



**AAEON Technology INC.**  
ISO-9001/ISO-14001 Certified  
Industrial Automation PCs

# **PCM-6890B**

## **Reliability Prediction Report**

### **(MTBF)**

**Release Date: JUL.7, 2000**

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**Issue Stamp**

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**QA Manager**

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**QE Manager**

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**Test Engineer**

# Reliability Prediction (MTBF)

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**I . Model Name:PCM-6890B**

**II . Description: Compact Board with LCD, Ethernet, Audio, & 4 COMs**

**III . Prediction Date: JUL.7, 2000**

**IV. Prediction Site: AAEON QE Dept.**

**V . Predicted by : Milo Wang**

**VI.Equipment: Relx Ver.7.0 Visual Reliability Software**

**VII. Simulation Environment:**

- **Temperature: 25 degrees C**
- **Standard: Telcordia (Bellcore) Standard**

**VIII. Prediction Result:**

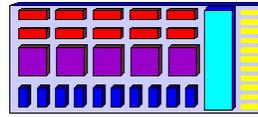
- **Failure Rate: 12.433412 ppm**
- **MTBF: 80,428. Hours**

**IX.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.**

### AAEON Reliability Prediction Report

**Part Number** 9697689040  
**Reference Des**  
**Date** 07. 7, 2000  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temperature** 25.00

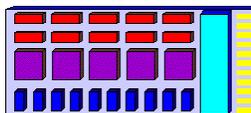


**Description** Top-level assembly  
**File Name** 6890b0.1.RPJ  
**Time** 5:07 PM  
**Failure Rate** 12.433412  
**MTBF** 80,428

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
PCM-6890B	9697689040	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	12.433412	80,428

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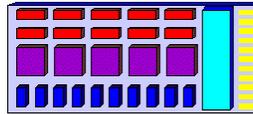


**Description** Top-level assembly  
**File Name** 6890b0.1.RPJ  
**Time** 5:07 PM  
**Failure Rate** 12.433412  
**MTBF** 80,428

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A702233	Resistor	R311	Bellcore Issue 6	Level I		0.002268	1.00	.0182	0.002268	440974090.03
105A700133	Resistor	R137,R144,R149,R151,R156,R196- R202-203,R216,R221,R244-248,R- 253,R37,R59,R62,R88	Bellcore Issue 6	Level I		0.002268	20.00	.3648	0.045354	440974090.03
105A702223	Resistor	R107,R19,R288,R96	Bellcore Issue 6	Level I		0.002268	4.00	.0730	0.009071	440974090.03
