



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

PCM-6897 rev:A0.2
Reliability Prediction Report
(MTBF)

Release Date: Apr , 30 , 2003

04-30-2003

Issue Stamp

Wayne Chen

A.V.P

Rex Chang

Test Engineer

Reliability Prediction (MTBF)

- . Model Name: PCM-6897 (Rev.A0.2)
- . Description: Compact Board.
- . Prediction Date: Mar. 13, 2003
- . Prediction Site: AAEON DV Dept.
- . Predicted by : Rex Chang
- . Equipment: Relex Ver.7.2 Visual Reliability Software
- . Simulation Environment:
 - Temperature: 23.8 degrees C
 - Standard: Telcordia (Bellcore) Standard

. 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.

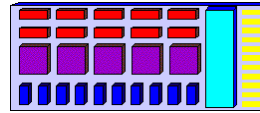
IX. Prediction Result:

Failure Rate: 8.355147ppm
MTBF: 119,687Hours (about 13.66 years)

X. Prediction Table:

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 04. 30, 2003
Environment GB, GC - Ground Benign, Controlled
Temperature 30.00

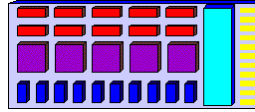


Description Top-level assembly
File Name PCM-6897A02(ATX).RPJ
Time 1:39 PM
Failure Rate 8.355147
MTBF 119,687

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
System	System	Bellcore	Method I Case 3	GB, GC - Ground Benign,	100.00	1.00	8.355147	119,687

AAEON Reliability Prediction Report

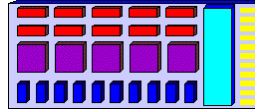
Part Number System
Reference Des
Date 04. 30, 2003
Environment GB, GC - Ground Benign, Controlled
Temperature 30.00



Description Top-level assembly
File Name PCM-6897A02(ATX).RPJ
Time 1:39 PM
Failure Rate 8.355147
MTBF 119,687

