

FES-6110

Reliability Prediction Report

(MTBF)

Summary	Failure Rate: 14.761737 ppm MTBF: 67,743 Hours
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Issue date	Approval	Test Engineer
2010/05/10	Jansin Lee	Jessica Chou

Reliability Prediction (MTBF)

I . Model Name: TF-FES-6110-A10-01

II . Prediction Date: May 10, 2010

III . Prediction Site: AAEON Q.E. Dept.

IV . Predicted by: Jessica Chou

V . Equipment: Relx Ver.7.3 Visual Reliability Software

VI. Simulation Environment:

- Temperature: 25.0 degrees 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:

TF-FES-6110-A10-01 (Not include power adapter)

- Failure Rate: 14.761737 ppm
- MTBF: 67,743 Hours

Below components MTBF value were provided by the suppliers:

- Adapter - (TF)Power Adapter.100/240V.12V.5A.60W.DC.With Lock.FSP.FSP060-DBAB1
MTBF: 60,000 hours

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 05. 10, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

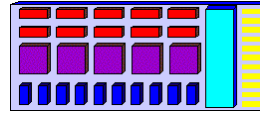


Description Top-level assembly
File Name TF-FES-6110-A10-01.RPJ
Time 2:34 下午
Failure Rate 14.761737
MTBF 67,743

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-FES-6110-A10-01	System	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	14.76	67742.71
PER-T162	9697T16201-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	1.35	738230.51
IMBE-945G	9697945G12-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	13.41	74587.09

AAEON Reliability Prediction Report

Part Number 9697T16201-D
Reference Des
Date 05. 10, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-FES-6110-A10-01.RPJ
Time 2:34 下午
Failure Rate 1.354590
MTBF 738,231

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1121501690	Capacitor	BC1,BC12,BC13,BC16, BC17,BC18,BC2,BC20, BC21,BC3,BC32,BC33, BC4,BC5,BC6,BC7, BC8	Telcordia Issue 1	Level I		17.00	0.004535	5.6919	220487045.01
1121501680	Capacitor	BC10,BC11,BC14, BC15,BC19,BC22, BC23,BC24,BC25, BC26,BC27,BC28, BC29,BC30,BC31,BC9, C1	Telcordia Issue 1	Level I		17.00	0.004535	5.6919	220487045.01
1654926900	Connection	CN1A,CN3A	Telcordia Issue 1	Level I		2.00	0.029586	4.3683	33799241.18
1654226300	Connection	CN1B,CN3B	Telcordia Issue 1	Level I		2.00	0.029586	4.3683	33799241.18
11E1501080	Capacitor	C2	Telcordia Issue 1	Level I		1.00	0.004535	.3348	220487045.01
1124510080	Capacitor	C3,C4	Telcordia Issue 1	Level I		2.00	0.004535	.6696	220487045.01
11E1647650	Capacitor	C5	Telcordia Issue 1	Level I		1.00	0.004535	.3348	220487045.01
121230603H	Inductor	FB1,FB2,FB3,FB4	Telcordia Issue 1	Level I		4.00	0.002268	.6696	440974090.03
1212308054	Inductor	FB5,FB6	Telcordia Issue 1	Level I		2.00	0.002268	.3348	440974090.03
1752001601	Miscellaneous	FS1	Telcordia Issue 1	Level I		1.00	0.003000	.2215	333333333.33
1310390411	Semiconductor	Q1,Q2	Telcordia Issue 1	Level I		2.00	0.023881	3.5259	41874327.58
14S5A00702	Integrated Circuit	Q4,Q5	Telcordia Issue 1	Level I		2.00	0.059366	8.7652	16844654.92
105A704729	Resistor	R1,R2	Telcordia Issue 1	Level I		2.00	0.002268	.3348	440974090.03
105A700003	Resistor	R13,R14,R21,R22, R23,R26,R27,R3,R32, R33,R34,R37,R38, R41,R45,R48,R59, R60	Telcordia Issue 1	Level I		18.00	0.002268	3.0134	440974090.03
105A701033	Resistor	R17,R4	Telcordia Issue 1	Level I		2.00	0.002268	.3348	440974090.03
105A708229	Resistor	R5,R6	Telcordia Issue 1	Level I		2.00	0.002268	.3348	440974090.03
105A701039	Resistor	R10,R11,R12,R8	Telcordia Issue 1	Level I		4.00	0.002268	.6696	440974090.03
105A501223	Resistor	R9	Telcordia Issue 1	Level I		1.00	0.002268	.1674	440974090.03
105A700133	Resistor	R15,R16,R25,R36, R44,R47	Telcordia Issue 1	Level I		6.00	0.002268	1.0045	440974090.03
105A551003	Resistor	R18,R19,R20,R29, R30,R31	Telcordia Issue 1	Level I		6.00	0.002268	1.0045	440974090.03
105A710033	Resistor	R28,R39	Telcordia Issue 1	Level I		2.00	0.002268	.3348	440974090.03
105A502200	Resistor	R42	Telcordia Issue 1	Level I		1.00	0.002268	.1674	440974090.03
105A511503	Resistor	R43	Telcordia Issue 1	Level I		1.00	0.002268	.1674	440974090.03
1129610051	Capacitor	TC10,TC11,TC12, TC13,TC2,TC3,TC4, TC6,TC7,TC8,TC9	Telcordia Issue 1	Level I		11.00	0.004535	3.6830	220487045.01
14S4730701	Integrated Circuit	U2	Telcordia Issue 1	Level I		1.00	0.059366	4.3826	16844654.92
14S3115001	Integrated Circuit	U3	Telcordia Issue 1	Level I	29.40	1.00	0.420466	31.0401	2378314.03
1314570810	Semiconductor	Q3	Telcordia Issue 1	Level I		1.00	0.047762	3.5259	20937163.79

