

FWS-7300

Reliability Prediction Report

(MTBF)

Report NO : 08I070013

11-12-2008

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** FWS-7300

II . **Prediction Date:** Nov. 12, 2008

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 degree C
- Standard: Telcordia (Bellcore Issue 6) Standard

VII. Term and Definition:

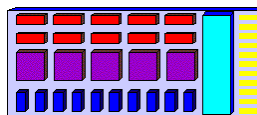
- Unit : An assembly of device.
- Duty Cycle : Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure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

- FSW-7300
 - Failure Rate: 27.147666 ppm
 - MTBF: 36,836 Hours

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 11. 12, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

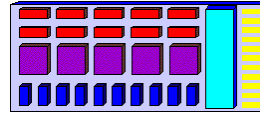


Description Top-level assembly
File Name FWS-7300_25DC.RPJ
Time 5:27 下午
Failure Rate 27.147666
MTBF 36,836

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
FWS-7300	System	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	27.147666	36,836
CFD	AP-SS968C1024-39	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	0.500000	2,000,000
Power Supply	MPI-P10H	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	7.690000	130,039
DDR2	AP-DR14D6A01G-08	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	2.125398	470,500
FWB-7300	9697730001-DIP	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	16.760106	59,665
RISER CARD		Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	0.072161	13,857,873
ASS'Y PER-T078-A10	9697T07802	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	0.072161	13,857,873

AAEON Reliability Prediction Report

Part Number AP-SS968C102439
Reference Des
Date 11. 12, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

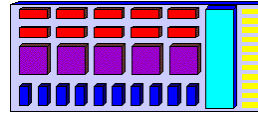


Description
File Name FWS-7300_25DC.RPJ
Time 5:27 下午
Failure Rate 0.500000
MTBF 2,000,000

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
PQI 1GB	Other	CFD	Bellcore Issue 6			0.500000	1.00	100.0000	0.500000	2000000.00

AAEON Reliability Prediction Report

Part Number MPI-P10H
Reference Des
Date 11. 12, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name FWS-7300_25DC.RPJ
Time 5:27 下午
Failure Rate 7.690000
MTBF 130,039

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
MPI-P10H	Other		Bellcore Issue 6			7.690000	1.00	100.0000	7.690000	130039.01

AAEON Reliability Prediction Report

Part Number 9697730001-DIP
Reference Des
Date 11. 12, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

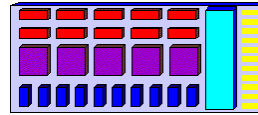


Description
File Name FWS-7300_25DC.RPJ
Time 5:27 下午
Failure Rate 16.760106
MTBF 59,665

