



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

SBC-800
Reliability Prediction Report
(MTBF)

Release Date: MAR. 14, 2002

Issue Stamp

QA Manager

QE Manager

Test Engineer

Reliability Prediction (MTBF)

I . Model Name: SBC-800

II .Description: AIO Full-size CPU Card. P4 Socket 478. W/LVDs,TV-out, Dual Lan, Audio. CF2 & 4USB Ports.

Rev.A1.1

III . Prediction Date: MAR. 14. 2002

IV . Prediction Site: AAEON QE Dept.

V . Predicted by : Linda Sun

VI . Equipment: Relex Ver.7.2 Visual Reliability Software

VII. Simulation Environment:

- Temperature: 25 degrees C(No temperature rise condition)
- Standard: Telcordia (Bellcore) Standard

VIII. 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: 13.637177ppm
- MTBF: 73,329Hours

X. Prediction Table:

AAEON Reliability Prediction Report

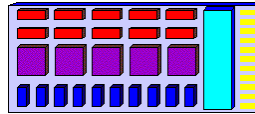
Part Number 9697800006
Reference Des
Date 03. 14, 2002
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00



Description Top-level assembly
File Name 800A1.1.RPJ
Time 10:11 AM
Failure Rate 13.637177
MTBF 73,329

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
SBC-800	9697800006	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	13.637177	73,329

AAEON Reliability Prediction Report



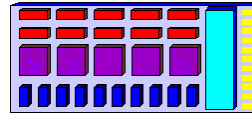
Part Number 9697800006
Reference Des
Date 03. 14, 2002
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00

Description Top-level assembly
File Name 800A1.1.RPJ
Time 10:11 AM
Failure Rate 13.637177
MTBF 73,329

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1059501001	Resistor	R143	Bellcore Issue 6	Level I		0.002268	1.00	.0166	0.002268	440974090.03
1059549971	Resistor	R508-509	Bellcore Issue 6	Level I		0.002268	2.00	.0333	0.004535	440974090.03
1059700001	Resistor	FB4,FB7,R243,R307,R364-365,R4-36-437,R510	Bellcore Issue 6	Level I		0.002268	9.00	.1497	0.020409	440974090.03
105A502003	Resistor	R384	Bellcore Issue 6	Level I		0.002268	1.00	.0166	0.002268	440974090.03
105A568003	Resistor	R222,R401,R489	Bellcore Issue 6	Level I		0.002268	3.00	.0499	0.006803	440974090.03
105A506823	Resistor	R169,R208	Bellcore Issue 6	Level I		0.002268	2.00	.0333	0.004535	440974090.03
105A524963	Resistor	R411,R415	Bellcore Issue 6	Level I		0.002268	2.00	.0333	0.004535	440974090.03
105A530103	Resistor	R412	Bellcore Issue 6	Level I		0.002268	1.00	.0166	0.002268	440974090.03
105A500133	Resistor	R417-418,R420-421	Bellcore Issue 6	Level I		0.002268	4.00	.0665	0.009071	440974090.03
105A511503	Resistor	R482	Bellcore Issue 6	Level I		0.002268	1.00	.0166	0.002268	440974090.03
105A520003	Resistor	R134,R148,R257,R273	Bellcore Issue 6	Level I		0.002268	4.00	.0665	0.009071	440974090.03
105A501033	Resistor	R11,R170,R173,R175-176,R178,R-209,R211,R410	Bellcore Issue 6	Level I		0.002268	9.00	.1497	0.020409	440974090.03
105A549903	Resistor	R157	Bellcore Issue 6	Level I		0.002268	1.00	.0166	0.002268	440974090.03
105A561903	Resistor	R152,R503	Bellcore Issue 6	Level I		0.002268	2.00	.0333	0.004535	440974090.03
105A584503	Resistor	R158	Bellcore Issue 6	Level I		0.002268	1.00	.0166	0.002268	440974090.03
105A505103	Resistor	R1,R8-9,R85-88,R128,R219-220,R-267,R269-272,R280,R283-287,R29-7-300,R370	Bellcore Issue 6	Level I		0.002268	26.00	.4324	0.058960	440974090.03
105A549963	Resistor	R42-43,R48,R50,R61,R63,R125,R-155,R381-382,R416	Bellcore Issue 6	Level I		0.002268	11.00	.1829	0.024945	440974090.03
105A547503	Resistor	R45	Bellcore Issue 6	Level I		0.002268	1.00	.0166	0.002268	440974090.03
105A512103	Resistor	R74,R93,R132,R149,R274,R512,R-526,R528	Bellcore Issue 6	Level I		0.002268	8.00	.1330	0.018142	440974090.03
105A510003	Resistor	R126,R156,R414,R426-427,R498--499	Bellcore Issue 6	Level I		0.002268	7.00	.1164	0.015874	440974090.03
105A512033	Resistor	R202,R256	Bellcore Issue 6	Level I		0.002268	2.00	.0333	0.004535	440974090.03
105A523233	Resistor	R204	Bellcore Issue 6	Level I		0.002268	1.00	.0166	0.002268	440974090.03
105A530003	Resistor	R218	Bellcore Issue 6	Level I		0.002268	1.00	.0166	0.002268	440974090.03
105A556223	Resistor	R244	Bellcore Issue 6	Level I		0.002268	1.00	.0166	0.002268	440974090.03
105A511823	Resistor	R346,R348	Bellcore Issue 6	Level I		0.002268	2.00	.0333	0.004535	440974090.03
105A561963	Resistor	R379	Bellcore Issue 6	Level I		0.002268	1.00	.0166	0.002268	440974090.03
105A556003	Resistor	R481	Bellcore Issue 6	Level I		0.002268	1.00	.0166	0.002268	440974090.03