105A702223	Resistor	R307	Bellcore Issue 6	Level I		0.002268	1.00	.0182	0.002268	440974090.03
1213106008	Inductor	LN1	Bellcore Issue 6	Level I		0.002268	4.00	.0730	0.009071	440974090.03
1124510180	Capacitor	C73,C83,C85	Bellcore Issue 6	Level I		0.001060	3.00	.0256	0.003181	943198589.05
1059556001	Resistor	R195	Bellcore Issue 6	Level I		0.002268	1.00	.0182	0.002268	440974090.03
1059705601	Resistor	R74	Bellcore Issue 6	Level I		0.002268	1.00	.0182	0.002268	440974090.03
105A501033	Resistor	R104,R218-219,R222,R229,R234,- R250-251,R281,R293-295,R312-3- 13,R38	Bellcore Issue 6	Level I		0.002268	15.00	.2736	0.034016	440974090.03
105A547033	Resistor	R46,R53,R61	Bellcore Issue 6	Level I		0.002268	3.00	.0547	0.006803	440974090.03
105A590923	Resistor	R233	Bellcore Issue 6	Level I		0.002268	1.00	.0182	0.002268	440974090.03
105A700003	Resistor	R141,R147,R212,R231,R252,R254- R258,R272,R274,R277,R280,R282- R284,R292,R296,R314,R56-57,R63	Bellcore Issue 6	Level I		0.002268	19.00	.3465	0.043086	440974090.03
105A701003	Resistor	R11-21,R23-29,R7-9,R155,R223,R- 34,R58	Bellcore Issue 6	Level I		0.002268	19.00	.3465	0.043086	440974090.03
105A702053	Resistor	R70	Bellcore Issue 6	Level I		0.013606	1.00	.1094	0.013606	73495681.67
105A703303	Resistor	R101,R103,R188,R193,R316,R36,- R41,R54,R72,R75	Bellcore Issue 6	Level I		0.002268	10.00	.1824	0.022677	440974090.03
105A704703	Resistor	R22	Bellcore Issue 6	Level I		0.002268	1.00	.0182	0.002268	440974090.03
105A704723	Resistor	R106,R157,R162,R192,R217,R228- R235,R260,R266,R55,R64,R67-69- R71,R91,R98-99	Bellcore Issue 6	Level I		0.002268	18.00	.3283	0.040819	440974090.03
105A705623	Resistor	R158,R164-165,R168,R170,R198,- R204,R215,R39	Bellcore Issue 6	Level I		0.002268	9.00	.1641	0.020409	440974090.03
105A707503	Resistor	R230,R239,R242-243,R83,R89-90	Bellcore Issue 6	Level I		0.002268	7.00	.1277	0.015874	440974090.03
105A708223	Resistor	R113,R120-121,R160-161,R163,R- 166-167,R169,R171-174,R176,R18- 0-183,R185,R187,R189-191,R197,- R199-200,R205-211,R220,R3-4,R97	Bellcore Issue 6	Level I		0.002268	37.00	.6748	0.083905	440974090.03
105A7100003	Resistor	R105,R194,R213	Bellcore Issue 6	Level I		0.002268	3.00	.0547	0.006803	440974090.03
105A701533	Resistor	R133-134,R146,R154	Bellcore Issue 6	Level I		0.002268	4.00	.0730	0.009071	440974090.03

