

FWS-2150

Reliability Prediction Report

(MTBF)

Report NO : 08I070002

4-1-2008

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** FWS-2150

II . **Prediction Date:** Apr. 1th,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: 25.2 degree C
- Standard: Telcordia (Bellcore) Standard

VII. **Term and Definition:**

- Unit : An assembly of device.
- Duty Cycle : Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure rate is to be calculated based the selected Calculation models. The multiplier is 1,000,000.
- MTBF : MTBF is always specified in hours.

VIII. **Prediction Result:**

- FWS-2150
 - Failure Rate: 19.346579 ppm
 - MTBF: 51,689 Hours
- 1757306036 (Adaptor.100/240V.AC.19V/3.16A.60W.ENG.3A-621DA19)
 - MTBF: 190,606 Hours

AAEON Reliability Prediction Report

Part Number
Reference Des
Date 04. 1, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.20



Description Top-level assembly
File Name FWS-2150.RPJ
Time 9:58 上午
Failure Rate 19.346579
MTBF 51,689

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-FWS-2150E5-A600-A10-00		Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	19.346579	51,689
ASS'Y FWB-2150-A10	9697215001-DIP	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	19.346579	51,689

AAEON Reliability Prediction Report

Part Number 9697215001-DIP
Reference Des
Date 04. 1, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.20



Description
File Name FWS-2150.RPJ
Time 9:58 上午
Failure Rate 19.346579
MTBF 51,689

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1231232720	Miscellaneous	Y2	Bellcore Issue 6	Level I		0.150000	1.00	.7753	0.150000	6666666.67
1759100002	Miscellaneous	BZ1	Bellcore Issue 6	Level I		0.150000	1.00	.7753	0.150000	6666666.67
1653002100	Connection	JP1,JP2	Bellcore Issue 6	Level I		0.001150	2.00	.0119	0.002300	869650184.19
1653003100	Connection	JP3	Bellcore Issue 6	Level I		0.001725	1.00	.0089	0.001725	579766789.46
1653005200	Connection	USB2	Bellcore Issue 6	Level I		0.005749	1.00	.0297	0.005749	173930036.84
1655004011	Connection	PWR2,PWR3	Bellcore Issue 6	Level I		0.022998	2.00	.2377	0.045996	43482509.21
1653205203	Connection	COM2	Bellcore Issue 6	Level I		0.005749	1.00	.0297	0.005749	173930036.84
1211101001	Inductor	L2,L3	Bellcore Issue 6	Level I		0.086511	2.00	.8943	0.173022	11559221.52
1655003010	Connection	FAN1-FAN3	Bellcore Issue 6	Level I		0.001725	3.00	.0267	0.005174	579766789.46
1231125051	Miscellaneous	Y1	Bellcore Issue 6	Level I		0.150000	1.00	.7753	0.150000	6666666.67
1654808304	Connection	USB1	Bellcore Issue 6	Level I		0.022998	1.00	.1189	0.022998	43482509.21
1169639190	Capacitor	EC10,EC14,EC17,EC8	Bellcore Issue 6	Level I		0.005473	4.00	.1132	0.021891	182723005.05
165440910B	Connection	COM1	Bellcore Issue 6	Level I		0.022998	1.00	.1189	0.022998	43482509.21
1119612291	Capacitor	EC21,EC3,EC6	Bellcore Issue 6	Level I		0.071868	3.00	1.1144	0.215604	13914402.95
165320820B	Connection	CN2	Bellcore Issue 6	Level I		0.009199	1.00	.0475	0.009199	108706273.02
16515C0492	Connection	DDR11	Bellcore Issue 6	Level I		0.137987	1.00	.7132	0.137987	7247084.87
1654907003	Connection	SATA1,SATA2	Bellcore Issue 6	Level I		0.004025	2.00	.0416	0.008049	248471481.20
1111610199	Capacitor	EC1,EC19,EC22,EC24,EC5	Bellcore Issue 6	Level I		0.043121	5.00	1.1144	0.215604	23190671.58
111961029F	Capacitor	EC11-EC13,EC25	Bellcore Issue 6	Level I		0.071868	4.00	1.4859	0.287472	13914402.95
121110010Y	Inductor	L1	Bellcore Issue 6	Level I		0.002277	1.00	.0118	0.002277	439250417.95
1112647110	Capacitor	EC15,EC16,EC7,EC9	Bellcore Issue 6	Level I		0.071868	4.00	1.4859	0.287472	13914402.95
1314780502	Integrated Circuit	Q37	Bellcore Issue 6	Level I	51.70	1.506183	1.00	7.7853	1.506183	663929.89
1181647110	Capacitor	EC20	Bellcore Issue 6	Level I		0.004553	1.00	.0235	0.004553	219625208.97
165322220E	Connection	IDE1	Bellcore Issue 6	Level I		0.025298	1.00	.1308	0.025298	39529553.83
1601110201	Connection	RSW1	Bellcore Issue 6	Level I		0.022998	1.00	.1189	0.022998	43482509.21
1751300002	Relay	RELAY1-RELAY4	Bellcore Issue 6	Level I		0.318725	4.00	6.5898	1.274899	3137502.99
175011901H	Miscellaneous	BAT1_1	Bellcore Issue 6	Level I		0.900000	1.00	4.6520	0.900000	1111111.11
1304100250	Semiconductor	LED1-LED5,LED7	Bellcore Issue 6	Level I		0.004966	6.00	.1540	0.029799	201349338.03
1304400150	Semiconductor	LED6	Bellcore Issue 6	Level I		0.004966	1.00	.0257	0.004966	201349338.03
1652508218	Connection	LAN1-LAN5	Bellcore Issue 6	Level I		0.004600	5.00	.1189	0.022998	217412546.05
1652506110	Connection	CN3	Bellcore Issue 6	Level I		0.003450	1.00	.0178	0.003450	289883394.73