AAEON Reliability Prediction Report

Part Number 9697T16201-D
Reference Des
Date 05. 10, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-FES-6110-A10-01.RPJ
Time 2:34 下午
Failure Rate 1.354590
MTBF 738,231

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1059700001	Resistor	R49,R52,R53,R54, R57,R58	Telcordia Issue 1	Level I		6.00	0.002268	1.0045	440974090.03
1050533004	Resistor	R61,R62,R63,R64	Telcordia Issue 1	Level I		4.00	0.002268	.6696	440974090.03
11A4901090	Capacitor	C10,C11,C8,C9	Telcordia Issue 1	Level I		4.00	0.004535	1.3393	220487045.01
1654430301	Connection	DVI1	Telcordia Issue 1	Level I		1.00	0.017069	1.2601	58585351.38
1119647191	Capacitor	EC1,EC2	Telcordia Issue 1	Level I		2.00	0.071121	10.5008	14060484.33
165424920A	Connection	PCIE1	Telcordia Issue 1	Level I		1.00	0.001138	.0840	878780270.71

AAEON Reliability Prediction Report

Part Number 9697945G12-D
Reference Des
Date 05. 10, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-FES-6110-A10-01.RPJ
Time 2:34 下午
Failure Rate 13.407146
MTBF 74,587