AAEON Reliability Prediction Report

Part Number 9697800006
Reference Des
Date 03. 14, 2002
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00

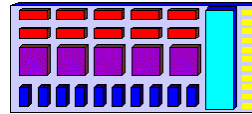


Description Top-level assembly
File Name 800A1.1.RPJ
Time 10:11 AM
Failure Rate 13.637177
MTBF 73,329

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A503033	Resistor	R12,R172,R258-260	Bellcore Issue 6	Level I		0.002268	5.00	.0831	0.011339	440974090.03
105A503300	Resistor	R21-22,R26-30,R46-47,R49,R51-57- R62,R64,R70-72,R90,R546-549	Bellcore Issue 6	Level I		0.002268	27.00	.4490	0.061228	440974090.03
105A507503	Resistor	R40-41,R60,R191,R372,R400,R407- R409,R432-433,R476-477,R488,R- 504-505,R563-565	Bellcore Issue 6	Level I		0.002268	18.00	.2993	0.040819	440974090.03
105A505603	Resistor	R73,R94,R527	Bellcore Issue 6	Level I		0.002268	3.00	.0499	0.006803	440974090.03
105A540263	Resistor	R119,R397,R439	Bellcore Issue 6	Level I		0.002268	3.00	.0499	0.006803	440974090.03
105A510053	Resistor	R34,R448	Bellcore Issue 6	Level I		0.013606	2.00	.1995	0.027212	73495681.67
105A515003	Resistor	R113,R118,R214,R374,R398-399,- R413	Bellcore Issue 6	Level I		0.002268	7.00	.1164	0.015874	440974090.03
105A554903	Resistor	R153,R502	Bellcore Issue 6	Level I		0.002268	2.00	.0333	0.004535	440974090.03
105A505633	Resistor	R203,R206	Bellcore Issue 6	Level I		0.002268	2.00	.0333	0.004535	440974090.03
105A704733	Resistor	R3,R276,R279,R315,R329,R331,R- 329,R331-332,R351,R353	Bellcore Issue 6	Level I		0.002268	9.00	.1497	0.020409	440974090.03
105A733003	Resistor	R13,R408,R434-435,R457,R506-5- 07,R568-571	Bellcore Issue 6	Level I		0.002268	11.00	.1829	0.024945	440974090.03
105A702233	Resistor	R16,R311-312,R467	Bellcore Issue 6	Level I		0.002268	4.00	.0665	0.009071	440974090.03
105A702223	Resistor	R18,R95,R264,R356,R359,R389,R- 395,R554,R556	Bellcore Issue 6	Level I		0.002268	9.00	.1497	0.020409	440974090.03
105A701033	Resistor	R25,R33,R37,R39,R44,R131,R141- R224,R241,R261,R309,R314,R337- R388,R404,R431,R453,R469-470,- R473	Bellcore Issue 6	Level I		0.002268	20.00	.3326	0.045354	440974090.03
105A708223	Resistor	R32,R75,R91,R99,R108,R195,R19- 9,R225-226,R239,R249-250,R252	Bellcore Issue 6	Level I		0.002268	13.00	.2162	0.029480	440974090.03
105A756033	Resistor	R36,R38	Bellcore Issue 6	Level I		0.002268	2.00	.0333	0.004535	440974090.03
105A704703	Resistor	R59,R106	Bellcore Issue 6	Level I		0.002268	2.00	.0333	0.004535	440974090.03
105A702033	Resistor	R111-112,R115,R345,R347,R544	Bellcore Issue 6	Level I		0.002268	6.00	.0998	0.013606	440974090.03
105A701053	Resistor	R117	Bellcore Issue 6	Level I		0.002268	1.00	.0166	0.002268	440974090.03
105A701523	Resistor	R223,R402,R490	Bellcore Issue 6	Level I		0.002268	3.00	.0499	0.006803	440974090.03
105A703323	Resistor	R263	Bellcore Issue 6	Level I		0.002268	1.00	.0166	0.002268	440974090.03
105A710033	Resistor	R131,R387,R405,R429,R474,R500	Bellcore Issue 6	Level I		0.002268	6.00	.0998	0.013606	440974090.03
105A702703	Resistor	R373	Bellcore Issue 6	Level I		0.002268	1.00	.0166	0.002268	440974090.03
105A705133	Resistor	R392-393	Bellcore Issue 6	Level I		0.002268	2.00	.0333	0.004535	440974090.03

AAEON Reliability Prediction Report

Part Number 9697800006
Reference Des
Date 03. 14, 2002
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00

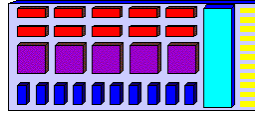


Description Top-level assembly
File Name 800A1.1.RPJ
Time 10:11 AM
Failure Rate 13.637177
MTBF 73,329