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**Temperature** 25.00

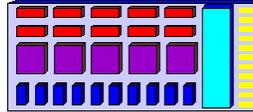


**Description** Top-level assembly  
**File Name** 6890b0.1.RPJ  
**Time** 5:07 PM  
**Failure Rate** 12.433412  
**MTBF** 80,428

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A701533	Resistor	R236,R238,R65	Bellcore Issue 6	Level I		0.002268	3.00	.0547	0.006803	440974090.03
105A733003	Resistor	R102,R126,R132,R135-136,R138--139,R142-143,R150,R152,R153,R-159,R175,R177-179,R227,R5,R73	Bellcore Issue 6	Level I		0.002268	20.00	.3648	0.045354	440974090.03
105A710053	Resistor	R87	Bellcore Issue 6	Level I		0.013606	1.00	.1094	0.013606	73495681.67
105A502833	Resistor	R232	Bellcore Issue 6	Level I		0.002268	1.00	.0182	0.002268	440974090.03
105A504763	Resistor	R30,R33	Bellcore Issue 6	Level I		0.002268	2.00	.0365	0.004535	440974090.03
105A507503	Resistor	R112,R116,R145	Bellcore Issue 6	Level I		0.002268	3.00	.0547	0.006803	440974090.03
105A5100003	Resistor	R109,R44,R50	Bellcore Issue 6	Level I		0.002268	3.00	.0547	0.006803	440974090.03
105A515003	Resistor	R110-111,R117,R276,R287	Bellcore Issue 6	Level I		0.002268	5.00	.0912	0.011339	440974090.03
105A521033	Resistor	R224	Bellcore Issue 6	Level I		0.002268	1.00	.0182	0.002268	440974090.03
105A560423	Resistor	R225-226	Bellcore Issue 6	Level I		0.002268	2.00	.0365	0.004535	440974090.03
105A511503	Resistor	R115,R257,R290	Bellcore Issue 6	Level I		0.002268	3.00	.0547	0.006803	440974090.03
105A518703	Resistor	R114,R258,R291	Bellcore Issue 6	Level I		0.002268	3.00	.0547	0.006803	440974090.03
105A700333	Resistor	R35	Bellcore Issue 6	Level I		0.002268	1.00	.0182	0.002268	440974090.03
105A702033	Resistor	R78-79	Bellcore Issue 6	Level I		0.002268	2.00	.0365	0.004535	440974090.03
105A503033	Resistor	R77,R80	Bellcore Issue 6	Level I		0.002268	2.00	.0365	0.004535	440974090.03
105A702723	Resistor	R100,R122-123,R127-128,R140,R-184,R186,R201,R255-256,R263	Bellcore Issue 6	Level I		0.002268	12.00	.2189	0.027212	440974090.03
105A705103	Resistor	R119,R31	Bellcore Issue 6	Level I		0.002268	2.00	.0365	0.004535	440974090.03
105A705603	Resistor	R118,R129,R280	Bellcore Issue 6	Level I		0.002268	3.00	.0547	0.006803	440974090.03
105A707523	Resistor	R32	Bellcore Issue 6	Level I		0.002268	1.00	.0182	0.002268	440974090.03
105A710033	Resistor	R108,R264-265,R95	Bellcore Issue 6	Level I		0.002268	4.00	.0730	0.009071	440974090.03
105A751033	Resistor	R60	Bellcore Issue 6	Level I		0.002268	1.00	.0182	0.002268	440974090.03
105A756033	Resistor	R43,R52	Bellcore Issue 6	Level I		0.002268	2.00	.0365	0.004535	440974090.03
105A768003	Resistor	R148	Bellcore Issue 6	Level I		0.002268	1.00	.0182	0.002268	440974090.03
1121702050	Capacitor	C84	Bellcore Issue 6	Level I		0.002539	1.00	.0204	0.002539	393852661.82
1122701680	Capacitor	C104-105,C111-112,C118-121,C1-23,C127-128,C81,C97,M1-13,M100--127,M130-M166,M16-19,M21,M-3-0,M36-99	Bellcore Issue 6	Level I		0.001598	160.00	2.0558	0.255610	625953979.55
1122722780	Capacitor	C100,C107,C109,C48,C50,C99	Bellcore Issue 6	Level I		0.001598	6.00	.0771	0.009585	625953979.55
1124410282	Capacitor	C72,C90	Bellcore Issue 6	Level I		0.001060	2.00	.0171	0.002120	943198589.05