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
11E9501090	Capacitor	C100,C147,C148, C151,C155,C158, C159,C167,C173, C174,C175,C176, C177,C178,C179, C180,C182,C183, C185,C186,C187, C188,C191,C193, C196,C198,C201, C203,C207,C208, C209,C210,C212, C229,C36,C39,C42, C43,C49,C50,C59	Telcordia Issue 1	Level I		52.00	0.004535	1.7591	220487045.01
11B9747490	Capacitor	C166,C168,C46,C48	Telcordia Issue 1	Level I		4.00	0.004535	.1353	220487045.01
1129710090	Capacitor	C108,C109,C110, C220,C222,C51,C53	Telcordia Issue 1	Level I		7.00	0.004535	.2368	220487045.01
1124433090	Capacitor	C57,C58,C84,C85	Telcordia Issue 1	Level I		4.00	0.004535	.1353	220487045.01
1129701790	Capacitor	C143,C213,C216, C218,C62,C66,C70, C78,C81	Telcordia Issue 1	Level I		9.00	0.004535	.3045	220487045.01
1124410191	Capacitor	C72	Telcordia Issue 1	Level I		1.00	0.004535	.0338	220487045.01
1124433190	Capacitor	C102,C189,C190, C225,C233,C235, C236,C237,C238, C239,C244,C79,C93, C94	Telcordia Issue 1	Level I		14.00	0.004535	.4736	220487045.01
118961018A	Capacitor	C202,C80,C88,C89	Telcordia Issue 1	Level I		4.00	0.004535	.1353	220487045.01
1124427091	Capacitor	C105,C112,C113, C114,C115,C116, C117,C227,C232,C63	Telcordia Issue 1	Level I		10.00	0.004535	.3383	220487045.01
1124515880	Capacitor	C91	Telcordia Issue 1	Level I		1.00	0.004535	.0338	220487045.01
1121722780	Capacitor	C106,C126,C129	Telcordia Issue 1	Level I		3.00	0.004535	.1015	220487045.01
11C9512780	Capacitor	C107	Telcordia Issue 1	Level I		1.00	0.004535	.0338	220487045.01
1122622660	Capacitor	C111	Telcordia Issue 1	Level I		1.00	0.004535	.0338	220487045.01
11C4501060	Capacitor	C119,C128	Telcordia Issue 1	Level I		2.00	0.004535	.0677	220487045.01
1124518280	Capacitor	C123,C134	Telcordia Issue 1	Level I		2.00	0.004535	.0677	220487045.01
1122522890	Capacitor	C149	Telcordia Issue 1	Level I		1.00	0.004535	.0338	220487045.01
1129622050	Capacitor	C171,C172,C205, C214	Telcordia Issue 1	Level I		4.00	0.004535	.1353	220487045.01
1124418190	Capacitor	C226	Telcordia Issue 1	Level I		1.00	0.004535	.0338	220487045.01
1124556180	Capacitor	C228	Telcordia Issue 1	Level I		1.00	0.004535	.0338	220487045.01
16515A0997	Connection	DIMM1	Telcordia Issue 1	Level I		1.00	0.113794	.8488	8787802.71
1300283540	Semiconductor	D1	Telcordia Issue 1	Level I		1.00	0.023881	.1781	41874327.58

AAEON Reliability Prediction Report

Part Number 9697945G12-D
Reference Des
Date 05. 10, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-FES-6110-A10-01.RPJ
Time 2:34 下午
Failure Rate 13.407146
MTBF 74,587

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1300414844	Semiconductor	D2	Telcordia Issue 1	Level I		1.00	0.023881	.1781	41874327.58
1300581940	Semiconductor	D3	Telcordia Issue 1	Level I		1.00	0.079603	.5937	12562298.27
1300001440	Semiconductor	D4,D5	Telcordia Issue 1	Level I		2.00	0.023881	.3562	41874327.58
1301003440	Semiconductor	D6,D8,D9	Telcordia Issue 1	Level I		3.00	0.023881	.5344	41874327.58
1301005442	Semiconductor	D11,D7	Telcordia Issue 1	Level I		2.00	0.023881	.3562	41874327.58
1301005440	Semiconductor	D12,D13,D15	Telcordia Issue 1	Level I		3.00	0.023881	.5344	41874327.58
1301053040	Semiconductor	D14	Telcordia Issue 1	Level I		1.00	0.023881	.1781	41874327.58
12123A0003	Inductor	FB1	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
1212308054	Inductor	FB12,FB19,FB2,FB26, FB29,FB31,FB33, FB35,FB7	Telcordia Issue 1	Level I		9.00	0.002268	.1522	440974090.03
1212306033	Inductor	FB10,FB20,FB21, FB22,FB23,FB24, FB25,FB3,FB36,FB37, FB38,FB39,FB5,FB6, FB8,FB9	Telcordia Issue 1	Level I		16.00	0.002268	.2706	440974090.03
121230603H	Inductor	FB18,FB34,FB4	Telcordia Issue 1	Level I		3.00	0.002268	.0507	440974090.03
1059700001	Resistor	FB11,FB13,FB14, FB15,FB16,FB17, FB27,FB28,FB30, FB32,FB50,FB51, R315,R354,R36,R386, R393,R534	Telcordia Issue 1	Level I		18.00	0.002268	.3045	440974090.03
1752310000	Miscellaneous	FS1,FS4,FS5	Telcordia Issue 1	Level I		3.00	0.003000	.0671	333333333.33
1752001601	Miscellaneous	FS2,FS3	Telcordia Issue 1	Level I		2.00	0.003000	.0448	333333333.33
121110336L	Inductor	L3	Telcordia Issue 1	Level I	39.70	1.00	0.171200	1.2769	5841111.69
121110336L	Inductor	L5	Telcordia Issue 1	Level I	20.70	1.00	0.125918	.9392	7941668.42
121110010P	Inductor	L16,L6	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
1211101002	Inductor	L15,L7	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
1214309006	Inductor	L10,L11,L12,L13,L8, L9	Telcordia Issue 1	Level I		6.00	0.002268	.1015	440974090.03
1315889611	Semiconductor	Q1,Q22,Q26, Q30,Q4	Telcordia Issue 1	Level I		5.00	0.079603	2.9687	12562298.27
1315889611	Semiconductor	Q28	Telcordia Issue 1	Level I	38.80	1.00	0.213512	1.5925	4683566.88
1315889611	Semiconductor	Q27	Telcordia Issue 1	Level I	36.40	1.00	0.202210	1.5082	4945341.74
1310390411	Semiconductor	Q2,Q31,Q36,Q43	Telcordia Issue 1	Level I		4.00	0.023881	.7125	41874327.58
1315668012	Semiconductor	Q23,Q24,Q3	Telcordia Issue 1	Level I		3.00	0.023881	.5344	41874327.58
1315668012	Semiconductor	Q25	Telcordia Issue 1	Level I	38.40	1.00	0.063479	.4735	15753194.89
1315700211	Semiconductor	Q10,Q11,Q12,Q13, Q14,Q15,Q18,Q19, Q20,Q40,Q42,Q44, Q45,Q46,Q47,Q5,Q6, Q7,Q8,Q9	Telcordia Issue 1	Level I		20.00	0.079603	11.8748	12562298.27
1315313800	Semiconductor	Q21	Telcordia Issue 1	Level I		1.00	0.079603	.5937	12562298.27