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A706233	Resistor	R406,R475	Bellcore Issue 6	Level I		0.002268	2.00	.0333	0.004535	440974090.03
105A702723	Resistor	R150,R227,R323-324	Bellcore Issue 6	Level I		0.002268	4.00	.0665	0.009071	440974090.03
105A747003	Resistor	R242,R290,R303,R577	Bellcore Issue 6	Level I		0.002268	4.00	.0665	0.009071	440974090.03
105A701533	Resistor	R288,R301,R446	Bellcore Issue 6	Level I		0.002268	3.00	.0499	0.006803	440974090.03
105A718003	Resistor	R336	Bellcore Issue 6	Level I		0.002268	1.00	.0166	0.002268	440974090.03
105A700133	Resistor	R4,R6,R23,R31,R65,R67-68,R154,- R183-186,R194,R213,R215,R217,- R246-247,R266,R268,R366-369,R- 380,R445,R447,R449-450,R459,R- 468,R483,R493--495,R541,R545	Bellcore Issue 6	Level I		0.002268	37.00	.6153	0.083905	440974090.03
105A703903	Resistor	R129	Bellcore Issue 6	Level I		0.002268	1.00	.0166	0.002268	440974090.03
105A700003	Resistor	FB10,FB12-13,FB15,FB17,FB40-41- ,FB48,R2,R19,R78,R92,R100,R104- -105,R110,R114,R120-121,R124,R- 127,R130,R133,R137,R140,R142,- R145,R163,R168,R171,R174,R177- ,R181,R196,R200-201,R205,R207,- R210,R295-296,R310,R322,R330,- R333,R338-341,R349-350,R352,R- 354,R377-378,R403,R	Bellcore Issue 6	Level I		0.002268	66.00	1.0975	0.149669	440974090.03
105A704723	Resistor	R2,R7,R10,R24,R35,R80,R83-84,R- 97-98,R151,R165-166,R197,R231,- R245,R275,R281-282,R289,R291,- R302,R304,R325-328,R343-344,R- 355,R357,R361,R386,R390,R396,- R422,R424-425,R430,R451,R491-- 492,R501,R525,R542-543,R551-55- 3,R555	Bellcore Issue 6	Level I		0.002268	50.00	.8314	0.113385	440974090.03
105A710003	Resistor	R17,R265,R557,R559	Bellcore Issue 6	Level I		0.002268	4.00	.0665	0.009071	440974090.03
105A722003	Resistor	R58	Bellcore Issue 6	Level I		0.002268	1.00	.0166	0.002268	440974090.03
105A768003	Resistor	R371	Bellcore Issue 6	Level I		0.002268	1.00	.0166	0.002268	440974090.03
106B501030	Resistor	RT1-2	Bellcore Issue 6	Level I		0.011379	2.00	.1669	0.022759	87878027.07
1124412080	Capacitor	C29-30	Bellcore Issue 6	Level I		0.001060	2.00	.0155	0.002120	943198589.05
1124447080	Capacitor	C44,C197,C211	Bellcore Issue 6	Level I		0.001060	3.00	.0233	0.003181	943198589.05
1124422080	Capacitor	C45-56,C83,C87,C91,C97,C123,C- 128,C251-254,C257-258,C298-299- ,C307-308,C315-318	Bellcore Issue 6	Level I		0.001060	22.00	.1710	0.023325	943198589.05

AAEON Reliability Prediction Report

Part Number 9697800006
Reference Des
Date 03. 14, 2002
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00



Description Top-level assembly
File Name 800A1.1.RPJ
Time 10:11 AM
Failure Rate 13.637177
MTBF 73,329