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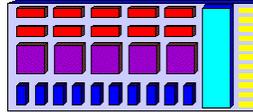


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**File Name** 6890b0.1.RPJ  
**Time** 5:07 PM  
**Failure Rate** 12.433412  
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1124410080	Capacitor	C114,C116,C12-18,C2,C61,C63-66-C82,C87	Bellcore Issue 6	Level I		0.001060	17.00	.1450	0.018024	943198589.05
1124415080	Capacitor	C26,C67-68	Bellcore Issue 6	Level I		0.001060	3.00	.0256	0.003181	943198589.05
1124420080	Capacitor	C51-52,C57-58,C62	Bellcore Issue 6	Level I		0.001060	5.00	.0426	0.005301	943198589.05
1124422080	Capacitor	C74-75	Bellcore Issue 6	Level I		0.001060	2.00	.0171	0.002120	943198589.05
1124522180	Capacitor	C126,C22	Bellcore Issue 6	Level I		0.001060	2.00	.0171	0.002120	943198589.05
1124447080	Capacitor	C101-102,C98	Bellcore Issue 6	Level I		0.001060	3.00	.0256	0.003181	943198589.05
1124547180	Capacitor	C129,C54,C78,C92-93,C95-96	Bellcore Issue 6	Level I		0.001060	7.00	.0597	0.007422	943198589.05
1124547280	Capacitor	C108,C110	Bellcore Issue 6	Level I		0.001060	2.00	.0171	0.002120	943198589.05
1124547280	Capacitor	C20	Bellcore Issue 6	Level I		0.001060	1.00	.0085	0.001060	943198589.05
1129701080	Capacitor	C11,C124-125,C130,C19,C3,C36,-C43,C6,C79,C84,01-20	Bellcore Issue 6	Level I		0.005466	31.00	1.3627	0.169434	182961702.19
1129747650	Capacitor	C113,C40,C56,P1-13	Bellcore Issue 6	Level I		0.005466	16.00	.7033	0.087450	182961702.19
1141640050	Capacitor	C103,C122,C131-132,C76-77,C80,-F1-8,F10-25,TC1	Bellcore Issue 6	Level I		0.002357	31.00	.5877	0.073069	424256814.77
1141633080	Capacitor	C32	Bellcore Issue 6	Level I		0.002357	1.00	.0190	0.002357	424256814.77
1142610060	Capacitor	C59-60	Bellcore Issue 6	Level I		0.001587	2.00	.0255	0.003174	630075050.70
1141647080	Capacitor	C106	Bellcore Issue 6	Level I		0.002357	1.00	.0190	0.002357	424256814.77
1149610180	Capacitor	CT1-2	Bellcore Issue 6	Level I		0.004535	2.00	.0730	0.009071	220487045.01
1149633190	Capacitor	C1,C23-24,C27-28	Bellcore Issue 6	Level I		0.004933	5.00	.1984	0.024664	202722669.92
1174510180	Capacitor	NC3-10	Bellcore Issue 6	Level I		0.005466	32.00	1.4067	0.174900	182961702.19
1174547080	Capacitor	NC1-2	Bellcore Issue 6	Level I		0.005466	8.00	.3517	0.043725	182961702.19
1211102200	Inductor	L5	Bellcore Issue 6	Level I		0.002268	1.00	.0182	0.002268	440974090.03
1212306031	Inductor	L25-33,L46-59	Bellcore Issue 6	Level I		0.002268	23.00	.4195	0.052157	440974090.03
1212308050	Inductor	L1,L4,L6,L8-11,L13,L15-16,L18-20,-L24,L34-43,L45	Bellcore Issue 6	Level I		0.002268	25.00	.4560	0.056693	440974090.03
1231332721	Miscellaneous	Y2,Y3	Bellcore Issue 6	Level I		0.150000	2.00	2.4129	0.300000	6666666.67
1233314351	Miscellaneous	X3	Bellcore Issue 6	Level I		0.150000	1.00	1.2064	0.150000	6666666.67
1233325051	Miscellaneous	X2	Bellcore Issue 6	Level I		0.150000	1.00	1.2064	0.150000	6666666.67
1300014040	Semiconductor	D2	Bellcore Issue 6	Level I		0.023881	1.00	.1921	0.023881	41874327.58
1300414840	Semiconductor	D1,D3,D6,D8	Bellcore Issue 6	Level I		0.023881	4.00	.7683	0.095524	41874327.58
1301005440	Semiconductor	D4,D10-11	Bellcore Issue 6	Level I		0.023881	3.00	.5762	0.071643	41874327.58
1302000340	Semiconductor	D5	Bellcore Issue 6	Level I		0.027212	1.00	.2189	0.027212	36747840.84

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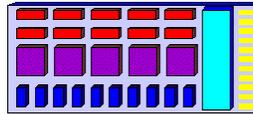


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**File Name** 6890b0.1.RPJ  
**Time** 5:07 PM  
**Failure Rate** 12.433412  
**MTBF** 80,428