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1653004205	Connection	CN13	Bellcore Issue 6	Level I		0.002943	1.00	.0352	0.002943	339824295.87
1652508204	Connection	LAN1	Bellcore Issue 6	Level I		0.002943	1.00	.0352	0.002943	339824295.87
1653010202	Connection	CN17	Bellcore Issue 6	Level I		0.007357	1.00	.0881	0.007357	135929718.35
1211100300	Inductor	L2	Bellcore Issue 6	Level I		0.047445	1.00	.5679	0.047445	21077107.86
1211100200	Inductor	L4	Bellcore Issue 6	Level I	13.50	0.060614	1.00	.7255	0.060614	16497749.76
1653130424	Connection	104+ 1	Bellcore Issue 6	Level I		0.044140	1.00	.5283	0.044140	22654953.06
1119622290	Capacitor	TC13,TC18-21	Bellcore Issue 6	Level I		0.048706	5.00	2.9147	0.243529	20531421.63
1119622212	Capacitor	TC31	Bellcore Issue 6	Level I		0.030575	1.00	.3659	0.030575	32705933.42
1759100002	Miscellaneous	SP1	Bellcore Issue 6	Level I		0.075000	1.00	.8977	0.075000	13333333.33
1651607920	Connection	U1	Bellcore Issue 6	Level I	12.30	0.247355	1.00	2.9605	0.247355	4042775.60
1655420020	Connection	CN1	Bellcore Issue 6	Level I		0.007357	1.00	.0881	0.007357	135929718.35
1653220205	Connection	CN11	Bellcore Issue 6	Level I		0.014713	1.00	.1761	0.014713	67964859.17
1653220208	Connection	IDE1	Bellcore Issue 6	Level I		0.014713	1.00	.1761	0.014713	67964859.17
1653008200	Connection	CN14	Bellcore Issue 6	Level I		0.005885	1.00	.0704	0.005885	169912147.94
1651584490	Connection	DIMM1	Bellcore Issue 6	Level I		0.061797	1.00	.7396	0.061797	16182109.33
1653006100	Connection	CN7	Bellcore Issue 6	Level I		0.002207	1.00	.0264	0.002207	453099061.16
1653003100	Connection	JP2,JP6-8	Bellcore Issue 6	Level I		0.001104	4.00	.0528	0.004414	906198122.33
1653003201	Connection	JP5	Bellcore Issue 6	Level I		0.002207	1.00	.0264	0.002207	453099061.16
1211100106	Inductor	L3	Bellcore Issue 6	Level I	10.10	0.057101	1.00	.6834	0.057101	17512736.07
1654260201	Connection	PCI1	Bellcore Issue 6	Level I		0.044140	1.00	.5283	0.044140	22654953.06
106B501030	Resistor	RT1	Bellcore Issue 6	Level I		0.007357	1.00	.0881	0.007357	135929718.35
1112622090	Capacitor	TC27-30	Bellcore Issue 6	Level I		0.013428	4.00	.6429	0.053714	74468940.72
1119610190	Capacitor	TC5-6	Bellcore Issue 6	Level I		0.029224	2.00	.6995	0.058447	34219036.04
1655305020	Connection	CN12	Bellcore Issue 6	Level I		0.001839	1.00	.0220	0.001839	543718873.40
1750220320	Connection	BAT1	Bellcore Issue 6	Level I		0.000736	1.00	.0088	0.000736	1359297183.49
1119610296	Capacitor	C394,TC14-15,TC2,TC7-8	Bellcore Issue 6	Level I		0.048706	6.00	3.4977	0.292235	20531421.63
1655003000	Connection	CN19-20	Bellcore Issue 6	Level I		0.001104	2.00	.0264	0.002207	906198122.33
1653005200	Connection	CN21	Bellcore Issue 6	Level I		0.003678	1.00	.0440	0.003678	271859436.70
14S4021310	Integrated Circuit	U13-16	Bellcore Issue 6	Level I		0.042535	4.00	2.0363	0.170138	23510284.61
105A505603	Resistor	R316,R319,R334,R37	Bellcore Issue 6	Level I		0.001249	4.00	.0598	0.004994	800930098.66
105A551103	Resistor	R38	Bellcore Issue 6	Level I		0.001249	1.00	.0149	0.001249	800930098.66

AAEON Reliability Prediction Report

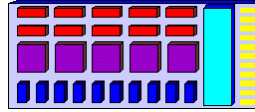


Part Number System
Reference Des
Date 04. 30, 2003
Environment GB, GC - Ground Benign, Controlled
Temperature 30.00

Description Top-level assembly
File Name PCM-6897A02(ATX).RPJ
Time 1:39 PM
Failure Rate 8.355147
MTBF 119,687