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1653002100	Connection	CMOS1	Bellcore Issue 6	Level I		0.001138	1.00	.0068	0.001138	878780270.71
1653003101	Connection	JP1,JP3	Bellcore Issue 6	Level I		0.022759	2.00	.2716	0.045518	43939013.54
1653004200	Connection	FP1,FP2	Bellcore Issue 6	Level I		0.001138	2.00	.0136	0.002276	878780270.71
1653005200	Connection	CN2,CN5	Bellcore Issue 6	Level I		0.001138	2.00	.0136	0.002276	878780270.71
1655004011	Connection	PWR1,PWR2	Bellcore Issue 6	Level I		0.022759	2.00	.2716	0.045518	43939013.54
1653205203	Connection	COM1	Bellcore Issue 6	Level I		0.001138	1.00	.0068	0.001138	878780270.71
1655003120	Connection	FAN1,FAN2	Bellcore Issue 6	Level I		0.022759	2.00	.2716	0.045518	43939013.54
1655003010	Connection	FAN3	Bellcore Issue 6	Level I		0.001138	1.00	.0068	0.001138	878780270.71
1812850290	Resistor	VR1	Bellcore Issue 6	Level I		0.139306	1.00	.8312	0.139306	7178456.16
1655404020	Connection	ATX1	Bellcore Issue 6	Level I		0.022759	1.00	.1358	0.022759	43939013.54
1654808304	Connection	USB1	Bellcore Issue 6	Level I		0.022759	1.00	.1358	0.022759	43939013.54
1750220323	Connection	BAT1	Bellcore Issue 6	Level I		0.001138	1.00	.0068	0.001138	878780270.71
165440910B	Connection	COM2	Bellcore Issue 6	Level I		0.022759	1.00	.1358	0.022759	43939013.54
165300420F	Connection	CN3	Bellcore Issue 6	Level I		0.001138	1.00	.0068	0.001138	878780270.71
1119647191	Capacitor	EC1,EC14,EC18,EC21	Bellcore Issue 6	Level I		0.071121	4.00	1.6974	0.284485	14060484.33
111961029D	Capacitor	EC13,EC22	Bellcore Issue 6	Level I		0.071121	2.00	.8487	0.142243	14060484.33
165320820B	Connection	CN1	Bellcore Issue 6	Level I		0.001138	1.00	.0068	0.001138	878780270.71
1189682193	Capacitor	EC16,EC17,EC2,EC3,EC5,EC6	Bellcore Issue 6	Level I		0.004535	6.00	.1624	0.027212	220487045.01
1654907002	Connection	SATA2	Bellcore Issue 6	Level I		0.022759	1.00	.1358	0.022759	43939013.54
1654907003	Connection	SATA1	Bellcore Issue 6	Level I		0.022759	1.00	.1358	0.022759	43939013.54
1181627191	Capacitor	EC12,EC8	Bellcore Issue 6	Level I		0.004535	2.00	.0541	0.009071	220487045.01
1654260206	Connection	PICMG1	Bellcore Issue 6	Level I		0.001138	1.00	.0068	0.001138	878780270.71
1111610199	Capacitor	EC23,EC24	Bellcore Issue 6	Level I		0.042673	2.00	.5092	0.085346	23434140.55
1304414610	Semiconductor	PSALED1	Bellcore Issue 6	Level I		0.004877	1.00	.0291	0.004877	205063180.81
1601110201	Connection	RSW1	Bellcore Issue 6	Level I		0.001138	1.00	.0068	0.001138	878780270.71
1653212203	Connection	LCMA1	Bellcore Issue 6	Level I		0.001138	1.00	.0068	0.001138	878780270.71
175011901H	Miscellaneous	BAT1	Bellcore Issue 6	Level I		0.900000	1.00	5.3699	0.900000	1111111.11
165251220B	Connection	LAN1-LAN6	Bellcore Issue 6	Level I		0.022759	6.00	.8147	0.136553	43939013.54
14S6200800	Integrated Circuit	U15	Bellcore Issue 6	Level I		0.189134	1.00	1.1285	0.189134	5287248.08
1751300003	Semiconductor	RELAY1-RELAY8	Bellcore Issue 6	Level I		0.000000	8.00	.0000	0.000000	.00
1654232201	Connection	FG1	Bellcore Issue 6	Level I		0.022759	1.00	.1358	0.022759	43939013.54

AAEON Reliability Prediction Report

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Date 11. 12, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name FWS-7300_25DC.RPJ
Time 5:27 下午
Failure Rate 16.760106
MTBF 59,665