AAEON Reliability Prediction Report

Part Number 9697945G12-D
Reference Des
Date 05. 10, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-FES-6110-A10-01.RPJ
Time 2:34 下午
Failure Rate 13.407146
MTBF 74,587

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S3524700	Integrated Circuit	Q29	Telcordia Issue 1	Level I		1.00	0.059366	.4428	16844654.92
1315230111	Semiconductor	Q34	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
1305099140	Semiconductor	Q37, Q38	Telcordia Issue 1	Level I		2.00	0.079603	1.1875	12562298.27
1311390610	Semiconductor	Q39, Q41	Telcordia Issue 1	Level I		2.00	0.023881	.3562	41874327.58
1540701380	Resistor	RN1	Telcordia Issue 1	Level I		1.00	0.006246	.0466	160102772.00
106B747030	Resistor	RT1	Telcordia Issue 1	Level I		1.00	0.011379	.0849	87878027.07
106B701032	Resistor	RT2, RT3, RT4, RT5	Telcordia Issue 1	Level I		4.00	0.011379	.3395	87878027.07
105A702263	Resistor	R1, R18, R290, R33, R364, R368, R369, R375, R377, R378	Telcordia Issue 1	Level I		10.00	0.002268	.1691	440974090.03
105A700003	Resistor	R12, R2, R20, R279, R325, R35, R350, R351, R352, R357, R384, R573, R726	Telcordia Issue 1	Level I		13.00	0.002268	.2199	440974090.03
105A704729	Resistor	R100, R15, R170, R172, R175, R184, R195, R198, R214, R217, R220, R223, R228, R229, R230, R232, R235, R308, R309, R310, R311, R358, R389, R413, R436, R442, R450, R48, R488, R572, R574, R72, R75, R97	Telcordia Issue 1	Level I		34.00	0.002268	.5751	440974090.03
105A733009	Resistor	R10, R14, R4, R504	Telcordia Issue 1	Level I		4.00	0.002268	.0677	440974090.03
105A500139	Resistor	R21, R255, R256, R257, R258, R260, R262, R340, R491, R5, R515, R520, R539, R541, R714	Telcordia Issue 1	Level I		15.00	0.002268	.2537	440974090.03
105A504723	Resistor	R24, R7	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
105A504733	Resistor	R8	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A701033	Resistor	R13, R29, R40, R9	Telcordia Issue 1	Level I		4.00	0.002268	.0677	440974090.03
105A702209	Resistor	R11, R213, R216, R343, R344, R345, R346, R524	Telcordia Issue 1	Level I		8.00	0.002268	.1353	440974090.03
105A500133	Resistor	R16, R27	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
1059704761	Resistor	R17	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03