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A705603	Resistor	R43	Bellcore Issue 6	Level I		0.001249	1.00	.0149	0.001249	800930098.66
105A703303	Resistor	R168-168,R170,R182,R222,R247--250,R254,R44,R446,R46,R48,R50,-R52,R54-59,R69-74	Bellcore Issue 6	Level I		0.001249	28.00	.4184	0.034959	800930098.66
105A513003	Resistor	R45	Bellcore Issue 6	Level I		0.001249	1.00	.0149	0.001249	800930098.66
105A701003	Resistor	R103,R239,R47,R49,R51,R53,R64,-R67-68	Bellcore Issue 6	Level I		0.001249	9.00	.1345	0.011237	800930098.66
105A704723	Resistor	R112,R171,R181,R183-185,R191--192,R194-195,R198-201,R210-212-,R223,R231,R257,R335,R346-347,-R363,R374,R394,R397,R399-401,R-405,R412,R420-421,R423-424,R429-431,R433,R455-458,R464-466,R-470,R65,R78,R79	Bellcore Issue 6	Level I		0.001249	51.00	.7621	0.063676	800930098.66
105A701033	Resistor	R130,R175,R177,R241,R291,R311--312,R321,R353,R403-404,R409,R-75,R80,R81,R92	Bellcore Issue 6	Level I		0.001249	16.00	.2391	0.019977	800930098.66
105A700133	Resistor	R115,R117,R120,R122,R127,R176-,R178-180,R227-229,R240,R354,R-364,R395,R407,R76-77	Bellcore Issue 6	Level I		0.001249	19.00	.2839	0.023722	800930098.66
105A501033	Resistor	R325,R358,R376-378,R387-389,R-87	Bellcore Issue 6	Level I		0.001249	9.00	.1345	0.011237	800930098.66
14S3020011	Integrated Circuit	U8	Bellcore Issue 6	Level I	12.70	0.100769	1.00	1.2061	0.100769	9923658.93
105A540263	Resistor	R101,R104,R108,R94	Bellcore Issue 6	Level I		0.001249	4.00	.0598	0.004994	800930098.66
105A530003	Resistor	R102,R106,R109-110	Bellcore Issue 6	Level I		0.001249	4.00	.0598	0.004994	800930098.66
105A710053	Resistor	R124-125	Bellcore Issue 6	Level I		0.007491	2.00	.1793	0.014983	133488349.78
105A707503	Resistor	R135-137	Bellcore Issue 6	Level I		0.001249	3.00	.0448	0.003746	800930098.66
105A747033	Resistor	R186-187	Bellcore Issue 6	Level I		0.001249	2.00	.0299	0.002497	800930098.66
105A702723	Resistor	R193,R196,R252-253,R305,R448	Bellcore Issue 6	Level I		0.001249	6.00	.0897	0.007491	800930098.66
1651203291	Connection	U6	Bellcore Issue 6	Level I		0.011771	1.00	.1409	0.011771	84956073.97
105A702033	Resistor	R207-208,R449	Bellcore Issue 6	Level I		0.001249	3.00	.0448	0.003746	800930098.66
105A704733	Resistor	R234-237,R361,R392	Bellcore Issue 6	Level I		0.001249	6.00	.0897	0.007491	800930098.66
105A705623	Resistor	R255-256	Bellcore Issue 6	Level I		0.001249	2.00	.0299	0.002497	800930098.66
14S4280104	Integrated Circuit	U4	Bellcore Issue 6	Level I	10.50	0.046717	1.00	.5591	0.046717	21405659.27

AAEON Reliability Prediction Report



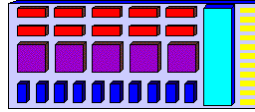
Part Number System
Reference Des
Date 04. 30, 2003
Environment GB, GC - Ground Benign, Controlled
Temperature 30.00

Description Top-level assembly
File Name PCM-6897A02(ATX).RPJ
Time 1:39 PM
Failure Rate 8.355147
MTBF 119,687

