.00	.2089	0.040621	369265656.71
1129710050	Capacitor	C725-C727,C89,C9,C95,C99	Bellcore Issue 6	Level I		0.002708	7.00	.0975	0.018957	369265656.71

AAEON Reliability Prediction Report

Part Number 9697900002
Reference Des
Date 08. 2, 2005
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 24.20

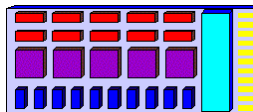


Description Top-level assembly
File Name EMB-900M-A02.RPJ
Time 11:37 上午
Failure Rate 19.441732
MTBF 51,436

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1124410190	Capacitor	C23-C37,C377-380,C38,C39,C732-C763	Bellcore Issue 6	Level I		0.001055	53.00	.2875	0.055898	948153417.43
1124427080	Capacitor	C363,C364,C52,C58	Bellcore Issue 6	Level I		0.001055	4.00	.0217	0.004219	948153417.43
1129701790	Capacitor	C108,C132,C133,C207,C209,C226-C245,C246,C271,C272,C274-C277-C290,C291	Bellcore Issue 6	Level I		0.001589	16.00	.1308	0.025427	629242252.64
1129701790	Capacitor	C293-C298,C341,C414-C416,C419-C420,C423,C424,C427,C428,C431-C432,C589	Bellcore Issue 6	Level I		0.001589	19.00	.1553	0.030195	629242252.64
1129701790	Capacitor	C612,C637,C650,C652,C673	Bellcore Issue 6	Level I		0.001589	5.00	.0409	0.007946	629242252.64
1121722780	Capacitor	C112	Bellcore Issue 6	Level I		0.002526	1.00	.0130	0.002526	395921655.95
105A701053	Resistor	R222,R309,R399	Bellcore Issue 6	Level I		0.002232	3.00	.0344	0.006697	447960261.61
105A515033	Resistor	R261	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
14S4871203	Integrated Circuit	U24	Bellcore Issue 6	Level I	14.10	0.083060	1.00	.4272	0.083060	12039468.87
14S4871203	Integrated Circuit	U31	Bellcore Issue 6	Level I	15.30	0.088585	1.00	.4556	0.088585	11288615.25
1651203291	Connection	U28	Bellcore Issue 6	Level I		0.017460	1.00	.0898	0.017460	57274867.59
14S4653700	Integrated Circuit	U30	Bellcore Issue 6	Level I	13.70	0.146683	1.00	.7545	0.146683	6817422.03
1315441012	Semiconductor	Q31,Q52,Q55	Bellcore Issue 6	Level I		0.077789	3.00	1.2003	0.233367	12855269.30
1059702261	Resistor	R10,R171,R286,R349,R453,R484,-R485,R486,R504,R507,R510,R584-R592,R713	Bellcore Issue 6	Level I		0.002232	14.00	.1608	0.031253	447960261.61
1059702261	Resistor	R715,R717,R720	Bellcore Issue 6	Level I		0.002232	3.00	.0344	0.006697	447960261.61
105A701623	Resistor	R329	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
105A501633	Resistor	R466,R467	Bellcore Issue 6	Level I		0.002232	2.00	.0230	0.004465	447960261.61
105A512103	Resistor	R537,R538,R609	Bellcore Issue 6	Level I		0.002232	3.00	.0344	0.006697	447960261.61
105A747003	Resistor	R552,R580-R582,R656	Bellcore Issue 6	Level I		0.002232	5.00	.0574	0.011162	447960261.61
105A706209	Resistor	R583,R586,R587,R593,R595,R598-R599,R600,R604,R605,R607,R616-R617	Bellcore Issue 6	Level I		0.002232	13.00	.1493	0.029020	447960261.61
105A720033	Resistor	R705	Bellcore Issue 6	Level I		0.002232	1.00	.0115	0.002232	447960261.61
105A556223	Resistor	R779,R780	Bellcore Issue 6	Level I		0.002232	2.00	.0230	0.004465	447960261.61
14S3088000	Integrated Circuit	U2	Bellcore Issue 6	Level I	17.50	0.188782	1.00	.9710	0.188782	5297125.05
14S5A12505	Integrated Circuit	U34	Bellcore Issue 6	Level I		0.055983	1.00	.2880	0.055983	17862712.49
1315442910	Semiconductor	Q28	Bellcore Issue 6	Level I		0.077789	1.00	.4001	0.077789	12855269.30
1121701050	Capacitor	C409-C411,C602	Bellcore Issue 6	Level I		0.002526	4.00	.0520	0.010103	395921655.95

AAEON Reliability Prediction Report

Part Number 9697900002
Reference Des
Date 08. 2, 2005
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 24.20



Description Top-level assembly
File Name EMB-900M-A02.RPJ
Time 11:37 上午
Failure Rate 19.441732
MTBF 51,436

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1121610060	Capacitor	C517,C519,C521,C593	Bellcore Issue 6	Level I		0.002526	4.00	.0520	0.010103	395921655.95
1214309003	Inductor	CH1-CH6	Bellcore Issue 6	Level I		0.002232	6.00	.0689	0.013394	447960261.61
1121701080	Capacitor	C1,C185,C19,C215,C219,C221,C2-22,C224,C225,C233,C234,C235,C2-36,C242	Bellcore Issue 6	Level I		0.002526	14.00	.1819	0.035361	395921655.95
1121701080	Capacitor	C279-C286,C3,C301,C388,C389,C-394-C396,C43-C50,C533,C537-C5-39,C553,C57	Bellcore Issue 6	Level I		0.002526	29.00	.3768	0.073247	395921655.95
1121701080	Capacitor	C588,C591,C599,C6,C60,C609,C6-13,C614,C64,C654,C694,C696,C80	Bellcore Issue 6	Level I		0.002526	13.00	.1689	0.032835	395921655.95
1121733780	Capacitor	C4,C7	Bellcore Issue 6	Level I		0.002526	2.00	.0260	0.005052	395921655.95
1129710390	Capacitor	C14,C15,C228,C386,C387,C397,C-399,C40,C401,C403,C405,C407,C4-18,C421	Bellcore Issue 6	Level I		0.001055	14.00	.0759	0.014766	948153417.43
1129710390	Capacitor	C422,C425,C426,C429,C430,C433-436,C437,C441,C442,C449,C450-453,C454	Bellcore Issue 6	Level I		0.001055	14.00	.0759	0.014766	948153417.43
1129710390	Capacitor	C455,C459,C460,C463,C464,C468-471,C473,C478,C480,C482,C484-486,C488	Bellcore Issue 6	Level I		0.001055	14.00	.0759	0.014766	948153417.43
1129710390	Capacitor	C63,C718	Bellcore Issue 6	Level I		0.001055	2.00	.0108	0.002109	948153417.43
1129710090	Capacitor	C238,C340,C51,C53,C642,C644	Bellcore Issue 6	Level I		0.001055	6.00	.0325	0.006328	948153417.43
1129610050	Capacitor	C157,C160,C172,C177,C83-C88	Bellcore Issue 6	Level I		0.005999	10.00	.3086	0.059993	166686742.80
1124522180	Capacitor	C119,C135,C610	Bellcore Issue 6	Level I		0.001055	3.00	.0163	0.003164	948153417.43
14S6341602	Integrated Circuit	U44	Bellcore Issue 6	Level I		0.052992	1.00	.2726	0.052992	18870666.93
14S4730701	Integrated Circuit	U17	Bellcore Issue 6	Level I	19.20	0.210926	1.00	1.0849	0.210926	4740997.72