AAEON Reliability Prediction Report

Part Number 9697945G12-D
Reference Des
Date 05. 10, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-FES-6110-A10-01.RPJ
Time 2:34 下午
Failure Rate 13.407146
MTBF 74,587

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A701039	Resistor	R169,R174,R22,R297, R394,R398,R400, R403,R409,R421, R425,R433,R437, R467,R469,R470, R471,R472,R487, R493,R497,R532, R533,R55,R57,R58, R61,R66,R76,R79	Telcordia Issue 1	Level I		30.00	0.002268	.5074	440974090.03
105A700009	Resistor	R104,R105,R107, R113,R154,R167, R171,R173,R178, R200,R208,R209, R221,R225,R227,R23, R239,R242,R248, R264,R269,R273, R274,R276,R278, R281,R295,R296, R307,R341,R359, R372,R396,R404, R410,R411,R418, R427,R43,R44,R4	Telcordia Issue 1	Level I		72.00	0.002268	1.2178	440974090.03
105A566513	Resistor	R26,R366	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
105A575003	Resistor	R356	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A571513	Resistor	R28	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A501529	Resistor	R31,R419	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
105A705609	Resistor	R114,R118,R119, R122,R123,R125, R127,R129,R130, R132,R134,R135, R137,R138,R141, R142,R143,R144, R145,R147,R148, R150,R151,R152, R153,R157,R177, R318,R319,R320, R321,R38,R51,R514, R518,R519,R522, R525,R526,R530	Telcordia Issue 1	Level I		40.00	0.002268	.6766	440974090.03
105A515813	Resistor	R41	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A500233	Resistor	R348,R42	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03

AAEON Reliability Prediction Report

Part Number 9697945G12-D
Reference Des
Date 05. 10, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-FES-6110-A10-01.RPJ
Time 2:34 下午
Failure Rate 13.407146
MTBF 74,587

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A700139	Resistor	R149,R166,R182, R204,R226,R233, R388,R401,R45,R459, R494,R54,R548,R567, R575,R65	Telcordia Issue 1	Level I		16.00	0.002268	.2706	440974090.03
105A524963	Resistor	R126,R131,R391, R408,R47,R485	Telcordia Issue 1	Level I		6.00	0.002268	.1015	440974090.03
105A700133	Resistor	R50	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A703309	Resistor	R192,R215,R218, R521,R53,R592,R593, R63,R68,R74	Telcordia Issue 1	Level I		10.00	0.002268	.1691	440974090.03
105A500239	Resistor	R259,R261,R508,R64, R69	Telcordia Issue 1	Level I		5.00	0.002268	.0846	440974090.03
105A510009	Resistor	R112,R392,R395, R402,R447,R466, R475,R482,R507, R535,R537,R591,R70	Telcordia Issue 1	Level I		13.00	0.002268	.2199	440974090.03
105A708229	Resistor	R103,R110,R111, R116,R124,R128, R133,R136,R140, R210,R241,R251, R266,R267,R399, R405,R414,R416, R423,R426,R431, R435,R438,R445, R449,R453,R456, R457,R458,R462, R464,R465,R481, R513,R517,R712, R713,R73,R77,R7	Telcordia Issue 1	Level I		47.00	0.002268	.7950	440974090.03
1050502224	Resistor	R109,R90	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
105A515009	Resistor	R101,R328,R330, R332,R441,R91	Telcordia Issue 1	Level I		6.00	0.002268	.1015	440974090.03
105A710039	Resistor	R374,R390,R454, R455,R96	Telcordia Issue 1	Level I		5.00	0.002268	.0846	440974090.03
105A580663	Resistor	R115,R120	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
105A554969	Resistor	R139,R191,R222, R476	Telcordia Issue 1	Level I		4.00	0.002268	.0677	440974090.03
105A702039	Resistor	R146	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A703909	Resistor	R155,R430,R434, R477,R478,R479	Telcordia Issue 1	Level I		6.00	0.002268	.1015	440974090.03
105A701069	Resistor	R156,R196	Telcordia Issue 1	Level I		2.00	0.013606	.2030	73495681.67
105A533233	Resistor	R158	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A701053	Resistor	R159,R165	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
105A522663	Resistor	R160	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
1050549904	Resistor	R161,R550	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03