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1122701680	Capacitor	C1-2,C10,C105,C107,C111-112,C1-26,C13-27,C144-147,C160,C162-1-64,C171,C176-177,C184,C189-190-,C200,C210,C213-215,C221,C224--225,C231-248,C250,C252,C254,C2-56,C258,C276,C286-288,C291-295-,C297-302,C310-317,C320-349,C3-51-352,C354-355,C357-358,C360--362,C364-371	Bellcore Issue 6	Level I		0.000825	139.00	1.3723	0.114655	1212335760.74
1124410080	Capacitor	C140,C143,C282,C6	Bellcore Issue 6	Level I		0.000547	4.00	.0262	0.002190	1826769085.82
1121647780	Capacitor	C114,C191,C30-38,C42	Bellcore Issue 6	Level I		0.001311	12.00	.1883	0.015731	762806343.57
1124405080	Capacitor	C47,C52	Bellcore Issue 6	Level I		0.000547	2.00	.0131	0.001095	1826769085.82
1124422080	Capacitor	C139,C142,C178,C193-194,C260--261,C65,C86	Bellcore Issue 6	Level I		0.000547	9.00	.0590	0.004927	1826769085.82
1231324550	Miscellaneous	Y2	Bellcore Issue 6	Level I		0.075000	1.00	.8977	0.075000	13333333.33
1129701080	Capacitor	C109-110,C165,C185,C188,C195,C-202-203,C205,C208-209,C217,C21-9-220,C274-275,C305,C390	Bellcore Issue 6	Level I		0.001406	18.00	.3028	0.025300	711449301.06
1124412080	Capacitor	C115-116	Bellcore Issue 6	Level I		0.000547	2.00	.0131	0.001095	1826769085.82
1124433080	Capacitor	C121,C123,C125,C129-130	Bellcore Issue 6	Level I		0.000547	5.00	.0328	0.002737	1826769085.82
1124482080	Capacitor	C132-135	Bellcore Issue 6	Level I		0.000547	4.00	.0262	0.002190	1826769085.82
1124522180	Capacitor	C136	Bellcore Issue 6	Level I		0.000547	1.00	.0066	0.000547	1826769085.82
1124510280	Capacitor	C159,C161,C277-278,C280	Bellcore Issue 6	Level I		0.000547	5.00	.0328	0.002737	1826769085.82
1231332721	Miscellaneous	X1	Bellcore Issue 6	Level I		0.075000	1.00	.8977	0.075000	13333333.33
1121733780	Capacitor	C168-170,C179-180,C196	Bellcore Issue 6	Level I		0.001311	6.00	.0941	0.007866	762806343.57
1124527180	Capacitor	C186-187	Bellcore Issue 6	Level I		0.000547	2.00	.0131	0.001095	1826769085.82
14S4072200	Integrated Circuit	U31	Bellcore Issue 6	Level I	16.50	0.063868	1.00	.7644	0.063868	15657355.20
1129610260	Capacitor	C268	Bellcore Issue 6	Level I		0.000368	1.00	.0044	0.000368	2718958522.59
1122501780	Capacitor	C296,C303,C379-382	Bellcore Issue 6	Level I		0.000825	6.00	.0592	0.004949	1212335760.74
14S4070610	Integrated Circuit	U29	Bellcore Issue 6	Level I		0.042535	1.00	.5091	0.042535	23510284.61
1189615181	Capacitor	TC12,TC16	Bellcore Issue 6	Level I		0.002716	2.00	.0650	0.005432	368200063.66
1301005441	Semiconductor	D11,D4-6	Bellcore Issue 6	Level I		0.013753	4.00	.6584	0.055012	72710998.66
1301005442	Semiconductor	D13	Bellcore Issue 6	Level I		0.013753	1.00	.1646	0.013753	72710998.66

AAEON Reliability Prediction Report

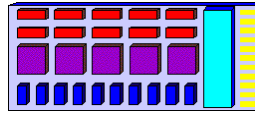
Part Number System
Reference Des
Date 04. 30, 2003
Environment GB, GC - Ground Benign, Controlled
Temperature 30.00



Description Top-level assembly
File Name PCM-6897A02(ATX).RPJ
Time 1:39 PM
Failure Rate 8.355147
MTBF 119,687