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1124510280	Capacitor	C60-61,C146,C149,C510	Bellcore Issue 6	Level I		0.001060	5.00	.0389	0.005301	943198589.05
1122747880	Capacitor	C75,C430	Bellcore Issue 6	Level I		0.001598	2.00	.0234	0.003195	625953979.55
1124522180	Capacitor	C88,C90,C101,C103,C333	Bellcore Issue 6	Level I		0.001060	5.00	.0389	0.005301	943198589.05
1124533180	Capacitor	C148	Bellcore Issue 6	Level I		0.001060	1.00	.0078	0.001060	943198589.05
1121547661	Capacitor	C173	Bellcore Issue 6	Level I		0.002539	1.00	.0186	0.002539	393852661.82
1121722650	Capacitor	C174	Bellcore Issue 6	Level I		0.002539	1.00	.0186	0.002539	393852661.82
1124547180	Capacitor	C179,C217-220,C235,C282,C284,- C336,C527-528	Bellcore Issue 6	Level I		0.001060	11.00	.0855	0.011662	943198589.05
1124433080	Capacitor	C230,C231,C244,C520-521,C538	Bellcore Issue 6	Level I		0.001060	6.00	.0466	0.006361	943198589.05
1121733780	Capacitor	C232-234,C280,C283,C335	Bellcore Issue 6	Level I		0.002539	6.00	.1117	0.015234	393852661.82
1129610260	Capacitor	C364,C437	Bellcore Issue 6	Level I		0.000712	2.00	.0104	0.001425	1403854412.74
1124482080	Capacitor	C522-526,C529	Bellcore Issue 6	Level I		0.001060	6.00	.0466	0.006361	943198589.05
1124410080	Capacitor	C2,C51-52,C183-184,C228-229,C2- 42,C300-301	Bellcore Issue 6	Level I		0.001060	10.00	.0777	0.010602	943198589.05
1129701080	Capacitor	C28,C31,C73-74,C89,C102,C105,- C120,C215,C236,C238,C285,C287- C290-295,C435,C491-494,C514	Bellcore Issue 6	Level I		0.005466	25.00	1.0020	0.136641	182961702.19
1122722780	Capacitor	C49,C243	Bellcore Issue 6	Level I		0.001598	2.00	.0234	0.003195	625953979.55
1121710090	Capacitor	C96,C481	Bellcore Issue 6	Level I		0.002539	2.00	.0372	0.005078	393852661.82
1124456080	Capacitor	C151	Bellcore Issue 6	Level I		0.001060	1.00	.0078	0.001060	943198589.05
1129722090	Capacitor	C503	Bellcore Issue 6	Level I		0.005466	1.00	.0401	0.005466	182961702.19
1129747650	Capacitor	C9-10,C54,C63,C133-134,C225,C3- 38,C360-362,C436,C458-460,C507- C509,C515	Bellcore Issue 6	Level I		0.005466	18.00	.7214	0.098381	182961702.19
1124527180	Capacitor	C71-72,C154-155,C159-160,C186-- 187,C191-192,C200-201,C205-206	Bellcore Issue 6	Level I		0.001060	14.00	.1088	0.014843	943198589.05
1129722680	Capacitor	C178,C181,C325,C428	Bellcore Issue 6	Level I		0.006031	4.00	.1769	0.024123	165815676.81
1121501680	Capacitor	C4-8,C12-13,C15,C18-21,C27,C32- 36,C43,C47,C53,C55,C62,C64,C6- 6,C68,C70,C76,C78-81,C85,C93-94- C99,C106-110,C118-119,C121-122- C126-127,C132,C135,C137,C139-- 140,C142-145,C152-153,C156-158- C161-164,C170-171,C175-177,C1- 80,C182,C188-190,C193-196,C198- C202-204,C20	Bellcore Issue 6	Level I		0.002539	199.00	3.7051	0.505265	393852661.82

AAEON Reliability Prediction Report

Part Number 9697800006
Reference Des
Date 03. 14, 2002
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00

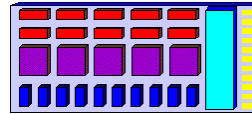


Description Top-level assembly
File Name 800A1.1.RPJ
Time 10:11 AM
Failure Rate 13.637177
MTBF 73,329

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1124501780	Capacitor	C1,C3,C84,C147,C150,C185,C263-C274,C311,C329,C330,C378-381,-C383,C388,C408-409,C411,C415,-C417,C446-447,C449,C454,C477,-C480,C511-512,C530-537	Bellcore Issue 6	Level I		0.001060	38.00	.2954	0.040288	943198589.05
1129610060	Capacitor	C246-250,C302-305,C340-345,C367-370,C373-377,C395-399,C439--442,C464,C467-470	Bellcore Issue 6	Level I		0.006031	38.00	1.6805	0.229170	165815676.81
1139710060	Capacitor	C48,C56,C59,C86,C92,C125,C165-,C172,C199,C212,C255,C260,C269-,C289,C313,C322,C331,C337,C357-,C389,C392-393,C400,C406,C416,-C421,C443,C453,C455,C476,C498-,C500	Bellcore Issue 6	Level I		0.005466	32.00	1.2825	0.174900	182961702.19
1174510080	Capacitor	CP8(*4)	Bellcore Issue 6	Level I		0.001060	1.00	.0078	0.001060	943198589.05
1174533080	Capacitor	CP2(*4)	Bellcore Issue 6	Level I		0.001060	1.00	.0078	0.001060	943198589.05
1174510180	Capacitor	CP1,CP7(*4)	Bellcore Issue 6	Level I		0.001060	8.00	.0622	0.008482	943198589.05
1174547080	Capacitor	CP3-6(*4)	Bellcore Issue 6	Level I		0.001060	16.00	.1244	0.016964	943198589.05
1119622210	Capacitor	TC1-5,TC11-15	Bellcore Issue 6	Level I		0.075338	10.00	5.5245	0.753382	13273483.15
1111615210	Capacitor	TC6,TC8,TC10	Bellcore Issue 6	Level I		0.045403	3.00	.9988	0.136210	22024783.71
1189615182	Capacitor	TC9	Bellcore Issue 6	Level I	43.40	0.004322	1.00	.0317	0.004322	231388229.14
1189615182	Capacitor	C475	Bellcore Issue 6	Level I	47.40	0.004686	1.00	.0344	0.004686	213414235.43
1189615182	Capacitor	TC17	Bellcore Issue 6	Level I	43.00	0.004286	1.00	.0314	0.004286	233295383.99
1189615182	Capacitor	TC24	Bellcore Issue 6	Level I	45.30	0.004492	1.00	.0329	0.004492	222608036.82
1189615182	Capacitor	TC28	Bellcore Issue 6	Level I	44.80	0.004447	1.00	.0326	0.004447	224874838.75
1189615182	Capacitor	TC29	Bellcore Issue 6	Level I	50.00	0.004933	1.00	.0362	0.004933	202722669.92
1189615182	Capacitor	TC36	Bellcore Issue 6	Level I	55.00	0.005432	1.00	.0398	0.005432	184100031.83
1189615182	Capacitor	TC7,TC16,TC23,TC25,TC26	Bellcore Issue 6	Level I		0.004933	5.00	.1809	0.024664	202722669.92
1189633080	Capacitor	C216,C279,C350,C352	Bellcore Issue 6	Level I		0.004933	4.00	.1447	0.019731	202722669.92
1189633080	Capacitor	C465	Bellcore Issue 6	Level I	47.20	0.004667	1.00	.0342	0.004667	214267679.32
1189633080	Capacitor	C466	Bellcore Issue 6	Level I	46.40	0.004593	1.00	.0337	0.004593	217727551.96
1231324551	Miscellaneous	Y2	Bellcore Issue 6	Level I		0.150000	1.00	1.0999	0.150000	6666666.67
1231314350	Miscellaneous	Y3	Bellcore Issue 6	Level I		0.150000	1.00	1.0999	0.150000	6666666.67
1231325050	Miscellaneous	Y5-6	Bellcore Issue 6	Level I		0.150000	2.00	2.1999	0.300000	6666666.67

