

# HSB-835P Reliability Prediction Report (MTBF)

Report NO : 05I070007

**05-27-2005**

Issue Date

**Wenyuan Yang**

Manager

**Jessica Chou**

Test Engineer

## Reliability Prediction (MTBF)

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**I . Model Name:** HSB-835P (Half-Size PCI CPU card.Pentium 4.VGA.1 Gbe LAN.7 USB.CF.AC97.SATA.ATX)

**II . Prediction Date:** May 27, 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: 25.4 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.

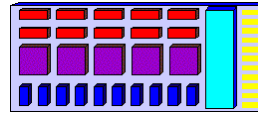
### **VIII. Prediction Result:**

- Failure Rate: 10.613587 ppm
- MTBF: 94,219 Hours

### **IX. Prediction Table**

### AAEON Reliability Prediction Report

**Part Number** 9697835P04  
**Reference Des**  
**Date** 05. 27, 2005  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temperature** 25.40

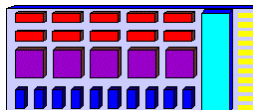


**Description** Top-level assembly  
**File Name** 9697835P04.RPJ  
**Time** 5:41 下午  
**Failure Rate** 10.613587  
**MTBF** 94,219

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
HSB-838P	9697835P04	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	10.613587	94,219

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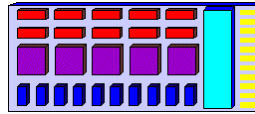


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**File Name** 9697835P04.RPJ  
**Time** 5:41 下午  
**Failure Rate** 10.613587  
**MTBF** 94,219

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1654804101	Connection	USB3-USB5	Bellcore Issue 6	Level I		0.002324	3.00	.0657	0.006972	430313544.40
1654515308	Connection	VGA1	Bellcore Issue 6	Level I		0.008715	1.00	.0821	0.008715	114750278.51
1231232720	Inductor	Y1	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
1653900035	Connection	CFD1	Bellcore Issue 6	Level I		0.001162	1.00	.0109	0.001162	860627088.80
1653002100	Connection	CN2	Bellcore Issue 6	Level I		0.001162	1.00	.0109	0.001162	860627088.80
1653005205	Connection	CN3	Bellcore Issue 6	Level I		0.005810	1.00	.0547	0.005810	172125417.76
1655005021	Connection	CN5	Bellcore Issue 6	Level I		0.002905	1.00	.0274	0.002905	344250835.52
1119612291	Capacitor	C2,C3,C58	Bellcore Issue 6	Level I		0.076927	3.00	2.1744	0.230782	12999289.51
1119647191	Capacitor	C7	Bellcore Issue 6	Level I		0.048292	1.00	.4550	0.048292	20707474.87
1169656130	Capacitor	C54-C57	Bellcore Issue 6	Level I		0.020772	4.00	.7828	0.083086	48142610.31
1651592490	Connection	DIMM1,DIMM2	Bellcore Issue 6	Level I		0.106899	2.00	2.0144	0.213798	9354642.27
1655003010	Connection	FAN1	Bellcore Issue 6	Level I		0.001743	1.00	.0164	0.001743	573751392.53
1653004200	Connection	FP1,FP2	Bellcore Issue 6	Level I		0.004648	2.00	.0876	0.009296	215156772.20
1653220208	Connection	IDE1	Bellcore Issue 6	Level I		0.023239	1.00	.2190	0.023239	43031354.44
1653006101	Connection	IR1	Bellcore Issue 6	Level I		0.003486	1.00	.0328	0.003486	286875696.27
1653002101	Connection	JP1	Bellcore Issue 6	Level I		0.001162	1.00	.0109	0.001162	860627088.80
1653213203	Connection	LPT1	Bellcore Issue 6	Level I		0.015105	1.00	.1423	0.015105	66202083.75
1653005201	Connection	USB1,USB2	Bellcore Issue 6	Level I		0.005810	2.00	.1095	0.011619	172125417.76
14S6200400	Integrated Circuit	U5	Bellcore Issue 6	Level I	17.10	0.727567	1.00	6.8551	0.727567	1374443.60
1655404020	Connection	ATX1	Bellcore Issue 6	Level I		0.002324	1.00	.0219	0.002324	430313544.40
1750119013	Miscellaneous	BT1	Bellcore Issue 6	Level I		0.900000	1.00	8.4797	0.900000	1111111.11
1655003022	Connection	CN1	Bellcore Issue 6	Level I		0.001743	1.00	.0164	0.001743	573751392.53
1654606200	Connection	CN4	Bellcore Issue 6	Level I		0.023239	1.00	.2190	0.023239	43031354.44
1653205203	Connection	COM1,COM2	Bellcore Issue 6	Level I		0.005810	2.00	.1095	0.011619	172125417.76
1111610292	Capacitor	C126,C127,C38	Bellcore Issue 6	Level I		0.046361	3.00	1.3104	0.139083	21569812.29
1111610196	Capacitor	C62	Bellcore Issue 6	Level I		0.027817	1.00	.2621	0.027817	35949687.15
1653217205	Connection	FDD1	Bellcore Issue 6	Level I		0.019753	1.00	.1861	0.019753	50625122.87
1654907000	Connection	SATA1,SATA2	Bellcore Issue 6	Level I		0.004067	2.00	.0766	0.008134	245893453.94
1652510201	Connection	LAN1	Bellcore Issue 6	Level I		0.005810	1.00	.0547	0.005810	172125417.76
1124410080	Capacitor	C128-C130	Bellcore Issue 6	Level I		0.001063	3.00	.0300	0.003189	940740803.88
105A701033	Resistor	R10,R196,R596,R306	Bellcore Issue 6	Level I		0.002286	4.00	.0861	0.009142	437535796.67