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A704723	Resistor	R100,R112,R113,R122,R123,R227-,R251,R289,R40-R43,R638,R639,R-714,R99,RS2-RS4	Bellcore Issue 6	Level I		0.002268	19.00	.2571	0.043086	440974090.03
105A705623	Resistor	R685	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
105A707503	Resistor	R845-R852,R878-R885	Bellcore Issue 6	Level I		0.002268	16.00	.2165	0.036283	440974090.03
105A708223	Resistor	R177,R181	Bellcore Issue 6	Level I		0.002268	2.00	.0271	0.004535	440974090.03
105A710003	Resistor	R315,R384,R385,R674,R686,R688-,R746,R772	Bellcore Issue 6	Level I		0.002268	8.00	.1082	0.018142	440974090.03
105A700133	Resistor	R216,R218,R220,R232,R238,R300-,R304,R31,R375,R462,R463,R490,-R492,R6,R63,R706,R708,R710,R7-24,R726,R728,R736-R739,R752	Bellcore Issue 6	Level I		0.002268	26.00	.3518	0.058960	440974090.03
105A700133	Resistor	R761,R762,R764,R765,R767,R781-,R782,R792,R806,R819,R821,R822-,R828,R829,R831,R832,R834,R837-,R838,R875,R900-R904	Bellcore Issue 6	Level I		0.002268	25.00	.3383	0.056693	440974090.03
105A733003	Resistor	R1,R10,R12,R13,R15,R16,R18,R3-,R32,R382,R386-R389,R4,R400,R4-12,R414,R424,R426,R436,R465,R4-69,R8,R896,R898,R9	Bellcore Issue 6	Level I		0.002268	27.00	.3653	0.061228	440974090.03
105A701033	Resistor	R207,R211,R215,R225,R235,R362-,R363,R374,R542,R678,R723,R750-,R754,R766,R777,R779,R786,R791-,R808,R817,R818	Bellcore Issue 6	Level I		0.002268	21.00	.2841	0.047622	440974090.03
105A715003	Resistor	R368	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
105A747003	Resistor	R23	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
1050700002	Resistor	R748,R751	Bellcore Issue 6	Level I		0.002268	2.00	.0271	0.004535	440974090.03
1059700001	Resistor	R142	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
105A710053	Resistor	R535	Bellcore Issue 6	Level I		0.013606	1.00	.0812	0.013606	73495681.67
105A500133	Resistor	R129,R260,R380,R467,R722,R856-,R930	Bellcore Issue 6	Level I		0.002268	7.00	.0947	0.015874	440974090.03
105A501223	Resistor	R151	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
105A503033	Resistor	R351	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
105A503323	Resistor	R236	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
105A504763	Resistor	R532,R534	Bellcore Issue 6	Level I		0.002268	2.00	.0271	0.004535	440974090.03
105A507503	Resistor	R528,R931-R933	Bellcore Issue 6	Level I		0.002268	4.00	.0541	0.009071	440974090.03

AAEON Reliability Prediction Report

Part Number 9697730001-DIP
Reference Des
Date 11. 12, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

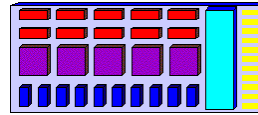


Description
File Name FWS-7300_25DC.RPJ
Time 5:27 下午
Failure Rate 16.760106
MTBF 59,665