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1301005442	Semiconductor	D9	Bellcore Issue 6	Level I		0.023881	1.00	.1921	0.023881	41874327.58
1304100540	Semiconductor	LED1	Bellcore Issue 6	Level I		0.004877	1.00	.0392	0.004877	205063180.81
1310390410	Semiconductor	Q7	Bellcore Issue 6	Level I		0.023881	1.00	.1921	0.023881	41874327.58
1314111711	Integrated Circuit	Q10	Bellcore Issue 6	Level I	13.00	0.147672	1.00	1.1877	0.147672	6771770.53
1314108312	Integrated Circuit	Q11	Bellcore Issue 6	Level I	15.00	0.168759	1.00	1.3573	0.168759	5925622.25
1314108411	Integrated Circuit	Q5	Bellcore Issue 6	Level I	17.00	0.192530	1.00	1.5485	0.192530	5193998.23
1314108513	Integrated Circuit	Q1	Bellcore Issue 6	Level I	15.00	0.168759	1.00	1.3573	0.168759	5925622.25
1315500311	Semiconductor	Q2-3	Bellcore Issue 6	Level I	21.00	0.139890	2.00	2.2502	0.279781	7148457.75
1315700210	Semiconductor	Q8-9,Q13	Bellcore Issue 6	Level I		0.079603	3.00	1.9207	0.238810	12562298.27
14S5207402	Integrated Circuit	U8	Bellcore Issue 6	Level I	15.00	0.126819	1.00	1.0200	0.126819	7885246.85
14S5500800	Integrated Circuit	U15	Bellcore Issue 6	Level I	15.00	0.124759	1.00	1.0034	0.124759	8015453.68
14S5900700	Integrated Circuit	U17,U35	Bellcore Issue 6	Level I	15.00	0.125285	1.00	1.0077	0.125285	7981782.34
14S1488000	Integrated Circuit	U19	Bellcore Issue 6	Level I	12.00	0.138049	1.00	1.1103	0.138049	7243806.82
14S3128420	Integrated Circuit	U28	Bellcore Issue 6	Level I	9.00	0.112485	1.00	.9047	0.112485	8890058.82
14S3175300	Integrated Circuit	U3	Bellcore Issue 6	Level I	14.00	0.157897	1.00	1.2699	0.157897	6333229.12
14S3000300	Integrated Circuit	U26	Bellcore Issue 6	Level I	11.00	0.128997	1.00	1.0375	0.128997	7752127.40
14S3924800	Integrated Circuit	U1	Bellcore Issue 6	Level I	15.00	0.168759	1.00	1.3573	0.168759	5925622.25
14S4021300	Integrated Circuit	U29-32	Bellcore Issue 6	Level I	12.00	0.138049	4.00	4.4412	0.552196	7243806.82
14S4048500	Integrated Circuit	U25,U27	Bellcore Issue 6	Level I	9.00	0.112485	2.00	1.8094	0.224970	8890058.82
14S4070600	Integrated Circuit	U33	Bellcore Issue 6	Level I	8.00	0.104969	1.00	.8443	0.104969	9526603.44
14S4237120	Integrated Circuit	U14	Bellcore Issue 6	Level I	18.00	0.106590	1.00	.8573	0.106590	9381758.86
14S4244300	Integrated Circuit	U2	Bellcore Issue 6	Level I	14.00	0.086245	1.00	.6937	0.086245	11594908.63
14S4378100	Integrated Circuit	U23	Bellcore Issue 6	Level I	9.00	0.112485	1.00	.9047	0.112485	8890058.82
14S4397702	Integrated Circuit	U22	Bellcore Issue 6	Level I	15.00	0.015527	1.00	.1249	0.015527	64403224.99
14S4255900	Integrated Circuit	U5	Bellcore Issue 6	Level I	23.00	0.137870	1.00	1.1089	0.137870	7253191.45
14S4866100	Integrated Circuit	U21	Bellcore Issue 6	Level I	15.00	0.090981	1.00	.7317	0.090981	10991353.05
14S4900000	Integrated Circuit	U13	Bellcore Issue 6	Level I	23.00	0.137870	1.00	1.1089	0.137870	7253191.45
14S5324500	Integrated Circuit	U20	Bellcore Issue 6	Level I	10.00	0.103929	1.00	.8359	0.103929	9621974.55
14S5801400	Integrated Circuit	U9,U12	Bellcore Issue 6	Level I	15.00	0.087724	2.00	1.4111	0.175447	11399442.81
14S5A15700	Integrated Circuit	U7	Bellcore Issue 6	Level I	15.00	0.088477	1.00	.7116	0.088477	11302316.55
14S6334610	Integrated Circuit	U6	Bellcore Issue 6	Level I	17.00	0.099232	1.00	.7981	0.099232	10077347.00

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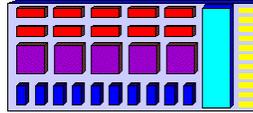


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**File Name** 6890b0.1.RPJ  
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**Failure Rate** 12.433412  
**MTBF** 80,428