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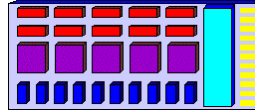


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**File Name** 9697835P04.RPJ  
**Time** 5:41 下午  
**Failure Rate** 10.613587  
**MTBF** 94,219

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A707509	Resistor	R21,R22,R72,R77,R84	Bellcore Issue 6	Level I		0.002286	5.00	.1077	0.011428	437535796.67
105A701039	Resistor	R100,R102,R103,R124,R128,R134-,R135,R150,R151,R173,R178,R179-,R27,R284	Bellcore Issue 6	Level I		0.002286	14.00	.3015	0.031997	437535796.67
105A701039	Resistor	R303,R51,R53,R74,R78,R85,R89,-R91,R95,R99	Bellcore Issue 6	Level I		0.002286	10.00	.2153	0.022855	437535796.67
105A700139	Resistor	R101,R132,R133,R154,R155,R283-,R294,R295,R35,R43,R44,R50,R52-,R61,R96-R98	Bellcore Issue 6	Level I		0.002286	17.00	.3661	0.038854	437535796.67
105A502833	Resistor	R39	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A706209	Resistor	R113,R114,R55,R59,R62,R63,R68-,R71,R76,R80-R82,R86,R87,R90,R-92	Bellcore Issue 6	Level I		0.002286	18.00	.3876	0.041139	437535796.67
1752311000	Miscellaneous	P1,P2	Bellcore Issue 6	Level I		0.030000	2.00	.5653	0.060000	33333333.33
14S4362702	Integrated Circuit	U24	Bellcore Issue 6	Level I	25.60	0.160276	1.00	1.5101	0.160276	6239240.09
1121501680	Capacitor	C64-C66,C68	Bellcore Issue 6	Level I		0.002546	4.00	.0959	0.010183	392826361.27
14S4286500	Integrated Circuit	U13	Bellcore Issue 6	Level I	12.90	0.083060	1.00	.7826	0.083060	12039471.34
14S4280107	Integrated Circuit	U11	Bellcore Issue 6	Level I	35.50	0.258430	1.00	2.4349	0.258430	3869526.60
14S2200900	Integrated Circuit	U12	Bellcore Issue 6	Level I		0.061126	1.00	.5759	0.061126	16359526.04
14S6334605	Integrated Circuit	U14	Bellcore Issue 6	Level I		0.031505	1.00	.2968	0.031505	31740600.08
14S4254701	Integrated Circuit	U15	Bellcore Issue 6	Level I		0.040229	1.00	.3790	0.040229	24857399.53
1304101340	Semiconductor	D1	Bellcore Issue 6	Level I		0.005058	1.00	.0477	0.005058	197707633.75
1300414844	Semiconductor	D3,D4	Bellcore Issue 6	Level I		0.024157	2.00	.4552	0.048313	41396339.36
105A708229	Resistor	R104,R108,R109,R119,R120,R187-,R190,R286,R287,R79	Bellcore Issue 6	Level I		0.002286	12.00	.2584	0.027426	437535796.67
105A703323	Resistor	R110,R121,R130	Bellcore Issue 6	Level I		0.002286	3.00	.0646	0.006857	437535796.67
105A505103	Resistor	R116,R228,R266	Bellcore Issue 6	Level I		0.002286	3.00	.0646	0.006857	437535796.67
105A701009	Resistor	R136,R137,R142,R143,R175,R180-,R181,R185	Bellcore Issue 6	Level I		0.002286	8.00	.1723	0.018284	437535796.67
105A549969	Resistor	R107,R118,R122,R126,R127,R129-,R131,R138-R140,R144,R145,R153-,R161	Bellcore Issue 6	Level I		0.002286	14.00	.3015	0.031997	437535796.67
105A538323	Resistor	R157	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A700009	Resistor	R148,R149,R177,R299	Bellcore Issue 6	Level I		0.002286	4.00	.0861	0.009142	437535796.67
105A515033	Resistor	R182	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A747003	Resistor	R195	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67