AAEON Reliability Prediction Report

Part Number 9697800006
Reference Des
Date 03. 14, 2002
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00

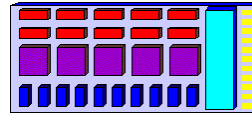


Description Top-level assembly
File Name 800A1.1.RPJ
Time 10:11 AM
Failure Rate 13.637177
MTBF 73,329

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1231332721	Miscellaneous	Y1	Bellcore Issue 6	Level I		0.150000	1.00	1.0999	0.150000	6666666.67
1231327050	Miscellaneous	Y4	Bellcore Issue 6	Level I		0.150000	1.00	1.0999	0.150000	6666666.67
1233314351	Miscellaneous	OSC1	Bellcore Issue 6	Level I		0.360000	1.00	2.6398	0.360000	2777777.78
1211100107	Inductor	L1,L3-4	Bellcore Issue 6	Level I		0.086173	3.00	1.8957	0.258519	11604581.32
1211100660	Inductor	L2	Bellcore Issue 6	Level I	45.50	0.078793	1.00	.5778	0.078793	12691477.35
1211104760	Inductor	L5-8	Bellcore Issue 6	Level I		0.002268	4.00	.0665	0.009071	440974090.03
1212308054	Inductor	FB1,FB8-9,FB26,FB30-31,FB37-39- FB46-47,FB49,FB51	Bellcore Issue 6	Level I		0.002268	13.00	.2162	0.029480	440974090.03
1212308052	Inductor	FB5,FB14,FB16,FB18,FB23	Bellcore Issue 6	Level I		0.002268	5.00	.0831	0.011339	440974090.03
1212306035	Inductor	FB19-22,FB27-29,FB35	Bellcore Issue 6	Level I		0.002268	8.00	.1330	0.018142	440974090.03
121230805E	Inductor	FB25,FB34	Bellcore Issue 6	Level I		0.002268	2.00	.0333	0.004535	440974090.03
1212306032	Inductor	FB2-3,FB6,FB52-55	Bellcore Issue 6	Level I		0.002268	7.00	.1164	0.015874	440974090.03
1212308050	Inductor	FB24,FB32-33	Bellcore Issue 6	Level I		0.002268	3.00	.0499	0.006803	440974090.03
1213106008	Inductor	BP4-10(*4)	Bellcore Issue 6	Level I		0.002268	28.00	.4656	0.063496	440974090.03
1213112008	Inductor	BP1(*4)	Bellcore Issue 6	Level I		0.002268	4.00	.0665	0.009071	440974090.03
1213160008	Inductor	RP37-38,RP41-42(*4)	Bellcore Issue 6	Level I		0.002268	16.00	.2661	0.036283	440974090.03
1213130008	Inductor	BP2-3(*4)	Bellcore Issue 6	Level I		0.002268	2.00	.0333	0.004535	440974090.03
14S3000201	Inductor	TF1-2	Bellcore Issue 6	Level I		0.136062	2.00	1.9955	0.272125	7349568.17
1314780501	Integrated Circuit	Q14	Bellcore Issue 6	Level I	51.40	0.065737	1.00	.4820	0.065737	15212148.20
1314012510	Integrated Circuit	Q11	Bellcore Issue 6	Level I		0.059366	1.00	.4353	0.059366	16844654.92
1314043210	Integrated Circuit	Q17,Q31,Q34	Bellcore Issue 6	Level I		0.059366	3.00	1.3060	0.178098	16844654.92
1314101010	Integrated Circuit	Q28	Bellcore Issue 6	Level I		0.059366	1.00	.4353	0.059366	16844654.92
1314108411	Integrated Circuit	Q23	Bellcore Issue 6	Level I	52.50	0.071171	1.00	.5219	0.071171	14050607.82
1314108411	Integrated Circuit	Q25	Bellcore Issue 6	Level I	45.20	0.041547	1.00	.3047	0.041547	24069113.13
1314108411	Integrated Circuit	Q36	Bellcore Issue 6	Level I	47.80	0.050480	1.00	.3702	0.050480	19809725.71
1314108411	Integrated Circuit	Q37	Bellcore Issue 6	Level I	62.20	0.139927	1.00	1.0261	0.139927	7146589.18
1314108312	Integrated Circuit	Q33	Bellcore Issue 6	Level I	55.40	0.087508	1.00	.6417	0.087508	11427510.28
1314108412	Integrated Circuit	Q13	Bellcore Issue 6	Level I	42.40	0.033555	1.00	.2461	0.033555	29801756.97
1314108412	Integrated Circuit	Q32	Bellcore Issue 6	Level I	42.50	0.033814	1.00	.2480	0.033814	29573138.99
1301005440	Semiconductor	D1,D5,D8	Bellcore Issue 6	Level I		0.023881	3.00	.5254	0.071643	41874327.58
1301005440	Semiconductor	D15	Bellcore Issue 6	Level I	54.50	0.027126	1.00	.1989	0.027126	36865198.90