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A510003	Resistor	R200,R201,R204,R48,R49,R636,R-872	Bellcore Issue 6	Level I		0.002268	7.00	.0947	0.015874	440974090.03
105A510033	Resistor	R149	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
105A515003	Resistor	R286,R470,R477,R479	Bellcore Issue 6	Level I		0.002268	4.00	.0541	0.009071	440974090.03
105A534003	Resistor	R283	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
105A549913	Resistor	R237,R298,R302,R497,R718,R720-R721	Bellcore Issue 6	Level I		0.002268	7.00	.0947	0.015874	440974090.03
105A701523	Resistor	R373,R495,R928	Bellcore Issue 6	Level I		0.002268	3.00	.0406	0.006803	440974090.03
105A702033	Resistor	R191,R192,R222,R74	Bellcore Issue 6	Level I		0.002268	4.00	.0541	0.009071	440974090.03
105A703903	Resistor	R480,R483,R484,R488	Bellcore Issue 6	Level I		0.002268	4.00	.0541	0.009071	440974090.03
1059704761	Resistor	R749	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
105A705133	Resistor	R876,R887	Bellcore Issue 6	Level I		0.002268	2.00	.0271	0.004535	440974090.03
105A705603	Resistor	R114,R504,R527,R73	Bellcore Issue 6	Level I		0.002268	4.00	.0541	0.009071	440974090.03
105A706233	Resistor	R679,R683,R740,R744	Bellcore Issue 6	Level I		0.002268	4.00	.0541	0.009071	440974090.03
105A720003	Resistor	R116,R209,R212,R717,R734	Bellcore Issue 6	Level I		0.002268	5.00	.0677	0.011339	440974090.03
105A747033	Resistor	R307,R364,R61	Bellcore Issue 6	Level I		0.002268	3.00	.0406	0.006803	440974090.03
105A756033	Resistor	R293,R359,R60	Bellcore Issue 6	Level I		0.002268	3.00	.0406	0.006803	440974090.03
1212308054	Inductor	FB23,FB30,FB31,FB42,FB43	Bellcore Issue 6	Level I		0.002268	5.00	.0677	0.011339	440974090.03
1231332721	Miscellaneous	Y8	Bellcore Issue 6	Level I		0.150000	1.00	.8950	0.150000	6666666.67
1121722780	Capacitor	C12,C19	Bellcore Issue 6	Level I		0.004535	2.00	.0541	0.009071	220487045.01
1124412080	Capacitor	C148	Bellcore Issue 6	Level I		0.004535	1.00	.0271	0.004535	220487045.01
1124422080	Capacitor	C84,C87,C9,C92	Bellcore Issue 6	Level I		0.004535	4.00	.1082	0.018142	220487045.01
1124510280	Capacitor	C149-C156,C161-C168,C23,C57,C-64	Bellcore Issue 6	Level I		0.004535	19.00	.5142	0.086173	220487045.01
1300001440	Semiconductor	D3,D4	Bellcore Issue 6	Level I		0.023881	2.00	.2850	0.047762	41874327.58
1124527080	Capacitor	C66,C68,C72,C73	Bellcore Issue 6	Level I		0.004535	4.00	.1082	0.018142	220487045.01
1124447080	Capacitor	C25-C28	Bellcore Issue 6	Level I		0.004535	4.00	.1082	0.018142	220487045.01
1124547180	Capacitor	C117,C189-C192,C82	Bellcore Issue 6	Level I		0.004535	6.00	.1624	0.027212	220487045.01
1124556180	Capacitor	C40	Bellcore Issue 6	Level I		0.004535	1.00	.0271	0.004535	220487045.01
1540700080	Resistor	RN16	Bellcore Issue 6	Level I		0.006246	1.00	.0373	0.006246	160102772.00
1129747650	Capacitor	C146,C38,C53,C55	Bellcore Issue 6	Level I		0.004535	4.00	.1082	0.018142	220487045.01
1540701380	Resistor	RN17	Bellcore Issue 6	Level I		0.006246	1.00	.0373	0.006246	160102772.00

AAEON Reliability Prediction Report

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Date 11. 12, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

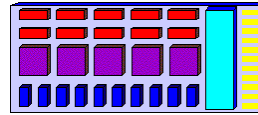


Description
File Name FWS-7300_25DC.RPJ
Time 5:27 下午
Failure Rate 16.760106
MTBF 59,665