AAEON Reliability Prediction Report

Part Number 9697215001-DIP
Reference Des
Date 04. 1, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.20



Description
File Name FWS-2150.RPJ
Time 9:58 上午
Failure Rate 19.346579
MTBF 51,689

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A501033	Resistor	R45	Bellcore Issue 6	Level I		0.002277	1.00	.0118	0.002277	439250417.95
105A700003	Resistor	R122,R135,R136,R151,R154,R174-R20,R225,R232,R237,R242,R243,-R260,R282,R288,R347,R367,R375-R378,R395,R439,R469-R472	Bellcore Issue 6	Level I		0.002277	25.00	.2942	0.056915	439250417.95
105A700003	Resistor	R49,R55,R579,R581,R582,R6,R86-RS6	Bellcore Issue 6	Level I		0.002277	8.00	.0941	0.018213	439250417.95
105A701053	Resistor	R350,R354,R386,R444,R477-R480	Bellcore Issue 6	Level I		0.002277	8.00	.0941	0.018213	439250417.95
105A701503	Resistor	R342	Bellcore Issue 6	Level I		0.002277	1.00	.0118	0.002277	439250417.95
105A702203	Resistor	R124,R126-R231,R153,R155,R158-R160,R162,R163,R186,R202,R226-R250,R290,R291,R293,R464,R47,-R48,R546,R57,R571,R72,R87	Bellcore Issue 6	Level I		0.002277	29.00	.3413	0.066022	439250417.95
105A702203	Resistor	R88,R93	Bellcore Issue 6	Level I		0.002277	2.00	.0235	0.004553	439250417.95
105A702223	Resistor	R248,R398,RS3,RS4	Bellcore Issue 6	Level I		0.002277	4.00	.0471	0.009106	439250417.95
105A703303	Resistor	R113,R132,R133,R366,R368MR373-R374,R569,R570,R89-R92	Bellcore Issue 6	Level I		0.002277	13.00	.1530	0.029596	439250417.95
105A703323	Resistor	R408,R431	Bellcore Issue 6	Level I		0.002277	2.00	.0235	0.004553	439250417.95
105A704723	Resistor	R118,R125,R196,R25,R253,R26-R28,R289,R29,R30,R306,R326,R327-R334,R348,R357,R381,R391-R393-R428,R429,R54,R574-R578	Bellcore Issue 6	Level I		0.002277	29.00	.3413	0.066022	439250417.95
105S704723	Resistor	R65,R9,RS1,RS2	Bellcore Issue 6	Level I		0.002277	4.00	.0471	0.009106	439250417.95
105A705623	Resistor	R277,R300	Bellcore Issue 6	Level I		0.002277	2.00	.0235	0.004553	439250417.95
105A708223	Resistor	RS5	Bellcore Issue 6	Level I		0.002277	1.00	.0118	0.002277	439250417.95
105A710003	Resistor	R10,R11,R377,R400,R440-R443	Bellcore Issue 6	Level I		0.002277	8.00	.0941	0.018213	439250417.95
105A700133	Resistor	R117,R141,R195,R227,R247,R272-R275,R284-R286,R292,R304,R312-R315,R344,R355,R422,R43,R437,-R44,R456,R458,R461,R462	Bellcore Issue 6	Level I		0.002277	24.00	.2824	0.054639	439250417.95
105A700133	Resistor	R465-R468,R504,R509,R510,R515-R539,R541-R545,R58,R64,R66,R67,R70,R71,R77,R78	Bellcore Issue 6	Level I		0.002277	22.00	.2589	0.050085	439250417.95
105A733003	Resistor	R1,R106,R13,R18,R19,R21,R23,R230,R24,R249,R34,R4,R53,R7	Bellcore Issue 6	Level I		0.002277	14.00	.1647	0.031872	439250417.95
105A701033	Resistor	R120,R231,R233-R235,R240,R244-R278,R333,R385,R436,R46,R50,R52,R528,R529,R547	Bellcore Issue 6	Level I		0.002277	17.00	.2000	0.038702	439250417.95