AAEON Reliability Prediction Report

Part Number 9697800006
Reference Des
Date 03. 14, 2002
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00

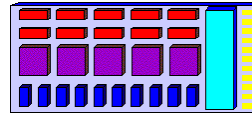


Description Top-level assembly
File Name 800A1.1.RPJ
Time 10:11 AM
Failure Rate 13.637177
MTBF 73,329

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1301005442	Semiconductor	D4,D6	Bellcore Issue 6	Level I		0.023881	2.00	.3502	0.047762	41874327.58
1301005441	Semiconductor	D14	Bellcore Issue 6	Level I	57.40	0.029388	1.00	.2155	0.029388	34026920.56
1301005441	Semiconductor	D2-3,D16-22	Bellcore Issue 6	Level I		0.023881	9.00	1.5761	0.214929	41874327.58
1300103540	Semiconductor	D7	Bellcore Issue 6	Level I		0.023881	1.00	.1751	0.023881	41874327.58
1304100540	Semiconductor	LED1	Bellcore Issue 6	Level I		0.004877	1.00	.0358	0.004877	205063180.81
1304900040	Semiconductor	LED2	Bellcore Issue 6	Level I		0.004877	1.00	.0358	0.004877	205063180.81
1315100310	Semiconductor	Q6	Bellcore Issue 6	Level I	54.60	0.181344	1.00	1.3298	0.181344	5514383.22
1315100310	Semiconductor	Q12	Bellcore Issue 6	Level I	61.90	0.221201	1.00	1.6220	0.221201	4520771.64
1315100310	Semiconductor	Q16	Bellcore Issue 6	Level I	60.10	0.210810	1.00	1.5458	0.210810	4743603.74
1315995310	Semiconductor	Q35	Bellcore Issue 6	Level I		0.159207	1.00	1.1674	0.159207	6281149.14
1315002010	Semiconductor	Q7-9,Q39-40	Bellcore Issue 6	Level I		0.079603	5.00	2.9186	0.398016	12562298.27
1315050310	Semiconductor	Q4	Bellcore Issue 6	Level I	46.10	0.142114	1.00	1.0421	0.142114	7036594.18
1315050310	Semiconductor	Q10	Bellcore Issue 6	Level I	52.60	0.171448	1.00	1.2572	0.171448	5832676.08
1315050310	Semiconductor	Q15	Bellcore Issue 6	Level I	51.90	0.168084	1.00	1.2325	0.168084	5949417.98
1315700211	Semiconductor	Q1,Q20,Q22,Q26-27,Q29-30	Bellcore Issue 6	Level I		0.079603	7.00	4.0861	0.557223	12562298.27
1315970110	Semiconductor	U1,U21,U24	Bellcore Issue 6	Level I		0.159207	3.00	3.5023	0.477620	6281149.14
1311290710	Semiconductor	Q2,Q19,Q21	Bellcore Issue 6	Level I		0.023881	3.00	.5254	0.071643	41874327.58
1310390412	Semiconductor	Q5,Q38	Bellcore Issue 6	Level I		0.023881	2.00	.3502	0.047762	41874327.58
1310222210	Semiconductor	Q18	Bellcore Issue 6	Level I		0.023881	1.00	.1751	0.023881	41874327.58
14S5A24500	Integrated Circuit	U35	Bellcore Issue 6	Level I	39.30	0.041482	1.00	.3042	0.041482	24106985.49
14S5A24500	Integrated Circuit	U36	Bellcore Issue 6	Level I	39.00	0.040873	1.00	.2997	0.040873	24465758.31
14S5A24500	Integrated Circuit	U37	Bellcore Issue 6	Level I	35.60	0.034497	1.00	.2530	0.034497	28988075.24
14S5A24500	Integrated Circuit	U38	Bellcore Issue 6	Level I	41.10	0.045297	1.00	.3322	0.045297	22076382.05
14S5A00700	Integrated Circuit	U34	Bellcore Issue 6	Level I		0.037889	1.00	.2778	0.037889	26392869.26
14S5A00600	Integrated Circuit	U39	Bellcore Issue 6	Level I	40.00	0.020623	1.00	.1512	0.020623	48490311.15
14S6200200	Integrated Circuit	U16	Bellcore Issue 6	Level I		0.136173	1.00	.9985	0.136173	7343591.05
14S8406803	Integrated Circuit	U19	Bellcore Issue 6	Level I	40.10	0.021523	1.00	.1578	0.021523	46461158.44
14S4382300	Integrated Circuit	U30	Bellcore Issue 6	Level I		0.059366	1.00	.4353	0.059366	16844654.92
14S3020101	Integrated Circuit	U4	Bellcore Issue 6	Level I	54.80	0.083873	1.00	.6150	0.083873	11922798.88
14S3020100	Integrated Circuit	U23	Bellcore Issue 6	Level I		0.059366	1.00	.4353	0.059366	16844654.92
14S4048501	Integrated Circuit	U27-28	Bellcore Issue 6	Level I		0.059366	2.00	.8706	0.118732	16844654.92