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A708229	Resistor	R103,R105,R109,R110,R146,R153-,R24,R360,R520,R521,R524,R536,-R546,R547,R560,R567,R596,R603-R87,R88	Bellcore Issue 6	Level I		0.002268	20.00	.2706	0.045354	440974090.03
105A700139	Resistor	R101,R548,R559,R590,R637,R796-R797,R798,R836,R97	Bellcore Issue 6	Level I		0.002268	10.00	.1353	0.022677	440974090.03
105A704729	Resistor	R22,R55,R56,R577,R858,R861,R8-62,R866	Bellcore Issue 6	Level I		0.002268	8.00	.1082	0.018142	440974090.03
105A700009	Resistor	R119,R121,R243,R244,R47,R50,R-523,R525,R526,R531,R554,R555,R-562,R572,R576,R579,R58,R581,R6-21,R795,R859	Bellcore Issue 6	Level I		0.002268	22.00	.2977	0.049890	440974090.03
105A701039	Resistor	R104,R21,R28,R493,R494,R522,R-530,R551,R558,R574,R640,R641,R-670-R672,R839,R910,R911	Bellcore Issue 6	Level I		0.002268	18.00	.2435	0.040819	440974090.03
105A710009	Resistor	R106-R108,R514,R519,R544	Bellcore Issue 6	Level I		0.002268	6.00	.0812	0.013606	440974090.03
105A703309	Resistor	R134,R135,R137,R139,R140,R143-,R145,R150,R152,R155,R157,R159-,R161,R162,R164,R165,R168-R170-,R172,R173,R176,R178,R180	Bellcore Issue 6	Level I		0.002268	24.00	.3247	0.054425	440974090.03
105A703309	Resistor	R182-R185,R20,R203,R59,R860	Bellcore Issue 6	Level I		0.002268	8.00	.1082	0.018142	440974090.03
105A701009	Resistor	R376,R377	Bellcore Issue 6	Level I		0.002268	2.00	.0271	0.004535	440974090.03
105A702229	Resistor	R481,R182,R485,R486,R498,R499	Bellcore Issue 6	Level I		0.002268	6.00	.0812	0.013606	440974090.03
1129715090	Capacitor	C107,C108	Bellcore Issue 6	Level I		0.004535	2.00	.0541	0.009071	220487045.01
1129722680	Capacitor	C120,C130,C132,C136-C140,C16,-C29,C45-C50	Bellcore Issue 6	Level I		0.004535	16.00	.4330	0.072567	220487045.01
105A702263	Resistor	R206,R77,R89	Bellcore Issue 6	Level I		0.002268	3.00	.0406	0.006803	440974090.03
105A568003	Resistor	R90	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
105A545323	Resistor	R175	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
105A547503	Resistor	R583	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
105A524963	Resistor	R111,R44,R52,R584,R76	Bellcore Issue 6	Level I		0.002268	5.00	.0677	0.011339	440974090.03
121230603C	Inductor	FB11,FB41,FB44-FB46,FB6-FB9	Bellcore Issue 6	Level I		0.002268	9.00	.1218	0.020409	440974090.03
1122622660	Capacitor	C51	Bellcore Issue 6	Level I		0.004535	1.00	.0271	0.004535	220487045.01
106B501031	Resistor	RT1-RT3	Bellcore Issue 6	Level I		0.011379	3.00	.2037	0.034138	87878027.07
105A513723	Resistor	R171	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
1124518280	Capacitor	C42	Bellcore Issue 6	Level I		0.004535	1.00	.0271	0.004535	220487045.01

AAEON Reliability Prediction Report

Part Number 9697730001-DIP
Reference Des
Date 11. 12, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name FWS-7300_25DC.RPJ
Time 5:27 下午
Failure Rate 16.760106
MTBF 59,665