AAEON Reliability Prediction Report

Part Number 9697215001-DIP
Reference Des
Date 04. 1, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.20

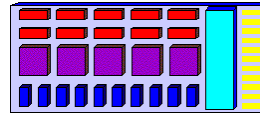


Description
File Name FWS-2150.RPJ
Time 9:58 上午
Failure Rate 19.346579
MTBF 51,689

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A715003	Resistor	R14-R17,R2,R22,R35-R37,R5,R51	Bellcore Issue 6	Level I		0.002277	11.00	.1294	0.025043	439250417.95
105A701533	Resistor	R421,R457,R459,R460,R463	Bellcore Issue 6	Level I		0.002277	5.00	.0588	0.011383	439250417.95
105A727003	Resistor	R188	Bellcore Issue 6	Level I		0.002277	1.00	.0118	0.002277	439250417.95
105A747003	Resistor	R170,R236,R273,R369	Bellcore Issue 6	Level I		0.002277	4.00	.0471	0.009106	439250417.95
1059700001	Resistor	R107,R147,R168,R401	Bellcore Issue 6	Level I		0.002277	4.00	.0471	0.009106	439250417.95
105A710053	Resistor	R62	Bellcore Issue 6	Level I		0.013660	1.00	.0706	0.013660	73208402.99
105A500133	Resistor	R148,R164,R280,R38,R39,R474,R-75	Bellcore Issue 6	Level I		0.002277	7.00	.0824	0.015936	439250417.95
105A501223	Resistor	R191,R194,R371	Bellcore Issue 6	Level I		0.002277	3.00	.0353	0.006830	439250417.95
105A501523	Resistor	R200	Bellcore Issue 6	Level I		0.002277	1.00	.0118	0.002277	439250417.95
105A503033	Resistor	R189,R435	Bellcore Issue 6	Level I		0.002277	2.00	.0235	0.004553	439250417.95
105A505103	Resistor	R259,R261,R262,R276,R534-R537-R81-R84	Bellcore Issue 6	Level I		0.002277	12.00	.1412	0.027319	439250417.95
105A507503	Resistor	R473,R476,R489-R493,R498-R503	Bellcore Issue 6	Level I		0.002277	13.00	.1530	0.029596	439250417.95
105A510003	Resistor	R185,R224	Bellcore Issue 6	Level I		0.002277	2.00	.0235	0.004553	439250417.95
105A510703	Resistor	R548	Bellcore Issue 6	Level I		0.002277	1.00	.0118	0.002277	439250417.95
105A515003	Resistor	R264,R265,R3,R413,R8	Bellcore Issue 6	Level I		0.002277	5.00	.0588	0.011383	439250417.95
105A549963	Resistor	R177-R184,R204-R215	Bellcore Issue 6	Level I		0.002277	20.00	.2353	0.045532	439250417.95
105A702033	Resistor	R115,R203,R349,R85	Bellcore Issue 6	Level I		0.002277	4.00	.0471	0.009106	439250417.95
105A704733	Resistor	R361,R410,R432	Bellcore Issue 6	Level I		0.002277	3.00	.0353	0.006830	439250417.95
105A706803	Resistor	R356	Bellcore Issue 6	Level I		0.002277	1.00	.0118	0.002277	439250417.95
105A747033	Resistor	R152,R221,R532	Bellcore Issue 6	Level I		0.002277	3.00	.0353	0.006830	439250417.95
105A756033	Resistor	R222,R533	Bellcore Issue 6	Level I		0.002277	2.00	.0235	0.004553	439250417.95
105A768003	Resistor	R254,R424	Bellcore Issue 6	Level I		0.002277	2.00	.0235	0.004553	439250417.95
105A504723	Resistor	R165,R331	Bellcore Issue 6	Level I		0.002277	2.00	.0235	0.004553	439250417.95
1212306030	Inductor	FB33,FB34,FB36-FB38,FB41-FB43-FB45,PB1,PB3	Bellcore Issue 6	Level I		0.002277	11.00	.1294	0.025043	439250417.95
1212308054	Inductor	FB20,FB21,FB3,FB46	Bellcore Issue 6	Level I		0.002277	4.00	.0471	0.009106	439250417.95
1121722650	Capacitor	C223,C64	Bellcore Issue 6	Level I		0.004553	2.00	.0471	0.009106	219625208.97
1122747880	Capacitor	C214	Bellcore Issue 6	Level I		0.004553	1.00	.0235	0.004553	219625208.97
1124501780	Capacitor	BC52,C121,C123-C127,C254,C70,-C80,C95	Bellcore Issue 6	Level I		0.004553	11.00	.2589	0.050085	219625208.97
1124405080	Capacitor	C133,C257	Bellcore Issue 6	Level I		0.004553	2.00	.0471	0.009106	219625208.97