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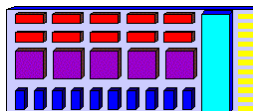


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**Failure Rate** 10.613587  
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121110010F	Inductor	L23	Bellcore Issue 6	Level I		0.086850	1.00	.8183	0.086850	11514099.91
1211104760	Inductor	L26,L27	Bellcore Issue 6	Level I		0.086850	2.00	1.6366	0.173700	11514099.91
1211110080	Inductor	L29,L30	Bellcore Issue 6	Level I		0.086850	2.00	1.6366	0.173700	11514099.91
121110010R	Inductor	L10,L12	Bellcore Issue 6	Level I		0.086850	2.00	1.6366	0.173700	11514099.91
121110010R	Inductor	L11	Bellcore Issue 6	Level I	18.60	0.122285	1.00	1.1522	0.122285	8177649.63
1122601680	Capacitor	M147-M151,M155-M171,M173,M69	Bellcore Issue 6	Level I		0.001602	24.00	.3622	0.038442	624322869.81
1129701790	Capacitor	N1,N10,N12,N13,N15-N17,N19-N39-N2-N4,N41-N61,N5-N9	Bellcore Issue 6	Level I		0.001602	57.00	.8602	0.091299	624322869.81
121110010S	Inductor	L14	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
1314917312	Integrated Circuit	U21	Bellcore Issue 6	Level I		0.061126	1.00	.5759	0.061126	16359526.04
1315970110	Semiconductor	U22,U23,U25,U26	Bellcore Issue 6	Level I		0.161045	4.00	6.0694	0.644179	6209450.90
1314331011	Integrated Circuit	U27	Bellcore Issue 6	Level I		0.061126	1.00	.5759	0.061126	16359526.04
14S9660100	Integrated Circuit	U28-U30	Bellcore Issue 6	Level I		0.061126	3.00	1.7278	0.183379	16359526.04
14S2303700	Integrated Circuit	U32,U33	Bellcore Issue 6	Level I		0.061126	2.00	1.1519	0.122253	16359526.04
1231314350	Miscellaneous	Y3	Bellcore Issue 6	Level I		0.150000	1.00	1.4133	0.150000	6666666.67
105A530163	Resistor	R250	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A566503	Resistor	R249	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A705123	Resistor	R272,R273	Bellcore Issue 6	Level I		0.002286	2.00	.0431	0.004571	437535796.67
1311006910	Semiconductor	Q19,Q20	Bellcore Issue 6	Level I		0.024157	2.00	.4552	0.048313	41396339.36
1129747650	Capacitor	CA1,CA10,CA13-CA23,CA2-CA7	Bellcore Issue 6	Level I		0.002729	19.00	.4886	0.051859	366378757.23
1651608990	Connection	CPU1	Bellcore Issue 6	Level I		0.001162	1.00	.0109	0.001162	860627088.80
1174518180	Capacitor	CP1-CP4	Bellcore Issue 6	Level I		0.001063	4.00	.0401	0.004252	940740803.88
1124418090	Capacitor	C26,C27,C34,C35,C5,C6	Bellcore Issue 6	Level I		0.001063	6.00	.0601	0.006378	940740803.88
1129710090	Capacitor	C10-C16,C42,C43,C46-C48,C50,C-51,C59,C60,C63,C9	Bellcore Issue 6	Level I		0.001063	18.00	.1803	0.019134	940740803.88
1129710390	Capacitor	C29,C30,C32,C33,C36,C37,C39,C-49	Bellcore Issue 6	Level I		0.001063	8.00	.0801	0.008504	940740803.88
1121701081	Capacitor	C100,C105,C107,C110,C111,C120-C123,C31,C40,C53,C69,C70,C76,-C78,C80,C81	Bellcore Issue 6	Level I		0.002546	16.00	.3838	0.040730	392826361.27
1121701081	Capacitor	C83,C78,C90,C93-C95,C97,C98	Bellcore Issue 6	Level I		0.002546	8.00	.1919	0.020365	392826361.27
1189633181	Capacitor	C44,C52,C67,C71	Bellcore Issue 6	Level I		0.004972	4.00	.1874	0.019886	201142032.82
1121722780	Capacitor	C79,C86,C88	Bellcore Issue 6	Level I		0.002546	3.00	.0720	0.007637	392826361.27