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1654262300	Connection	MPC11	Bellcore Issue 6	Level I		0.001138	1.00	.0068	0.001138	878780270.71
1189633181	Capacitor	C102-C104,C109,C135	Bellcore Issue 6	Level I		0.004535	5.00	.1353	0.022677	220487045.01
105A522663	Resistor	R190	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
1314108413	Integrated Circuit	U20	Bellcore Issue 6	Level I	19.80	0.230894	1.00	1.3776	0.230894	4330988.02
105A549969	Resistor	R561,R565,R566,R568,R569,R571- R573,R575,R578,R580,R582,R586- R588,R591,R593,R595,R597,R600- R602,R605,R606,R623	Bellcore Issue 6	Level I		0.002268	22.00	.2977	0.049890	440974090.03
105A501039	Resistor	R353-R358,R550,R598,R601,R604- R656,R657,R94,R95	Bellcore Issue 6	Level I		0.002268	14.00	.1894	0.031748	440974090.03
121230603H	Inductor	FB10,FB13,FB14,FB2,FB28,FB29,- FB3,FB32,FB33,FB36-FB39,FB5	Bellcore Issue 6	Level I		0.002268	14.00	.1894	0.031748	440974090.03
1653925216	Connection	CFD1	Bellcore Issue 6	Level I		0.001138	1.00	.0068	0.001138	878780270.71
14S6334605	Integrated Circuit	U41,U42,U47,U48	Bellcore Issue 6	Level I		0.030598	4.00	.7303	0.122392	32681842.61
1121701080	Capacitor	C106,C118,C14,C141-C144,C147,- C20,C35,C39,C4,C52,C54,C77-C81- C90	Bellcore Issue 6	Level I		0.004535	20.00	.5412	0.090708	220487045.01
105A715009	Resistor	R81,R86	Bellcore Issue 6	Level I		0.002268	2.00	.0271	0.004535	440974090.03
105A705609	Resistor	R102,R607-R620,R624-R635,R642- R655,R658-R669	Bellcore Issue 6	Level I		0.002268	53.00	.7171	0.120188	440974090.03
105A515009	Resistor	R35-R39,R487	Bellcore Issue 6	Level I		0.002268	6.00	.0812	0.013606	440974090.03
105A701059	Resistor	R138,R857	Bellcore Issue 6	Level I		0.002268	2.00	.0271	0.004535	440974090.03
105A705139	Resistor	R799	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
105A510009	Resistor	R195,R508,R53,R587,R71	Bellcore Issue 6	Level I		0.002268	5.00	.0677	0.011339	440974090.03
1301005444	Semiconductor	D12,D13,D7,D8	Bellcore Issue 6	Level I		0.023881	4.00	.5699	0.095524	41874327.58
1129722060	Capacitor	C69	Bellcore Issue 6	Level I		0.004535	1.00	.0271	0.004535	220487045.01
1124522881	Capacitor	C89	Bellcore Issue 6	Level I		0.004535	1.00	.0271	0.004535	220487045.01
105A554963	Resistor	R131,R507,R51,R65,R84	Bellcore Issue 6	Level I		0.002268	5.00	.0677	0.011339	440974090.03
1189615187	Capacitor	C110,C131,C15,C30,C99	Bellcore Issue 6	Level I		0.004535	5.00	.1353	0.022677	220487045.01
105A532413	Resistor	R167	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
1129610051	Capacitor	TC1,TC100-TC111,TC12-TC14,TC- 16,TC19,TC2,TC20-TC73,TC3-TC7- TC75-TC99	Bellcore Issue 6	Level I		0.004535	102.00	2.7602	0.462612	220487045.01
105A525503	Resistor	R496	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
105A524903	Resistor	R439,R448,R451,R460	Bellcore Issue 6	Level I		0.002268	4.00	.0541	0.009071	440974090.03

AAEON Reliability Prediction Report

Part Number 9697730001-DIP
Reference Des
Date 11. 12, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name FWS-7300_25DC.RPJ
Time 5:27 下午
Failure Rate 16.760106
MTBF 59,665