AAEON Reliability Prediction Report

Part Number 9697800006
Reference Des
Date 03. 14, 2002
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00



Description Top-level assembly
File Name 800A1.1.RPJ
Time 10:11 AM
Failure Rate 13.637177
MTBF 73,329

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
14S4070600	Integrated Circuit	U31	Bellcore Issue 6	Level I		0.059366	1.00	.4353	0.059366	16844654.92
14S1486300	Integrated Circuit	U7	Bellcore Issue 6	Level I		0.059366	1.00	.4353	0.059366	16844654.92
14S3020010	Integrated Circuit	U6	Bellcore Issue 6	Level I	44.20	0.038513	1.00	.2824	0.038513	25965237.50
14S5A01400	Integrated Circuit	U2-3,U18,U29,U33,U40	Bellcore Issue 6	Level I		0.059366	6.00	2.6119	0.356196	16844654.92
14S4021300	Integrated Circuit	U25	Bellcore Issue 6	Level I	37.40	0.022675	1.00	.1663	0.022675	44101325.59
14S4021300	Integrated Circuit	U26	Bellcore Issue 6	Level I	35.60	0.019625	1.00	.1439	0.019625	50956121.61
14S4530100	Integrated Circuit	U20	Bellcore Issue 6	Level I	63.30	0.150675	1.00	1.1049	0.150675	6636812.22
14S3128420	Integrated Circuit	U22	Bellcore Issue 6	Level I		0.059366	1.00	.4353	0.059366	16844654.92
14S4284500	Integrated Circuit	U9	Bellcore Issue 6	Level I		0.039296	1.00	.2882	0.039296	25448028.36
14S4871200	Integrated Circuit	U12	Bellcore Issue 6	Level I	44.10	0.027585	1.00	.2023	0.027585	36251483.05
14S4000600	Integrated Circuit	U13	Bellcore Issue 6	Level I	53.10	0.047063	1.00	.3451	0.047063	21248331.47
14S4255900	Integrated Circuit	U10	Bellcore Issue 6	Level I	43.90	0.027249	1.00	.1998	0.027249	36698124.26
14S4255900	Integrated Circuit	U15	Bellcore Issue 6	Level I	44.50	0.028268	1.00	.2073	0.028268	35376223.56
14S4888800	Integrated Circuit	U32	Bellcore Issue 6	Level I	65.50	0.093433	1.00	.6851	0.093433	10702829.63
14S4280102	Integrated Circuit	U5	Bellcore Issue 6	Level I	60.00	0.069400	1.00	.5089	0.069400	14409189.92
14S6334610	Integrated Circuit	U8,U14	Bellcore Issue 6	Level I		0.030598	2.00	.4487	0.061196	32681842.61
1540727280	Resistor	RP12,RP45,RP51-52	Bellcore Issue 6	Level I		0.006246	4.00	.1832	0.024984	160102772.00
15407103A0	Resistor	RP26-32,RP46-47,RP49,RP55-61	Bellcore Issue 6	Level I		0.006246	17.00	.7786	0.106182	160102772.00
1540701380	Resistor	RP33-34	Bellcore Issue 6	Level I		0.006246	2.00	.0916	0.012492	160102772.00
1540715380	Resistor	RP36,RP39	Bellcore Issue 6	Level I		0.006246	2.00	.0916	0.012492	160102772.00
1540733082	Resistor	RP62	Bellcore Issue 6	Level I		0.006246	1.00	.0458	0.006246	160102772.00
1540711180	Resistor	RP11,RP48	Bellcore Issue 6	Level I		0.006246	2.00	.0916	0.012492	160102772.00
1540775080	Resistor	RP3	Bellcore Issue 6	Level I		0.006246	1.00	.0458	0.006246	160102772.00
1540747282	Resistor	RP6,RP35,RP54,RP63	Bellcore Issue 6	Level I		0.006246	4.00	.1832	0.024984	160102772.00
1540782280	Resistor	RP4,RP10,RP40,RP43-44	Bellcore Issue 6	Level I		0.006246	5.00	.2290	0.031230	160102772.00
1540715080	Resistor	RP2,RP5	Bellcore Issue 6	Level I		0.006246	2.00	.0916	0.012492	160102772.00
1653003202	Connection	JP2-4	Bellcore Issue 6	Level I		0.003414	3.00	.0751	0.010241	292926756.90
1653010203	Connection	CN25,CN35	Bellcore Issue 6	Level I		0.011379	2.00	.1669	0.022759	87878027.07
1653007204	Connection	CN15	Bellcore Issue 6	Level I		0.007966	1.00	.0584	0.007966	125540038.67
1653004202	Connection	CN28,CN34	Bellcore Issue 6	Level I		0.004552	2.00	.0668	0.009104	219695067.68
1653013202	Connection	CN16	Bellcore Issue 6	Level I		0.014793	1.00	.1085	0.014793	67598482.36