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
14S8416800	Integrated Circuit	U11	Bellcore Issue 6	Level I	17.00	0.101144	1.00	.8135	0.101144	9886920.11
14S4382300	Integrated Circuit	U34	Bellcore Issue 6	Level I		0.059366	1.00	.4775	0.059366	16844654.92
1315344710	Integrated Circuit	U36	Bellcore Issue 6	Level I	11.00	0.128997	1.00	1.0375	0.128997	7752127.40
14S9972100	Integrated Circuit	U10	Bellcore Issue 6	Level I	20.00	0.233882	1.00	1.8811	0.233882	4275661.99
1540700080	Resistor	RN37	Bellcore Issue 6	Level I		0.006246	1.00	.0502	0.006246	160102772.00
1540701380	Resistor	RN32	Bellcore Issue 6	Level I		0.006246	1.00	.0502	0.006246	160102772.00
1540715380	Resistor	RN18	Bellcore Issue 6	Level I		0.006246	1.00	.0502	0.006246	160102772.00
1540722080	Resistor	RN21,RN25-26,RN28-29,RN31,RN-33,RN35	Bellcore Issue 6	Level I		0.006246	8.00	.4019	0.049968	160102772.00
1540727280	Resistor	RN1-2,RN11,RN16,RN23,RN27	Bellcore Issue 6	Level I		0.006246	6.00	.3014	0.037476	160102772.00
1540747282	Resistor	RN3-4,RN39	Bellcore Issue 6	Level I		0.006246	3.00	.1507	0.018738	160102772.00
1540756080	Resistor	RP1-28	Bellcore Issue 6	Level I		0.006246	28.00	1.4066	0.174888	160102772.00
1540782280	Resistor	RN10,RN12-15,RN17,RN19-20,RN-24,RN30,RN34,RN36,RN5-9	Bellcore Issue 6	Level I		0.006246	17.00	.8540	0.106182	160102772.00
1651203291	Connection	PLCC	Bellcore Issue 6	Level I		0.018207	1.00	.1464	0.018207	54923766.92
1600001203	Switching Device	SW1	Bellcore Issue 6	Level I		0.071121	1.00	.5720	0.071121	14060484.33
105A747003	Resistor	R214,R92-94	Bellcore Issue 6	Level I		0.002268	1.00	.0182	0.002268	440974090.03
1124510280	Capacitor	C25,C33,C60,C70-71	Bellcore Issue 6	Level I		0.001060	5.00	.0426	0.005301	943198589.05
1129610260	Capacitor	C94	Bellcore Issue 6	Level I		0.000712	1.00	.0057	0.000712	1403854412.74
105A511103	Resistor	R278-279	Bellcore Issue 6	Level I		0.002268	2.00	.0365	0.004535	440974090.03
14S1007200	Integrated Circuit	U37	Bellcore Issue 6	Level I		0.047416	1.00	.3814	0.047416	21089950.88
14S5A01400	Integrated Circuit	U38	Bellcore Issue 6	Level I		0.059366	1.00	.4775	0.059366	16844654.92
14S3193800	Integrated Circuit	U4	Bellcore Issue 6	Level I	28.00	0.176929	1.00	1.4230	0.176929	5651999.15
105A704733	Resistor	R305-306,R308-310	Bellcore Issue 6	Level I		0.002268	5.00	.0912	0.011339	440974090.03
1059700001	Inductor	L44	Bellcore Issue 6	Level I		0.002268	1.00	.0182	0.002268	440974090.03
105A706233	Resistor	R259	Bellcore Issue 6	Level I		0.002268	1.00	.0182	0.002268	440974090.03
105A554903	Resistor	R261	Bellcore Issue 6	Level I		0.002268	1.00	.0182	0.002268	440974090.03
105A561903	Resistor	R262	Bellcore Issue 6	Level I		0.002268	1.00	.0182	0.002268	440974090.03
1752311000	Miscellaneous	FS1-4	Bellcore Issue 6	Level I		0.030000	4.00	.9651	0.120000	33333333.33
105A512703	Resistor	R1-2,R42	Bellcore Issue 6	Level I		0.002268	3.00	.0547	0.006803	440974090.03
105A525563	Resistor	R45	Bellcore Issue 6	Level I		0.002268	1.00	.0182	0.002268	440974090.03
1314780501	Integrated Circuit	Q12	Bellcore Issue 6	Level I		0.059366	1.00	.4775	0.059366	16844654.92

**AAEON Reliability Prediction Report**

**Part Number** 9697689040  
**Reference Des**  
**Date** 07. 7, 2000  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temperature** 25.00



**Description** Top-level assembly  
**File Name** 6890b0.1.RPJ  
**Time** 5:07 PM  
**Failure Rate** 12.433412  
**MTBF** 80,428