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Environment GF, GU - Ground Fixed, Uncontrolled
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Time 9:58 上午
Failure Rate 19.346579
MTBF 51,689

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1124510280	Capacitor	C100-C102,C113-C118,C136-C139-,C172,C182,C183,C205,C206,C230-,C69,C71,C92,C98,C99	Bellcore Issue 6	Level I		0.004553	24.00	.5648	0.109277	219625208.97
1300001440	Semiconductor	D15,D16	Bellcore Issue 6	Level I		0.024019	2.00	.2483	0.048037	41634486.10
1124527080	Capacitor	BC39,BC40	Bellcore Issue 6	Level I		0.004553	2.00	.0471	0.009106	219625208.97
1124527180	Capacitor	C106,C109	Bellcore Issue 6	Level I		0.004553	2.00	.0471	0.009106	219625208.97
1124433080	Capacitor	C129-C132	Bellcore Issue 6	Level I		0.004553	4.00	.0941	0.018213	219625208.97
1124533280	Capacitor	C237	Bellcore Issue 6	Level I		0.004553	1.00	.0235	0.004553	219625208.97
1300003240	Semiconductor	D5	Bellcore Issue 6	Level I		0.024019	1.00	.1241	0.024019	41634486.10
1124568180	Capacitor	C74	Bellcore Issue 6	Level I		0.004553	1.00	.0235	0.004553	219625208.97
1300034040	Semiconductor	D11,D12	Bellcore Issue 6	Level I		0.024019	2.00	.2483	0.048037	41634486.10
1300283540	Semiconductor	D6	Bellcore Issue 6	Level I		0.024019	1.00	.1241	0.024019	41634486.10
1300414841	Semiconductor	D7	Bellcore Issue 6	Level I		0.024019	1.00	.1241	0.024019	41634486.10
1301005440	Semiconductor	D10	Bellcore Issue 6	Level I		0.024019	1.00	.1241	0.024019	41634486.10
1310222210	Semiconductor	Q1,Q11,Q20,Q21,Q24,Q4,Q5,Q50,-Q52-Q54,Q57,Q6,Q7	Bellcore Issue 6	Level I		0.024019	14.00	1.7381	0.336260	41634486.10
1124515080	Capacitor	C209,C39,C42	Bellcore Issue 6	Level I		0.004553	3.00	.0706	0.013660	219625208.97
14S3000300	Inductor	TF1-TF5	Bellcore Issue 6	Level I		0.136596	5.00	3.5302	0.682982	7320840.30
1651203291	Connection	U20	Bellcore Issue 6	Level I		0.018398	1.00	.0951	0.018398	54353136.51
14S4911216	Integrated Circuit	U23	Bellcore Issue 6	Level I		0.039760	1.00	.2055	0.039760	25150780.80
1301005442	Semiconductor	D14	Bellcore Issue 6	Level I		0.024019	1.00	.1241	0.024019	41634486.10
105A566503	Resistor	R199	Bellcore Issue 6	Level I		0.002277	1.00	.0118	0.002277	439250417.95
1212308057	Inductor	FB10-FB14	Bellcore Issue 6	Level I		0.002277	5.00	.0588	0.011383	439250417.95
1129610260	Capacitor	TC35-TC39	Bellcore Issue 6	Level I		0.004553	5.00	.1177	0.022766	219625208.97
14S5A01400	Integrated Circuit	U30,U36	Bellcore Issue 6	Level I		0.060240	2.00	.6227	0.120481	16600154.56
14S5A01430	Integrated Circuit	U18	Bellcore Issue 6	Level I		0.039760	1.00	.2055	0.039760	25150780.80
105A520003	Resistor	R256,R407,R430	Bellcore Issue 6	Level I		0.002277	3.00	.0353	0.006830	439250417.95
105A505633	Resistor	R112	Bellcore Issue 6	Level I		0.002277	1.00	.0118	0.002277	439250417.95
1211104760	Inductor	L16,L17	Bellcore Issue 6	Level I		0.086511	2.00	.8943	0.173022	11559221.52
105A560463	Resistor	R339,R340	Bellcore Issue 6	Level I		0.002277	2.00	.0235	0.004553	439250417.95
1121647780	Capacitor	C233,C236	Bellcore Issue 6	Level I		0.004553	2.00	.0471	0.009106	219625208.97
105A530103	Resistor	R266	Bellcore Issue 6	Level I		0.002277	1.00	.0118	0.002277	439250417.95

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Environment GF, GU - Ground Fixed, Uncontrolled
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Time 9:58 上午
Failure Rate 19.346579
MTBF 51,689