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1212308054	Inductor	FB1-3,FB12-13,FB22-23,FB45,FB4-7,FB59,FB65	Bellcore Issue 6	Level I		0.001249	11.00	.1644	0.013734	800930098.66
1059700001	Resistor	C269,FB28,FB7	Bellcore Issue 6	Level I		0.001249	3.00	.0448	0.003746	800930098.66
105A700003	Resistor	C204,FB11,FB41,R121,R123,R126-,R128,R139-142,R145,R148-149,R-160-161,R169,R190,R216-219,R22-4,R226,R232-233,R242-243,R245,-R258-259,R276,R309,R334,R34,R-349,R360,R366-373,R385,R40,R40-6,R408,R411,R444-445,R447,R453-454,R460,R8,R82-83	Bellcore Issue 6	Level I		0.001249	59.00	.8817	0.073664	800930098.66
1212306033	Inductor	FB29-31,FB33-35	Bellcore Issue 6	Level I		0.001249	6.00	.0897	0.007491	800930098.66
1315942410	Semiconductor	U28	Bellcore Issue 6	Level I		0.045844	1.00	.5487	0.045844	21813299.60
1212306030	Inductor	FB48-54,FB56-58	Bellcore Issue 6	Level I		0.001249	10.00	.1494	0.012485	800930098.66
105A733003	Resistor	R12,R16,R230,R272-274,R28,R350-R355-357	Bellcore Issue 6	Level I		0.001249	11.00	.1644	0.013734	800930098.66
105A515003	Resistor	R19,R33,R36,R41,R86,R95	Bellcore Issue 6	Level I		0.001249	6.00	.0897	0.007491	800930098.66
105A501403	Resistor	R24	Bellcore Issue 6	Level I		0.001249	1.00	.0149	0.001249	800930098.66
105A501823	Resistor	R30	Bellcore Issue 6	Level I		0.001249	1.00	.0149	0.001249	800930098.66
105A701523	Resistor	R323	Bellcore Issue 6	Level I		0.001249	1.00	.0149	0.001249	800930098.66
1653004202	Connection	CN18	Bellcore Issue 6	Level I		0.002943	1.00	.0352	0.002943	339824295.87
1750119011	Miscellaneous	BAT1	Bellcore Issue 6	Level I		0.450000	1.00	5.3859	0.450000	2222222.22
1129747650	Capacitor	C11-12,C249,C251,C253,C255,C2-57,C306-309,C318-319,C350,C353-C356,C359,C363,C4,C78-79	Bellcore Issue 6	Level I		0.001406	21.00	.3533	0.029517	711449301.06
1139710060	Capacitor	C108,C175,C181,C216,C223,C266-267,C279,C28-29,C284,C289-290-,C383,C387,C395-396,C88-91,TC3-4	Bellcore Issue 6	Level I		0.001406	23.00	.3869	0.032328	711449301.06
1231325050	Miscellaneous	Y3	Bellcore Issue 6	Level I		0.075000	1.00	.8977	0.075000	13333333.33
1121722650	Capacitor	C113	Bellcore Issue 6	Level I		0.001311	1.00	.0157	0.001311	762806343.57
1121610180	Capacitor	C120,C122,C124,C127-128,C137,C-149	Bellcore Issue 6	Level I		0.001311	7.00	.1098	0.009177	762806343.57
1124447080	Capacitor	C131,C148,C150	Bellcore Issue 6	Level I		0.000547	3.00	.0197	0.001642	1826769085.82

AAEON Reliability Prediction Report



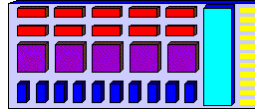
Part Number System
Reference Des
Date 04. 30, 2003
Environment GB, GC - Ground Benign, Controlled
Temperature 30.00

Description Top-level assembly
File Name PCM-6897A02(ATX).RPJ
Time 1:39 PM
Failure Rate 8.355147
MTBF 119,687