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
14S2200900	Integrated Circuit	U1	Bellcore Issue 6	Level I		0.059366	1.00	.3542	0.059366	16844654.92
1300414844	Semiconductor	D1,D10,D2,D5	Bellcore Issue 6	Level I		0.023881	4.00	.5699	0.095524	41874327.58
175910000A	Miscellaneous	BZ1	Bellcore Issue 6	Level I		0.150000	1.00	.8950	0.150000	6666666.67
14S5A00702	Integrated Circuit	U36	Bellcore Issue 6	Level I		0.039296	1.00	.2345	0.039296	25448028.36
1301003440	Semiconductor	D6	Bellcore Issue 6	Level I		0.023881	1.00	.1425	0.023881	41874327.58
105A580663	Resistor	R515,R516	Bellcore Issue 6	Level I		0.002268	2.00	.0271	0.004535	440974090.03
14S4653700	Integrated Circuit	U21	Bellcore Issue 6	Level I	16.80	0.190024	1.00	1.1338	0.190024	5262502.45
105A507533	Resistor	R166	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
105A535713	Resistor	R594	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
105A520033	Resistor	R160	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
105A554923	Resistor	R174	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
105A510513	Resistor	R592	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
14S4621800	Integrated Circuit	U12	Bellcore Issue 6	Level I	19.90	0.232384	1.00	1.3865	0.232384	4303226.86
14S3420600	Integrated Circuit	U11	Bellcore Issue 6	Level I	45.90	1.089420	1.00	6.5001	1.089420	917919.85
121230603T	Inductor	FB16-FB19,FB21,FB22	Bellcore Issue 6	Level I		0.002268	6.00	.0812	0.013606	440974090.03
121230805Z	Inductor	FB12,FB15,FB4	Bellcore Issue 6	Level I		0.002268	3.00	.0406	0.006803	440974090.03
121110010P	Inductor	L1,L41,L6,L7,L9	Bellcore Issue 6	Level I		0.086173	5.00	2.5708	0.430864	11604581.32
105A522103	Resistor	R54,R72	Bellcore Issue 6	Level I		0.002268	2.00	.0271	0.004535	440974090.03
14S4650601	Integrated Circuit	U17	Bellcore Issue 6	Level I		0.059366	1.00	.3542	0.059366	16844654.92
1189622189	Capacitor	C1,C100,C101,C105,C22,C24,C6	Bellcore Issue 6	Level I		0.004535	7.00	.1894	0.031748	220487045.01
14S9108500	Integrated Circuit	U39	Bellcore Issue 6	Level I		0.059366	1.00	.3542	0.059366	16844654.92
1121501690	Capacitor	BC10,BC100-BC103,BC107,BC110-BC111,BC116-BC296,BC13-BC19-BC21-BC29,BC298,BC3,BC30,BC307-BC322,BC31,BC32,BC33-BC99-BC4	Bellcore Issue 6	Level I		0.004535	294.00	7.9559	1.333412	220487045.01
1121501690	Capacitor	BC5-BC9	Bellcore Issue 6	Level I		0.004535	5.00	.1353	0.022677	220487045.01
123131435B	Miscellaneous	Y1	Bellcore Issue 6	Level I		0.150000	1.00	.8950	0.150000	6666666.67
1231325058	Miscellaneous	Y2-Y7	Bellcore Issue 6	Level I		0.150000	6.00	5.3699	0.900000	6666666.67
14S3500700	Integrated Circuit	T1-T6	Bellcore Issue 6	Level I		0.059366	6.00	2.1253	0.356196	16844654.92
105A517413	Resistor	R704	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
1315344310	Integrated Circuit	U16	Bellcore Issue 6	Level I		0.059366	1.00	.3542	0.059366	16844654.92

AAEON Reliability Prediction Report

Part Number 9697730001-DIP
Reference Des
Date 11. 12, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name FWS-7300_25DC.RPJ
Time 5:27 下午
Failure Rate 16.760106
MTBF 59,665