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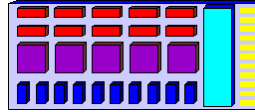


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14S5A23200	Integrated Circuit	U20	Bellcore Issue 6	Level I		0.061126	1.00	.5759	0.061126	16359526.04
11E2547690	Capacitor	C104,C108,C109,C112,C113	Bellcore Issue 6	Level I		0.001602	5.00	.0755	0.008009	624322869.81
1124522281	Capacitor	C121,C124	Bellcore Issue 6	Level I		0.001063	2.00	.0200	0.002126	940740803.88
1301005440	Semiconductor	DD1,DD3	Bellcore Issue 6	Level I		0.024157	2.00	.4552	0.048313	41396339.36
14S5A01400	Integrated Circuit	U1,U9	Bellcore Issue 6	Level I		0.061126	2.00	1.1519	0.122253	16359526.04
14S5A12505	Integrated Circuit	U3	Bellcore Issue 6	Level I		0.061126	1.00	.5759	0.061126	16359526.04
105A700133	Resistor	R197,R202-R205,R226,R288,R290-R293,R298	Bellcore Issue 6	Level I		0.002286	10.00	.2153	0.022855	437535796.67
105A720003	Resistor	R198,R291	Bellcore Issue 6	Level I		0.002286	2.00	.0431	0.004571	437535796.67
105A533003	Resistor	R200	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A702203	Resistor	R201,R309,R310,R311	Bellcore Issue 6	Level I		0.002286	4.00	.0861	0.009142	437535796.67
105A704733	Resistor	R206,R207	Bellcore Issue 6	Level I		0.002286	2.00	.0431	0.004571	437535796.67
105A756033	Resistor	R210,R211,R213,R219	Bellcore Issue 6	Level I		0.002286	4.00	.0861	0.009142	437535796.67
105A530123	Resistor	R217,R220,R244,R262	Bellcore Issue 6	Level I		0.002286	4.00	.0861	0.009142	437535796.67
105A542263	Resistor	R222,R223,R238,R243	Bellcore Issue 6	Level I		0.002286	4.00	.0861	0.009142	437535796.67
105A702703	Resistor	R227	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A703903	Resistor	R230	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A552363	Resistor	R231,R259	Bellcore Issue 6	Level I		0.002286	2.00	.0431	0.004571	437535796.67
105A510203	Resistor	R233	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A516903	Resistor	R235	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A524913	Resistor	R236,R237	Bellcore Issue 6	Level I		0.002286	2.00	.0431	0.004571	437535796.67
105A527423	Resistor	R245	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A549913	Resistor	R247	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A513703	Resistor	R252	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A543263	Resistor	R254	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A510003	Resistor	R256	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A514703	Resistor	R258,R264	Bellcore Issue 6	Level I		0.002286	2.00	.0431	0.004571	437535796.67
105A511303	Resistor	R260,R265	Bellcore Issue 6	Level I		0.002286	2.00	.0431	0.004571	437535796.67
105A7104723	Resistor	R268,R269,R271,R277,R304,R308	Bellcore Issue 6	Level I		0.002286	6.00	.1292	0.013713	437535796.67
105A524903	Resistor	R278	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A515003	Resistor	R279	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67