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1129701790	Capacitor	C145,C149,C152-C154,C157,C158-,C160,C162,C164,C166-C168,C171-,C175,C178-C181,C184,C185,C193-,C204,C56,C57	Bellcore Issue 6	Level I		0.004553	25.00	.5884	0.113830	219625208.97
105A551113	Resistor	R303	Bellcore Issue 6	Level I		0.002277	1.00	.0118	0.002277	439250417.95
1124433680	Capacitor	C140	Bellcore Issue 6	Level I		0.004553	1.00	.0235	0.004553	219625208.97
105A502723	Resistor	R149	Bellcore Issue 6	Level I		0.002277	1.00	.0118	0.002277	439250417.95
14S9070800	Integrated Circuit	U1,U2,U33,U4-U6	Bellcore Issue 6	Level I		0.039760	6.00	1.2331	0.238561	25150780.80
105A540203	Resistor	R299	Bellcore Issue 6	Level I		0.002277	1.00	.0118	0.002277	439250417.95
1059702261	Resistor	R108,R116,R144-R146,R161,R166-,R167,R173,R438	Bellcore Issue 6	Level I		0.002277	10.00	.1177	0.022766	439250417.95
1315450310	Semiconductor	Q39	Bellcore Issue 6	Level I		0.080062	1.00	.4138	0.080062	12490345.83
105A547503	Resistor	R134	Bellcore Issue 6	Level I		0.002277	1.00	.0118	0.002277	439250417.95
1189647080	Capacitor	C128,C143,C156,C161	Bellcore Issue 6	Level I		0.004553	4.00	.0941	0.018213	219625208.97
1314108412	Integrated Circuit	Q42	Bellcore Issue 6	Level I		0.060240	1.00	.3114	0.060240	16600154.56
1540747181	Resistor	RN41	Bellcore Issue 6	Level I		0.006303	1.00	.0326	0.006303	158646359.09
121230603C	Inductor	FB15-FB19,FB2,FB4,FB5,FB7-FB9	Bellcore Issue 6	Level I		0.002277	11.00	.1294	0.025043	439250417.95
14S5A73200	Integrated Circuit	U31,U32	Bellcore Issue 6	Level I		0.039760	2.00	.4110	0.079520	25150780.80
1654262300	Connection	MPC11	Bellcore Issue 6	Level I		0.071293	1.00	.3685	0.071293	14026615.87
1124427090	Capacitor	C238,C239,C243-C250	Bellcore Issue 6	Level I		0.004553	10.00	.2353	0.045532	219625208.97
105A549969	Resistor	R308,R320,R323	Bellcore Issue 6	Level I		0.002277	3.00	.0353	0.006830	439250417.95
1653925216	Connection	CFD1	Bellcore Issue 6	Level I		0.028747	1.00	.1486	0.028747	34786007.37
14S6334605	Integrated Circuit	U37-U41	Bellcore Issue 6	Level I		0.031049	5.00	.8024	0.155244	32207465.28
1121701080	Capacitor	C1,C141,C144,C146,C147,C169,C-186,C187,C201-C203,C215,C226-,C229,C234,C240,C25,C35,C58,C61-,C77,C88,C97	Bellcore Issue 6	Level I		0.004553	23.00	.5413	0.104724	219625208.97
1124427190	Capacitor	C220,C27	Bellcore Issue 6	Level I		0.004553	2.00	.0471	0.009106	219625208.97
105A510009	Resistor	R310,R322,R324	Bellcore Issue 6	Level I		0.002277	3.00	.0353	0.006830	439250417.95
1540715381	Resistor	RN31-RN34	Bellcore Issue 6	Level I		0.006303	4.00	.1303	0.025213	158646359.09
1129722060	Capacitor	C122,C255	Bellcore Issue 6	Level I		0.004553	2.00	.0471	0.009106	219625208.97
106B701032	Resistor	RT1	Bellcore Issue 6	Level I		0.011499	1.00	.0594	0.011499	86965018.42
14S4810001	Integrated Circuit	U22	Bellcore Issue 6	Level I	37.10	0.275863	1.00	1.4259	0.275863	3624991.00

AAEON Reliability Prediction Report

Part Number 9697215001-DIP
Reference Des
Date 04. 1, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.20

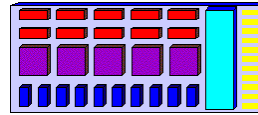


Description
File Name FWS-2150.RPJ
Time 9:58 上午
Failure Rate 19.346579
MTBF 51,689