AAEON Reliability Prediction Report

Part Number 9697945G12-D
Reference Des
Date 05. 10, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-FES-6110-A10-01.RPJ
Time 2:34 下午
Failure Rate 13.407146
MTBF 74,587

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A702229	Resistor	R180,R190,R212, R429,R439,R440, R474,R588,R596	Telcordia Issue 1	Level I		9.00	0.002268	.1522	440974090.03
105A527469	Resistor	R181,R219	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
105A502039	Resistor	R187	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
1050512164	Resistor	R188,R194	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
105A705139	Resistor	R206,R716,R717, R718,R719	Telcordia Issue 1	Level I		5.00	0.002268	.0846	440974090.03
105A701533	Resistor	R224	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A501039	Resistor	R234,R249,R254, R263,R268,R451, R468,R536,R538	Telcordia Issue 1	Level I		9.00	0.002268	.1522	440974090.03
105A506829	Resistor	R240,R253,R342, R347	Telcordia Issue 1	Level I		4.00	0.002268	.0677	440974090.03
105A503039	Resistor	R244	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A756033	Resistor	R250,R559,R563	Telcordia Issue 1	Level I		3.00	0.002268	.0507	440974090.03
105A747033	Resistor	R265,R558,R562	Telcordia Issue 1	Level I		3.00	0.002268	.0507	440974090.03
105A540213	Resistor	R282	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A715009	Resistor	R285,R287,R288	Telcordia Issue 1	Level I		3.00	0.002268	.0507	440974090.03
105A700103	Resistor	R316	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A568113	Resistor	R317	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A549919	Resistor	R324	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A747009	Resistor	R327,R576	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
105A507509	Resistor	R329,R331,R333	Telcordia Issue 1	Level I		3.00	0.002268	.0507	440974090.03
1050537434	Resistor	R334	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A545313	Resistor	R335	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A535713	Resistor	R336	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A702269	Resistor	R337	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A752323	Resistor	R338	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A576813	Resistor	R339	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A517813	Resistor	R349	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A702033	Resistor	R353	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A504763	Resistor	R355,R360	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
105A522123	Resistor	R362	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A531613	Resistor	R367	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A701003	Resistor	R370,R379,R446, R578,R579	Telcordia Issue 1	Level I		5.00	0.002268	.0846	440974090.03
105A503333	Resistor	R380	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A518223	Resistor	R381	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A525503	Resistor	R432	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03

AAEON Reliability Prediction Report

Part Number 9697945G12-D
Reference Des
Date 05. 10, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-FES-6110-A10-01.RPJ
Time 2:34 下午
Failure Rate 13.407146
MTBF 74,587

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A522103	Resistor	R463,R484	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
1050501004	Resistor	R473	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
1050520004	Resistor	R483	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A506803	Resistor	R528	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
1059703623	Resistor	R542	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A524913	Resistor	R544	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A514733	Resistor	R564	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A563413	Resistor	R568	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A522113	Resistor	R580	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
1122710091	Capacitor	TC1,TC10,TC26,TC27,TC28,TC3,TC30,TC56,TC62,TC63,TC64	Telcordia Issue 1	Level I		11.00	0.004535	.3721	220487045.01
1129610051	Capacitor	TC11,TC12,TC13,TC14,TC15,TC16,TC17,TC18,TC19,TC2,TC20,TC21,TC22,TC23,TC24,TC25,TC29,TC31,TC32,TC33,TC34,TC35,TC36,TC37,TC38,TC39,TC4,TC40,TC42,TC43,TC44,TC45,TC46,TC47,TC48,TC49,TC5,TC50,TC51,TC52,TC53,TC54,	Telcordia Issue 1	Level I		51.00	0.004535	1.7252	220487045.01
14S4653701	Integrated Circuit	U1	Telcordia Issue 1	Level I	38.10	1.00	0.702746	5.2416	1422988.36
14S4622800	Integrated Circuit	U2	Telcordia Issue 1	Level I		1.00	0.059366	.4428	16844654.92
14S4195710	Integrated Circuit	U4	Telcordia Issue 1	Level I		1.00	0.059366	.4428	16844654.92
14S5A00704	Integrated Circuit	U5	Telcordia Issue 1	Level I		1.00	0.026183	.1953	38193355.79
14S3102000	Integrated Circuit	U6	Telcordia Issue 1	Level I		1.00	0.059366	.4428	16844654.92
14S4081110	Integrated Circuit	U27,U34,U8	Telcordia Issue 1	Level I		3.00	0.059366	1.3284	16844654.92
14S428010D	Integrated Circuit	U9	Telcordia Issue 1	Level I	23.70	1.00	0.095171	.7099	10507376.69
14S4294503	Integrated Circuit	U10	Telcordia Issue 1	Level I	22.40	1.00	0.089107	.6646	11222490.21
14S3128421	Integrated Circuit	U11	Telcordia Issue 1	Level I		1.00	0.059366	.4428	16844654.92
14S5A01400	Integrated Circuit	U12,U21,U30,U31	Telcordia Issue 1	Level I		4.00	0.059366	1.7712	16844654.92
14S3950100	Integrated Circuit	U13	Telcordia Issue 1	Level I	40.00	1.00	0.208148	1.5525	4804265.53
14S4160020	Integrated Circuit	U14	Telcordia Issue 1	Level I		1.00	0.026183	.1953	38193355.79
14S4878100	Integrated Circuit	U38	Telcordia Issue 1	Level I	30.30	1.00	0.131882	.9837	7582516.35
14S1230400	Integrated Circuit	U17	Telcordia Issue 1	Level I		1.00	0.059366	.4428	16844654.92