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
106B501030	Resistor	J2	Bellcore Issue 6	Level I		0.011379	1.00	.0915	0.011379	87878027.07
1119610290	Capacitor	C10,C115,C21,C30-31,C34-35,C4--5,C9	Bellcore Issue 6	Level I		0.075338	10.00	6.0593	0.753382	13273483.15
1119610293	Capacitor	C7-8	Bellcore Issue 6	Level I		0.071121	2.00	1.1440	0.142243	14060484.33
1211100100	Inductor	L3	Bellcore Issue 6	Level I		0.086173	1.00	.6931	0.086173	11604581.32
1211102762	Inductor	L2	Bellcore Issue 6	Level I		0.086173	1.00	.6931	0.086173	11604581.32
1651584490	Connection	DIM1	Bellcore Issue 6	Level I		0.095587	1.00	.7688	0.095587	10461669.89
1651607920	Connection	CPU1	Bellcore Issue 6	Level I		0.210519	1.00	1.6932	0.210519	4750163.63
1652508204	Connection	CN15	Bellcore Issue 6	Level I		0.004552	1.00	.0366	0.004552	219695067.68
1653002100	Connection	J6	Bellcore Issue 6	Level I		0.001138	1.00	.0092	0.001138	878780270.71
1653002101	Connection	J11-12	Bellcore Issue 6	Level I		0.001138	1.00	.0092	0.001138	878780270.71
1653003101	Connection	J1,J8-9,J13	Bellcore Issue 6	Level I		0.001707	4.00	.0549	0.006828	585853513.81
1653003200	Connection	LED2	Bellcore Issue 6	Level I		0.003414	1.00	.0275	0.003414	292926756.90
1653003201	Connection	J3-5,J7,J10,J7*2	Bellcore Issue 6	Level I		0.003414	6.00	.1647	0.020483	292926756.90
1653004200	Connection	CN3,CN7	Bellcore Issue 6	Level I		0.004552	2.00	.0732	0.009104	219695067.68
1653004205	Connection	CN11	Bellcore Issue 6	Level I		0.003983	1.00	.0320	0.003983	251080077.35
1653005100	Connection	CN8	Bellcore Issue 6	Level I		0.002845	1.00	.0229	0.002845	351512108.28
1653213201	Connection	CN14	Bellcore Issue 6	Level I		0.014793	1.00	.1190	0.014793	67598482.36
1653020200	Connection	CN16	Bellcore Issue 6	Level I		0.022759	1.00	.1830	0.022759	43939013.54
1653025201	Connection	CN10	Bellcore Issue 6	Level I		0.028449	1.00	.2288	0.028449	35151210.83
1653120225	Connection	CN5	Bellcore Issue 6	Level I		0.022759	1.00	.1830	0.022759	43939013.54
1653132220	Connection	CN2	Bellcore Issue 6	Level I		0.036414	1.00	.2929	0.036414	27461883.46
1653207200	Connection	CN13	Bellcore Issue 6	Level I		0.007966	1.00	.0641	0.007966	125540038.67
1653208200	Connection	CN12	Bellcore Issue 6	Level I		0.009104	1.00	.0732	0.009104	109847533.84
1653217202	Connection	CN17	Bellcore Issue 6	Level I		0.019345	1.00	.1556	0.019345	51692957.10
1653222200	Connection	CN6	Bellcore Issue 6	Level I		0.025035	1.00	.2014	0.025035	39944557.76
1654260200	Connection	PCI1	Bellcore Issue 6	Level I		0.068276	1.00	.5491	0.068276	14646337.85
1655003000	Connection	CN1	Bellcore Issue 6	Level I		0.001707	1.00	.0137	0.001707	585853513.81
1655304020	Connection	CN4	Bellcore Issue 6	Level I		0.002276	1.00	.0183	0.002276	439390135.35
1655420021	Connection	CN9	Bellcore Issue 6	Level I		0.284485	1.00	2.2881	0.284485	3515121.08
1750119011	Miscellaneous	BT1	Bellcore Issue 6	Level I		0.900000	1.00	7.2386	0.900000	1111111.11