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
14S4810001	Integrated Circuit	U24-U27	Bellcore Issue 6	Level I		0.039760	4.00	.8221	0.159041	25150780.80
105A554963	Resistor	R319	Bellcore Issue 6	Level I		0.002277	1.00	.0118	0.002277	439250417.95
1129610051	Capacitor	TC1,TC10-TC34,TC2,TC3,TC40,T-C41,TC8,TC9	Bellcore Issue 6	Level I		0.004553	31.00	.7296	0.141150	219625208.97
105A516903	Resistor	R228,R370	Bellcore Issue 6	Level I		0.002277	2.00	.0235	0.004553	439250417.95
14S2200900	Integrated Circuit	U29	Bellcore Issue 6	Level I		0.060240	1.00	.3114	0.060240	16600154.56
14S9080900	Integrated Circuit	U11	Bellcore Issue 6	Level I		0.060240	1.00	.3114	0.060240	16600154.56
1300414844	Semiconductor	D1,D13,D2,D3	Bellcore Issue 6	Level I		0.024019	4.00	.4966	0.096074	41634486.10
105A522003	Resistor	R138,R336,R68	Bellcore Issue 6	Level I		0.002277	3.00	.0353	0.006830	439250417.95
1540747083	Resistor	RN1-RN6	Bellcore Issue 6	Level I		0.006303	6.00	.1955	0.037820	158646359.09
105A501233	Resistor	R197,R414	Bellcore Issue 6	Level I		0.002277	2.00	.0235	0.004553	439250417.95
105A580663	Resistor	R345	Bellcore Issue 6	Level I		0.002277	1.00	.0118	0.002277	439250417.95
14S5A01700	Integrated Circuit	U17	Bellcore Issue 6	Level I		0.060240	1.00	.3114	0.060240	16600154.56
14S4622700	Integrated Circuit	U21	Bellcore Issue 6			0.060240	1.00	.3114	0.060240	16600154.56
105A508233	Resistor	R74	Bellcore Issue 6	Level I		0.002277	1.00	.0118	0.002277	439250417.95
121230805Y	Inductor	FB1,FB22-FB26,FB28-FB32,FB6	Bellcore Issue 6	Level I		0.002277	12.00	.1412	0.027319	439250417.95
121230603W	Inductor	FB35,FB39,FB40,FB44,PB2	Bellcore Issue 6	Level I		0.002277	5.00	.0588	0.011383	439250417.95
123131435B	Miscellaneous	X1	Bellcore Issue 6	Level I		0.150000	1.00	.7753	0.150000	6666666.67
1231325058	Miscellaneous	Y3-Y7	Bellcore Issue 6	Level I		0.150000	5.00	3.8767	0.750000	6666666.67
105A541203	Resistor	R301	Bellcore Issue 6	Level I		0.002277	1.00	.0118	0.002277	439250417.95
105A536513	Resistor	R142	Bellcore Issue 6	Level I		0.002277	1.00	.0118	0.002277	439250417.95