AAEON Reliability Prediction Report

Part Number 9697945G12-D
Reference Des
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Description
File Name TF-FES-6110-A10-01.RPJ
Time 2:34 下午
Failure Rate 13.407146
MTBF 74,587

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S5812502	Integrated Circuit	U18	Telcordia Issue 1	Level I		1.00	0.026183	.1953	38193355.79
14S4811100	Integrated Circuit	U19	Telcordia Issue 1	Level I	33.00	1.00	0.150148	1.1199	6660110.47
14S5A12506	Integrated Circuit	U20	Telcordia Issue 1	Level I		1.00	0.026183	.1953	38193355.79
14S4021301	Integrated Circuit	U22,U25	Telcordia Issue 1	Level I		2.00	0.059366	.8856	16844654.92
14S4021301	Integrated Circuit	U40	Telcordia Issue 1	Level I	25.70	1.00	0.335142	2.4997	2983810.94
14S4021301	Integrated Circuit	U39	Telcordia Issue 1	Level I	27.00	1.00	0.363156	2.7087	2753638.40
14S4048502	Integrated Circuit	U23,U24	Telcordia Issue 1	Level I		2.00	0.059366	.8856	16844654.92
14S3626100	Integrated Circuit	U26	Telcordia Issue 1	Level I	26.00	1.00	0.341428	2.5466	2928875.13
14S9661200	Integrated Circuit	U28	Telcordia Issue 1	Level I		1.00	0.059366	.4428	16844654.92
1314780511	Integrated Circuit	U29	Telcordia Issue 1	Level I		1.00	0.059366	.4428	16844654.92
14S6334607	Integrated Circuit	U33	Telcordia Issue 1	Level I		1.00	0.022943	.1711	43586356.53
14S2200900	Integrated Circuit	U35	Telcordia Issue 1	Level I		1.00	0.059366	.4428	16844654.92
1231332721	Miscellaneous	Y1	Telcordia Issue 1	Level I		1.00	0.150000	1.1188	6666666.67
123131435B	Miscellaneous	Y2	Telcordia Issue 1	Level I		1.00	0.150000	1.1188	6666666.67
1231325058	Miscellaneous	Y3	Telcordia Issue 1	Level I		1.00	0.150000	1.1188	6666666.67
14S5A00821	Integrated Circuit	U36	Telcordia Issue 1	Level I		1.00	0.026183	.1953	38193355.79
1211104760	Inductor	L17	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
14S3170800	Integrated Circuit	U15	Telcordia Issue 1	Level I	28.20	1.00	0.390867	2.9154	2558415.05
105A702239	Resistor	R589,R595	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
1653213207	Connection	LPT1	Telcordia Issue 1	Level I		1.00	0.014793	.1103	67598482.36
105A517423	Resistor	R25,R365	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
105A536523	Resistor	R6	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
1315889612	Semiconductor	Q35	Telcordia Issue 1	Level I		1.00	0.079603	.5937	12562298.27
105A501233	Resistor	R19	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A510003	Resistor	R162,R163	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
131411171G	Integrated Circuit	Q16	Telcordia Issue 1	Level I		1.00	0.059366	.4428	16844654.92
1129710390	Capacitor	C122,C124,C132, C223,C224,C67,C90, C95	Telcordia Issue 1	Level I		8.00	0.004535	.2706	220487045.01
1653205201	Connection	COM3,COM4	Telcordia Issue 1	Level I		2.00	0.005690	.0849	175756054.14
1211000180	Inductor	L1	Telcordia Issue 1	Level I	33.40	1.00	0.004085	.0305	244805854.51
1211000180	Inductor	L2	Telcordia Issue 1	Level I	35.30	1.00	0.004209	.0314	237586682.14
1211000180	Inductor	L4	Telcordia Issue 1	Level I	40.40	1.00	0.004554	.0340	219608875.14
11E2501690	Capacitor	C219	Telcordia Issue 1	Level I		1.00	0.004535	.0338	220487045.01
14S6294510	Integrated Circuit	U7	Telcordia Issue 1	Level I		1.00	0.026183	.1953	38193355.79
14S6201601	Integrated Circuit		Telcordia Issue 1	Level I		1.00	0.167136	1.2466	5983167.80
1211106872	Inductor	L18	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03