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1122722780	Capacitor	C138,C141,C281,C285	Bellcore Issue 6	Level I		0.000825	4.00	.0395	0.003299	1212335760.74
1231314350	Miscellaneous	Y1	Bellcore Issue 6	Level I		0.075000	8.00	7.1812	0.600000	13333333.33
1124447180	Capacitor	C172-174,C182-183,C197,C201,C-206	Bellcore Issue 6	Level I		0.000547	8.00	.0524	0.004379	1826769085.82
1124582280	Capacitor	C218	Bellcore Issue 6	Level I		0.000547	1.00	.0066	0.000547	1826769085.82
1124527280	Capacitor	C283	Bellcore Issue 6	Level I		0.000547	1.00	.0066	0.000547	1826769085.82
14S5A01421	Integrated Circuit	U30	Bellcore Issue 6	Level I		0.025295	1.00	.3027	0.025295	39534043.95
1301005440	Semiconductor	D1-3,D7-8,D12,D14	Bellcore Issue 6	Level I		0.013753	7.00	1.1522	0.096272	72710998.66
1300103540	Semiconductor	D9	Bellcore Issue 6	Level I		0.013753	1.00	.1646	0.013753	72710998.66
1212306032	Inductor	FB4-6,FB60,FB62-64	Bellcore Issue 6	Level I		0.001249	7.00	.1046	0.008740	800930098.66
1212306031	Inductor	FB8-10	Bellcore Issue 6	Level I		0.001249	3.00	.0448	0.003746	800930098.66
121230603E	Inductor	FB32,FB37-40	Bellcore Issue 6	Level I		0.001249	5.00	.0747	0.006243	800930098.66
14S2039300	Integrated Circuit	U27	Bellcore Issue 6	Level I		0.032957	1.00	.3944	0.032957	30342765.08
105A516513	Resistor	R238	Bellcore Issue 6	Level I		0.001249	1.00	.0149	0.001249	800930098.66
105A554903	Resistor	R285	Bellcore Issue 6	Level I		0.001249	1.00	.0149	0.001249	800930098.66
105A512103	Resistor	R297,R314,R328,R330,R332,R344	Bellcore Issue 6	Level I		0.001249	6.00	.0897	0.007491	800930098.66
105A503033	Resistor	R333,R380	Bellcore Issue 6	Level I		0.001249	2.00	.0299	0.002497	800930098.66
105A502033	Resistor	R338	Bellcore Issue 6	Level I		0.001249	1.00	.0149	0.001249	800930098.66
14S4871201	Integrated Circuit	U10	Bellcore Issue 6	Level I	8.10	0.041085	1.00	.4917	0.041085	24339941.39
14S1488000	Integrated Circuit	U9	Bellcore Issue 6	Level I		0.042535	1.00	.5091	0.042535	23510284.61
105A563463	Resistor	R84	Bellcore Issue 6	Level I		0.001249	1.00	.0149	0.001249	800930098.66
105A708223	Resistor	R111-114,R118-119,R172-174,R2-20,R402,R415-419,R467-469,R88--89	Bellcore Issue 6	Level I		0.001249	21.00	.3138	0.026220	800930098.66
105A510003	Resistor	R298,R300,R96	Bellcore Issue 6	Level I		0.001249	3.00	.0448	0.003746	800930098.66
105A517403	Resistor	R105	Bellcore Issue 6	Level I		0.001249	1.00	.0149	0.001249	800930098.66
14S5A00700	Integrated Circuit	U7	Bellcore Issue 6	Level I		0.025295	1.00	.3027	0.025295	39534043.95
105A756033	Resistor	R188-189	Bellcore Issue 6	Level I		0.001249	2.00	.0299	0.002497	800930098.66
105A703033	Resistor	R206,R209	Bellcore Issue 6	Level I		0.001249	2.00	.0299	0.002497	800930098.66
14S3020100	Integrated Circuit	U5	Bellcore Issue 6	Level I		0.042535	1.00	.5091	0.042535	23510284.61
105A710003	Resistor	R351	Bellcore Issue 6	Level I		0.001249	1.00	.0149	0.001249	800930098.66
105A705103	Resistor	R365,R375,R396,R398	Bellcore Issue 6	Level I		0.001249	4.00	.0598	0.004994	800930098.66

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 04. 30, 2003
Environment GB, GC - Ground Benign, Controlled
Temperature 30.00

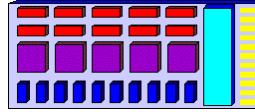


Description Top-level assembly
File Name PCM-6897A02(ATX).RPJ
Time 1:39 PM
Failure Rate 8.355147
MTBF 119,687