1540722180	Resistor	RN11,RN8	Bellcore Issue 6	Level I		0.006303	2.00	.0652	0.012607	158646359.09
1315600210	Semiconductor	Q10,Q14	Bellcore Issue 6	Level I		0.160124	2.00	1.6553	0.320247	6245172.92
1189647180	Capacitor	C260,C261,C41,C60,C66	Bellcore Issue 6	Level I		0.004553	5.00	.1177	0.022766	219625208.97
1129622050	Capacitor	C135,C142,C148,C151,C155,C159-,C165,C170,C174,C177,C188-C190-,C194-C200,C29-C34,C37,C38,C40-C47-C55	Bellcore Issue 6	Level I		0.004553	38.00	.8943	0.173022	219625208.97
1129647650	Capacitor	C134,C150,C163,C2,C207,C3,C73-C96	Bellcore Issue 6	Level I		0.004553	8.00	.1883	0.036426	219625208.97
1752310000	Miscellaneous	FS1,P1-P3	Bellcore Issue 6	Level I		0.030000	4.00	.6203	0.120000	33333333.33
105A501413	Resistor	R274	Bellcore Issue 6	Level I		0.002277	1.00	.0118	0.002277	439250417.95
14S4871204	Integrated Circuit	U16	Bellcore Issue 6	Level I		0.039760	1.00	.2055	0.039760	25150780.80

AAEON Reliability Prediction Report

Part Number 9697215001-DIP
Reference Des
Date 04. 1, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.20



Description
File Name FWS-2150.RPJ
Time 9:58 上午
Failure Rate 19.346579
MTBF 51,689

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1129701690	Capacitor	BC1,BC10,BC100-BC173,BC11-BC-17,BC175-BC179,BC18,BC182-BC-213,BC19,BC2,BC20,BC218-BC230-BC23,BC24,BC248-BC253,BC25	Bellcore Issue 6	Level I		0.004553	146.00	3.4361	0.664769	219625208.97
1129701690	Capacitor	BC26-BC30,BC3,BC34,BC36,BC37-BC4,BC41-BC45,BC5,BC51,BC53--BC62,BC6,BC65-BC67,BC69,BC7,-BC70-BC99,BC8,BC9	Bellcore Issue 6	Level I		0.004553	65.00	1.5298	0.295959	219625208.97
1124433090	Capacitor	C10-C24,C4-C9	Bellcore Issue 6	Level I		0.004553	21.00	.4942	0.095617	219625208.97
1750220320	Connection	BAT1	Bellcore Issue 6	Level I		0.001150	1.00	.0059	0.001150	869650184.19
1653004200	Connection	FP1	Bellcore Issue 6	Level I		0.004600	1.00	.0238	0.004600	217412546.05
165300420F	Connection	CN1	Bellcore Issue 6	Level I		0.004600	1.00	.0238	0.004600	217412546.05
14S6200404	Integrated Circuit	XU20	Bellcore Issue 6	Level I		0.163443	1.00	.8448	0.163443	6118333.88