AAEON Reliability Prediction Report

Part Number 9697945G12-D
Reference Des
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Environment GF, GU - Ground Fixed, Uncontrolled
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Description
File Name TF-FES-6110-A10-01.RPJ
Time 2:34 下午
Failure Rate 13.407146
MTBF 74,587

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S3051000	Semiconductor	U41,U42	Telcordia Issue 1	Level I		2.00	0.023881	.3562	41874327.58
1112633190	Capacitor	EC7	Telcordia Issue 1	Level I		1.00	0.042673	.3183	23434140.55
1750220326	Connection	BAT1	Telcordia Issue 1	Level I		1.00	0.001138	.0085	878780270.71
175011901H	Miscellaneous	BAT1	Telcordia Issue 1	Level I		1.00	0.900000	6.7128	1111111.11
175910000B	Miscellaneous	BZ1	Telcordia Issue 1	Level I		1.00	0.150000	1.1188	6666666.67
1655305020	Connection	CN1	Telcordia Issue 1	Level I		1.00	0.002845	.0212	351512108.28
1653005201	Connection	AUDIO1,CN6,CN7	Telcordia Issue 1	Level I		3.00	0.005690	.1273	175756054.14
1653003101	Connection	COMV1,COMV2,JP1,JP10,JP11,JP3,JP4,JP5,JP6	Telcordia Issue 1	Level I		9.00	0.001707	.1146	585853513.81
1653205203	Connection	COM1	Telcordia Issue 1	Level I		1.00	0.005690	.0424	175756054.14
165440910B	Connection	COM2	Telcordia Issue 1	Level I		1.00	0.022759	.1698	43939013.54
1169656132	Capacitor	EC1,EC2	Telcordia Issue 1	Level I		2.00	0.005466	.0815	182961702.19
1169682192	Capacitor	EC3,EC5	Telcordia Issue 1	Level I		2.00	0.005466	.0815	182961702.19
165251420B	Connection	LAN1	Telcordia Issue 1	Level I		1.00	0.001138	.0085	878780270.71
1654907002	Connection	SATA1,SATA2	Telcordia Issue 1	Level I		2.00	0.003983	.0594	251080077.35
1654515308	Connection	VGA1	Telcordia Issue 1	Level I		1.00	0.008535	.0637	117170702.76
1654808309	Connection	USB1,USB2	Telcordia Issue 1	Level I		2.00	0.001138	.0170	878780270.71
1655004010	Connection	PWR2	Telcordia Issue 1	Level I		1.00	0.002276	.0170	439390135.35
1655302020	Connection	CN4,CN5	Telcordia Issue 1	Level I		2.00	0.001138	.0170	878780270.71
1654606100	Connection	CN8	Telcordia Issue 1	Level I		1.00	0.003414	.0255	292926756.90
1655404120	Connection	ATX1	Telcordia Issue 1	Level I		1.00	0.022759	.1698	43939013.54
1655004100	Connection	PWR1	Telcordia Issue 1	Level I		1.00	0.001138	.0085	878780270.71
1653005210	Connection	FP1	Telcordia Issue 1	Level I		1.00	0.001138	.0085	878780270.71