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A523233	Resistor	R381	Bellcore Issue 6	Level I		0.001249	1.00	.0149	0.001249	800930098.66
105A505633	Resistor	R390-391	Bellcore Issue 6	Level I		0.001249	2.00	.0299	0.002497	800930098.66
105A501223	Resistor	R471	Bellcore Issue 6	Level I		0.001249	1.00	.0149	0.001249	800930098.66
105A507503	Resistor	R162-164,R301-304,R39,R9	Bellcore Issue 6	Level I		0.001249	9.00	.1345	0.011237	800930098.66
14S4652400	Integrated Circuit	U25	Bellcore Issue 6	Level I	12.80	0.101428	1.00	1.2140	0.101428	9859205.64
1653017201	Connection	CN4	Bellcore Issue 6	Level I		0.012506	1.00	.1497	0.012506	79958657.85
1315970110	Semiconductor	F1-4	Bellcore Issue 6	Level I		0.091687	4.00	4.3895	0.366749	10906649.80
1653205201	Connection	CN8-10	Bellcore Issue 6	Level I		0.003678	3.00	.1321	0.011035	271859436.70
14S5A01400	Integrated Circuit	U18,U33	Bellcore Issue 6	Level I		0.042535	2.00	1.0182	0.085069	23510284.61
1653003202	Connection	CN5,JP1,JP3-4	Bellcore Issue 6	Level I		0.002207	4.00	.1057	0.008828	453099061.16
14S4048500	Integrated Circuit	U17,U19	Bellcore Issue 6	Level I		0.042535	2.00	1.0182	0.085069	23510284.61
1304100540	Semiconductor	LED1	Bellcore Issue 6	Level I		0.003823	1.00	.0458	0.003823	261592266.64
1304900040	Semiconductor	LED2	Bellcore Issue 6	Level I		0.003823	1.00	.0458	0.003823	261592266.64
1213106008	Inductor	LN1-12	Bellcore Issue 6	Level I		0.001249	12.00	.1793	0.014983	800930098.66
1211104760	Inductor	L1	Bellcore Issue 6	Level I		0.047445	1.00	.5679	0.047445	21077107.86
1233327051	Miscellaneous	OSC1	Bellcore Issue 6	Level I		0.180000	1.00	2.1544	0.180000	555555.56
1653213220	Connection	CN6	Bellcore Issue 6	Level I		0.009564	1.00	.1145	0.009564	104561321.81
1315700211	Semiconductor	Q1,Q10-13,Q16,Q22-23,Q27,Q29,- Q32,Q5-8	Bellcore Issue 6	Level I		0.045844	15.00	8.2303	0.687654	21813299.60
1310222210	Semiconductor	Q2,Q25	Bellcore Issue 6	Level I		0.013753	2.00	.3292	0.027506	72710998.66
1315103110	Semiconductor	Q3-4	Bellcore Issue 6	Level I		0.091687	2.00	2.1947	0.183374	10906649.80
1315610710	Semiconductor	Q21	Bellcore Issue 6	Level I		0.091687	1.00	1.0974	0.091687	10906649.80
1315613710	Semiconductor	Q18	Bellcore Issue 6	Level I	16.80	0.071359	1.00	.8541	0.071359	14013620.16
1314101010	Integrated Circuit	U24	Bellcore Issue 6	Level I		0.042535	1.00	.5091	0.042535	23510284.61
1311290710	Semiconductor	Q26,Q28	Bellcore Issue 6	Level I		0.013753	2.00	.3292	0.027506	72710998.66
1310390411	Semiconductor	Q30	Bellcore Issue 6	Level I		0.013753	1.00	.1646	0.013753	72710998.66
1315993310	Semiconductor	Q31	Bellcore Issue 6	Level I		0.091687	1.00	1.0974	0.091687	10906649.80
1540756080	Resistor	RN3-30	Bellcore Issue 6	Level I		0.003910	28.00	1.3105	0.109490	255730457.04
1540782280	Resistor	RN31-33,RN44-47	Bellcore Issue 6	Level I		0.003910	7.00	.3276	0.027373	255730457.04
1540715080	Resistor	RN34-35	Bellcore Issue 6	Level I		0.003910	2.00	.0936	0.007821	255730457.04
1540715380	Resistor	RN36-37	Bellcore Issue 6	Level I		0.003910	2.00	.0936	0.007821	255730457.04

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 04. 30, 2003
Environment GB, GC - Ground Benign, Controlled
Temperature 30.00



Description Top-level assembly
File Name PCM-6897A02(ATX).RPJ
Time 1:39 PM
Failure Rate 8.355147
MTBF 119,687