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
14S9951500	Integrated Circuit	U7	Bellcore Issue 6	Level I		0.059366	1.00	.3542	0.059366	16844654.92
14S418010B	Integrated Circuit	U8	Bellcore Issue 6	Level I	43.80	0.370920	1.00	2.2131	0.370920	2695999.37
14S4254103	Integrated Circuit	U19	Bellcore Issue 6	Level I	24.40	0.147959	1.00	.8828	0.147959	6758632.66
14S4254103	Integrated Circuit	U23	Bellcore Issue 6	Level I	25.40	0.155556	1.00	.9281	0.155556	6428565.73
14S4254103	Integrated Circuit	U22	Bellcore Issue 6	Level I	24.10	0.145744	1.00	.8696	0.145744	6861335.64
14S4254103	Integrated Circuit	U18	Bellcore Issue 6	Level I	23.20	0.139274	1.00	.8310	0.139274	7180113.16
14S4060002	Integrated Circuit	U6	Bellcore Issue 6	Level I		0.039296	1.00	.2345	0.039296	25448028.36
1124727380	Capacitor	C36	Bellcore Issue 6	Level I		0.004535	1.00	.0271	0.004535	220487045.01
1121647480	Capacitor	C11,C184,C96	Bellcore Issue 6	Level I		0.004535	3.00	.0812	0.013606	220487045.01
1129647650	Capacitor	C17,C193,C98	Bellcore Issue 6	Level I		0.004535	3.00	.0812	0.013606	220487045.01
121230603Z	Inductor	FB20	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
1300584940	Semiconductor	D9	Bellcore Issue 6	Level I		0.023881	1.00	.1425	0.023881	41874327.58
1752310000	Miscellaneous	FS1-FS5	Bellcore Issue 6	Level I		0.030000	5.00	.8950	0.150000	33333333.33
1211106802	Inductor	L10	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03
1124515880	Capacitor	C43	Bellcore Issue 6	Level I		0.004535	1.00	.0271	0.004535	220487045.01
1050512164	Resistor	R141,R144	Bellcore Issue 6	Level I		0.002268	2.00	.0271	0.004535	440974090.03
14S4871204	Integrated Circuit	U45	Bellcore Issue 6	Level I		0.039296	1.00	.2345	0.039296	25448028.36
1315888010	Semiconductor	Q11,Q2,Q27,Q3-Q5	Bellcore Issue 6	Level I		0.079603	6.00	2.8497	0.477620	12562298.27
1121533480	Capacitor	C37	Bellcore Issue 6	Level I		0.004535	1.00	.0271	0.004535	220487045.01
1311138610	Semiconductor	Q7-Q10	Bellcore Issue 6	Level I		0.023881	4.00	.5699	0.095524	41874327.58
1315668012	Semiconductor	U9,U10	Bellcore Issue 6	Level I		0.079603	2.00	.9499	0.159207	12562298.27
14S9661200	Integrated Circuit	U35	Bellcore Issue 6	Level I		0.059366	1.00	.3542	0.059366	16844654.92
1315889611	Semiconductor	U37,U38	Bellcore Issue 6	Level I		0.079603	2.00	.9499	0.159207	12562298.27
14S82032A3	Integrated Circuit	U34	Bellcore Issue 6	Level I		0.059366	1.00	.3542	0.059366	16844654.92
1214309006	Inductor	L13-L40,L3,L4	Bellcore Issue 6	Level I		0.002268	30.00	.4059	0.068031	440974090.03
16515A099B	Connection	DIMM1	Bellcore Issue 6	Level I		0.001138	1.00	.0068	0.001138	878780270.71
16515A099C	Connection	DIMM2	Bellcore Issue 6	Level I		0.001138	1.00	.0068	0.001138	878780270.71
1315889612	Semiconductor	Q24,Q6	Bellcore Issue 6	Level I		0.159207	2.00	1.8998	0.318413	6281149.14
1122710091	Capacitor	TC10,TC74,TC8,TC9	Bellcore Issue 6	Level I		0.004535	4.00	.1082	0.018142	220487045.01
14S5974741	Integrated Circuit	U29	Bellcore Issue 6	Level I		0.039296	1.00	.2345	0.039296	25448028.36
105A718033	Resistor	R64	Bellcore Issue 6	Level I		0.002268	1.00	.0135	0.002268	440974090.03