AAEON Reliability Prediction Report

Part Number 9697800006
Reference Des
Date 03. 14, 2002
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00

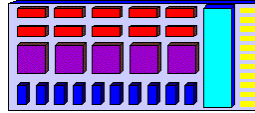


Description Top-level assembly
File Name 800A1.1.RPJ
Time 10:11 AM
Failure Rate 13.637177
MTBF 73,329

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1653009201	Connection	CN26	Bellcore Issue 6	Level I		0.010241	1.00	.0751	0.010241	97642252.30
1653005202	Connection	CN17,CN20-22	Bellcore Issue 6	Level I		0.005690	4.00	.1669	0.022759	175756054.14
1655003000	Connection	CN8-9	Bellcore Issue 6	Level I		0.001707	2.00	.0250	0.003414	585853513.81
1655305020	Connection	CN7	Bellcore Issue 6	Level I		0.002845	1.00	.0209	0.002845	351512108.28
1653006100	Connection	CN10	Bellcore Issue 6	Level I		0.003414	1.00	.0250	0.003414	292926756.90
1653003201	Connection	JP5*2	Bellcore Issue 6	Level I		0.005690	2.00	.0834	0.011379	175756054.14
1653003100	Connection	JP6,JP8,JP11	Bellcore Issue 6	Level I		0.001707	3.00	.0375	0.005121	585853513.81
1653002101	Connection	JP9,JP12	Bellcore Issue 6	Level I		0.001138	2.00	.0167	0.002276	878780270.71
1653220208	Connection	CN3,CN13	Bellcore Issue 6	Level I		0.022759	2.00	.3338	0.045518	43939013.54
1655304020	Connection	CN14	Bellcore Issue 6	Level I		0.002276	1.00	.0167	0.002276	439390135.35
1750220320	Connection	BAT1	Bellcore Issue 6	Level I		0.001138	1.00	.0083	0.001138	878780270.71
1651608990	Connection	U11	Bellcore Issue 6	Level I		0.271968	1.00	1.9943	0.271968	3676904.90
1651203291	Connection	U16	Bellcore Issue 6	Level I		0.018207	1.00	.1335	0.018207	54923766.92
1653925212	Connection	CN33	Bellcore Issue 6	Level I		0.028449	1.00	.2086	0.028449	35151210.83
1651584490	Connection	DIMM2-3	Bellcore Issue 6	Level I		0.095587	2.00	1.4019	0.191174	10461669.89
1655003000	Connection	CN1	Bellcore Issue 6	Level I		0.001707	1.00	.0125	0.001707	585853513.81
1653217202	Connection	CN2	Bellcore Issue 6	Level I		0.019345	1.00	.1419	0.019345	51692957.10
1655420020	Connection	CN5	Bellcore Issue 6	Level I		0.011379	1.00	.0834	0.011379	87878027.07
1655404020	Connection	CN12	Bellcore Issue 6	Level I		0.002276	1.00	.0167	0.002276	439390135.35
1654515302	Connection	CN18	Bellcore Issue 6	Level I		0.009672	1.00	.0709	0.009672	103385914.20
1652512200	Connection	CN23,CN27	Bellcore Issue 6	Level I		0.007966	2.00	.1168	0.015931	125540038.67
1653003100	Connection	JP10	Bellcore Issue 6	Level I		0.001707	1.00	.0125	0.001707	585853513.81
1651584490	Connection	DIMM1	Bellcore Issue 6	Level I		0.095587	1.00	.7009	0.095587	10461669.89
1655306020	Connection	CN6	Bellcore Issue 6	Level I		0.003414	1.00	.0250	0.003414	292926756.90
1653005201	Connection	CN11	Bellcore Issue 6	Level I		0.005690	1.00	.0417	0.005690	175756054.14
1655304020	Connection	CN30	Bellcore Issue 6	Level I		0.002276	1.00	.0167	0.002276	439390135.35
1655005021	Connection	CN31	Bellcore Issue 6	Level I		0.002845	1.00	.0209	0.002845	351512108.28
1654606303	Connection	CN32	Bellcore Issue 6	Level I		0.004552	1.00	.0334	0.004552	219695067.68
1654040000	Connection	CN36	Bellcore Issue 6	Level I		0.022759	1.00	.1669	0.022759	43939013.54
1752311000	Miscellaneous	F2-3	Bellcore Issue 6	Level I		0.030000	2.00	.4400	0.060000	33333333.33
1759100002	Miscellaneous	SP1	Bellcore Issue 6	Level I		0.150000	1.00	1.0999	0.150000	6666666.67

AAEON Reliability Prediction Report

Part Number 9697800006
Reference Des
Date 03. 14, 2002
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00



Description Top-level assembly
File Name 800A1.1.RPJ
Time 10:11 AM
Failure Rate 13.637177
MTBF 73,329

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1750119011	Miscellaneous	BAT1	Bellcore Issue 6	Level I		0.900000	1.00	6.5996	0.900000	1111111.11