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**Date** 05. 27, 2005  
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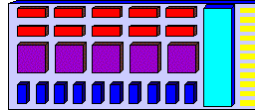
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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A733003	Resistor	R305	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
1214309002	Inductor	L3-L9	Bellcore Issue 6	Level I		0.002286	7.00	.1507	0.015999	437535796.67
1212308054	Inductor	L15-L19,L34	Bellcore Issue 6	Level I		0.002286	6.00	.1292	0.013713	437535796.67
1315041410	Semiconductor	Q13,Q15,Q17,Q25,Q4-Q6	Bellcore Issue 6	Level I		0.000000	7.00	.0000	0.000000	.00
1315041410	Semiconductor	Q23	Bellcore Issue 6	Level I	32.30	0.000000	1.00	.0000	0.000000	.00
1315700211	Semiconductor	Q10,Q11,Q18	Bellcore Issue 6	Level I		0.080522	3.00	2.2760	0.241567	12418901.81
1315041210	Semiconductor	Q24	Bellcore Issue 6	Level I		0.000000	1.00	.0000	0.000000	.00
1315041210	Semiconductor	Q22	Bellcore Issue 6	Level I	23.60	0.000000	1.00	.0000	0.000000	.00
1315041210	Semiconductor	Q12	Bellcore Issue 6	Level I	61.10	0.000000	1.00	.0000	0.000000	.00
1315041210	Semiconductor	Q14	Bellcore Issue 6	Level I	71.70	0.000000	1.00	.0000	0.000000	.00
1315041210	Semiconductor	Q16	Bellcore Issue 6	Level I	73.70	0.000000	1.00	.0000	0.000000	.00
1540756081	Resistor	RN1,RN10,RN11,RN13-RN15,RN17-RN18,RN2,RN20-RN30,RN3,RN33-RN35,RN37	Bellcore Issue 6	Level I		0.006361	25.00	1.4983	0.159028	157205134.20
1540756081	Resistor	RN38,RN39,RN4,RN41,RN42,RN44-RN48,RN5,RN6,RN9	Bellcore Issue 6	Level I		0.006361	13.00	.7791	0.082695	157205134.20
1540747083	Resistor	RN12,RN16,RN19,RN31,RN32,RN36,RN40,RN43,RN7,RN8	Bellcore Issue 6	Level I		0.006361	10.00	.5993	0.063611	157205134.20
1540782282	Resistor	RN49-RN52,RN57,RN58,RN59	Bellcore Issue 6	Level I		0.006361	7.00	.4195	0.044528	157205134.20
1540747285	Resistor	RN56	Bellcore Issue 6	Level I		0.006361	1.00	.0599	0.006361	157205134.20
105A704709	Resistor	R1,R13-R20,R2-R8	Bellcore Issue 6	Level I		0.002286	16.00	.3445	0.036568	437535796.67
105A733009	Resistor	R105,R147,R25,R36,R73,R9	Bellcore Issue 6	Level I		0.002286	6.00	.1292	0.013713	437535796.67
105A704729	Resistor	R11,R12,R125,R172,R176,R186,R28,R29,R31,R45,R66	Bellcore Issue 6	Level I		0.002286	11.00	.2369	0.025141	437535796.67
105A501039	Resistor	R23,R24,R41,R42,R46-R48	Bellcore Issue 6	Level I		0.002286	7.00	.1507	0.015999	437535796.67
105A702229	Resistor	R163,R164,R26,R49	Bellcore Issue 6	Level I		0.002286	4.00	.0861	0.009142	437535796.67
105A710053	Resistor	R214,R224,R30	Bellcore Issue 6	Level I		0.013713	3.00	.3876	0.041139	72922632.78
105A505633	Resistor	R37	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A523233	Resistor	R38	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A702209	Resistor	R141,R152,R159,R160,R167-R170-R174,R184,R191,R280,R40	Bellcore Issue 6	Level I		0.002286	13.00	.2799	0.029712	437535796.67
105A515009	Resistor	R56-R58	Bellcore Issue 6	Level I		0.002286	3.00	.0646	0.006857	437535796.67
105A720009	Resistor	R64,R65,R83,R88,R93	Bellcore Issue 6	Level I		0.002286	5.00	.1077	0.011428	437535796.67
105A747033	Resistor	R208,R209,R212,R218	Bellcore Issue 6	Level I		0.002286	4.00	.0861	0.009142	437535796.67