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1540722280	Resistor	RN38	Bellcore Issue 6	Level I		0.003910	1.00	.0468	0.003910	255730457.04
1540701380	Resistor	RN39	Bellcore Issue 6	Level I		0.003910	1.00	.0468	0.003910	255730457.04
1540747282	Resistor	RN40-43	Bellcore Issue 6	Level I		0.003910	4.00	.1872	0.015641	255730457.04
1540727280	Resistor	RN48-51	Bellcore Issue 6	Level I		0.003910	4.00	.1872	0.015641	255730457.04
105A702223	Resistor	R1-2,R107,R134,R143,R202,R204,-R459	Bellcore Issue 6	Level I		0.001249	8.00	.1195	0.009988	800930098.66
105A500133	Resistor	R3-5,R22,R339-340,R342	Bellcore Issue 6	Level I		0.001249	7.00	.1046	0.008740	800930098.66
1174510180	Capacitor	CP4-13	Bellcore Issue 6	Level I		0.000547	40.00	.2621	0.021897	1826769085.82
1653925216	Connection	CFD1	Bellcore Issue 6	Level I		0.018392	1.00	.2201	0.018392	54371887.34
14S4256200	Inductor	U34	Bellcore Issue 6	Level I	9.10	0.088569	1.00	1.0600	0.088569	11290680.62
1174522180	Capacitor	CP3	Bellcore Issue 6	Level I		0.000547	4.00	.0262	0.002190	1826769085.82
1212306034	Inductor	FB24-27	Bellcore Issue 6	Level I		0.001249	4.00	.0598	0.004994	800930098.66
1212306035	Inductor	FB14-21	Bellcore Issue 6	Level I		0.001249	8.00	.1195	0.009988	800930098.66
14S6334610	Integrated Circuit	U23	Bellcore Issue 6	Level I		0.021923	1.00	.2624	0.021923	45614435.26
14S6200200	Integrated Circuit	U6	Bellcore Issue 6	Level I		0.106747	1.00	1.2776	0.106747	9367974.40
1122701680	Capacitor	C373-376,C385,C389,C397,C39-41-,C5,C7-9,C71-72,C75,C80-85,C87,-C92-99	Bellcore Issue 6	Level I		0.000825	31.00	.3060	0.025570	1212335760.74
14S4871201	Integrated Circuit	U32	Bellcore Issue 6	Level I	11.20	0.048482	1.00	.5803	0.048482	20626084.74
1315613710	Semiconductor	Q19	Bellcore Issue 6	Level I	16.40	0.070650	1.00	.8456	0.070650	14154381.03
1314101010	Integrated Circuit	U22	Bellcore Issue 6	Level I	11.50	0.093160	1.00	1.1150	0.093160	10734247.20
1314101010	Integrated Circuit	U26	Bellcore Issue 6	Level I	21.90	0.180464	1.00	2.1599	0.180464	5541263.94
1314101010	Integrated Circuit	Q24	Bellcore Issue 6	Level I	9.40	0.081082	1.00	.9704	0.081082	12333219.50
1189615181	Capacitor	TC10	Bellcore Issue 6	Level I	13.40	0.003464	1.00	.0415	0.003464	288703609.28
1189615181	Capacitor	TC11	Bellcore Issue 6	Level I	14.00	0.003500	1.00	.0419	0.003500	285713878.14
1315610710	Semiconductor	Q17	Bellcore Issue 6	Level I	18.10	0.147405	1.00	1.7642	0.147405	6784036.89
1315610710	Semiconductor	Q20	Bellcore Issue 6	Level I	10.20	0.120626	1.00	1.4437	0.120626	8290055.10
1315610710	Semiconductor	Q15	Bellcore Issue 6	Level I	8.40	0.115076	1.00	1.3773	0.115076	8689883.09
1315610710	Semiconductor	Q14	Bellcore Issue 6	Level I	8.50	0.115380	1.00	1.3809	0.115380	8667049.46
1189615181	Capacitor	C393	Bellcore Issue 6	Level I	11.60	0.003356	1.00	.0402	0.003356	297932834.64
1189615181	Capacitor	TC26	Bellcore Issue 6	Level I	10.20	0.003274	1.00	.0392	0.003274	305390951.38
1189615181	Capacitor	TC17	Bellcore Issue 6	Level I	10.30	0.003280	1.00	.0393	0.003280	304849865.30