**AAEON Reliability Prediction Report**

**Part Number** 9697835P04  
**Reference Des**  
**Date** 05. 27, 2005  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temperature** 25.40



**Description** Top-level assembly  
**File Name** 9697835P04.RPJ  
**Time** 5:41 下午  
**Failure Rate** 10.613587  
**MTBF** 94,219

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A501033	Resistor	R216,R221,R239,R261	Bellcore Issue 6	Level I		0.002286	4.00	.0861	0.009142	437535796.67
105A524963	Resistor	R225	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A768003	Resistor	R229	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A530103	Resistor	R232	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A502003	Resistor	R234	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A500133	Resistor	R242	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A523723	Resistor	R246	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A564963	Resistor	R253	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A539263	Resistor	R255	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A522603	Resistor	R257,R263	Bellcore Issue 6	Level I		0.002286	2.00	.0431	0.004571	437535796.67
105A547503	Resistor	R267	Bellcore Issue 6	Level I		0.002286	1.00	.0215	0.002286	437535796.67
105A700003	Resistor	R300,R301	Bellcore Issue 6	Level I		0.002286	2.00	.0431	0.004571	437535796.67
105A702733	Resistor	R289,R292	Bellcore Issue 6	Level I		0.002286	2.00	.0431	0.004571	437535796.67
1212306030	Inductor	L1,L13,L2,L35	Bellcore Issue 6	Level I		0.002286	4.00	.0861	0.009142	437535796.67
121230603D	Inductor	L20-L22,L24,L25	Bellcore Issue 6	Level I		0.002286	5.00	.1077	0.011428	437535796.67
1211108270	Inductor	L28	Bellcore Issue 6	Level I		0.086850	1.00	.8183	0.086850	11514099.91
121230603C	Inductor	L31,L32,L33,L36	Bellcore Issue 6	Level I		0.002286	4.00	.0861	0.009142	437535796.67
1129701690	Capacitor	M1,M10,M100-M138,M11-M14,M14-0-M144,M146,M15,M152-M154,M16-M36,M2,M3	Bellcore Issue 6	Level I		0.002546	78.00	1.8708	0.198561	392826361.27
1129701690	Capacitor	M38-M62,M4-M6,M60-M62,M64,M6-6-M68,M70-M99,M8,M9	Bellcore Issue 6	Level I		0.002546	64.00	1.5350	0.162922	392826361.27
1122501780	Capacitor	N18,N62-N76	Bellcore Issue 6	Level I		0.002546	16.00	.3838	0.040730	392826361.27
14S4655600	Integrated Circuit	U31	Bellcore Issue 6	Level I	38.60	0.739975	1.00	6.9720	0.739975	1351396.14
1231325050	Miscellaneous	Y2	Bellcore Issue 6	Level I		0.150000	1.00	1.4133	0.150000	6666666.67
1310390411	Semiconductor	Q1,Q2,Q26,Q27,Q8,Q9	Bellcore Issue 6	Level I		0.024157	6.00	1.3656	0.144940	41396339.36
14S5A12503	Integrated Circuit	U2	Bellcore Issue 6	Level I		0.061126	1.00	.5759	0.061126	16359526.04
14S4048501	Integrated Circuit	U4,U6	Bellcore Issue 6	Level I		0.061126	2.00	1.1519	0.122253	16359526.04
1651203291	Connection	U5	Bellcore Issue 6	Level I		0.018591	1.00	.1752	0.018591	53789193.05
14S5900700	Integrated Circuit	U8	Bellcore Issue 6	Level I	21.20	0.163773	1.00	1.5431	0.163773	6106010.32
14S3260700	Integrated Circuit	U16	Bellcore Issue 6	Level I	7.50	0.104243	1.00	.9822	0.104243	9592950.13
14S3115000	Integrated Circuit	U17	Bellcore Issue 6	Level I	25.10	0.331009	1.00	3.1187	0.331009	3021064.16

