

PFM-945C

Reliability Prediction Report

(MTBF)

Report NO : 09E070034

07-28-2009

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . Model Name: TF-PFM-945C-A10-01

II . Prediction Date: Jul. 28, 2009

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: 26.0 degrees C
- Standard: Telcordia (Bellcore) Standard

VII. Term and Definition:

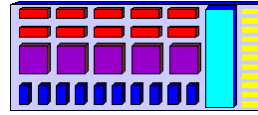
- Unit : An assembly of device.
- Duty Cycle : 100%
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure rate is to be calculated based the selected Calculation models. The multiplier is 1,000,000.
- MTBF : MTBF is always specified in hours.

VIII. Prediction Result:

- TF-PFM-945C-A10-01 :
Failure Rate: 18.888485 ppm
MTBF: 52,942 Hours

AAEON Reliability Prediction Report

Part Number 9697945C01-D
Reference Des
Date 07. 28, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 26.00

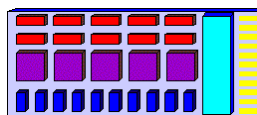


Description Top-level assembly
File Name TF-PFM-945C-A10-01.RPJ
Time 2:19 下午
Failure Rate 18.888485
MTBF 52,942

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-PFM-945C-A10-01	9697945C01-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	18.89	52942.31

AAEON Reliability Prediction Report

Part Number 9697945C01-D
Reference Des
Date 07. 28, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 26.00



Description Top-level assembly
File Name TF-PFM-945C-A10-01.RPJ
Time 2:19 下午
Failure Rate 18.888485
MTBF 52,942

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1121501690	Capacitor	C100,C101,C105, C109,C110,C114, C121,C123,C126, C127,C128,C131, C133,C136,C137, C138,C140,C142, C147,C149,C152, C157,C158,C166, C167,C170,C171, C172,C175,C176, C177,C178,C181, C184,C187,C188, C189,C19,C195,C	Telcordia Issue 1	Level I		223.00	0.004625	5.4602	216222765.25
1189615152	Capacitor	C103,C11,C116,C224, C237,C29,C366,C387, C401,C425,C43,C474, C497,C532,C58,C59, C60,C67,C84	Telcordia Issue 1	Level I		19.00	0.004625	.4652	216222765.25
1124410190	Capacitor	C12,C16,C255,C261, C28,C39,C51	Telcordia Issue 1	Level I		7.00	0.004625	.1714	216222765.25
1129710390	Capacitor	C13,C207,C209,C228, C279,C38,C44,C582, C583,C584,C585	Telcordia Issue 1	Level I		11.00	0.004625	.2693	216222765.25
11E9547680	Capacitor	C18,C186,C196,C197, C275,C289,C295, C301,C374,C397, C438,C442,C453, C463,C496,C537, C539,C574,C79	Telcordia Issue 1	Level I		19.00	0.004625	.4652	216222765.25
1129722091	Capacitor	C154,C179,C20,C26, C33,C370,C371,C534	Telcordia Issue 1	Level I		8.00	0.004625	.1959	216222765.25
1129747090	Capacitor	C214,C22,C23,C230	Telcordia Issue 1	Level I		4.00	0.004625	.0979	216222765.25
11C1510060	Capacitor	C194,C215,C24,C25	Telcordia Issue 1	Level I		4.00	0.004625	.0979	216222765.25
1129701790	Capacitor	C174,C31,C323,C365, C480,C483,C513, C527,C545,C546, C547,C65	Telcordia Issue 1	Level I		12.00	0.004625	.2938	216222765.25
1129715090	Capacitor	C42	Telcordia Issue 1	Level I		1.00	0.004625	.0245	216222765.25

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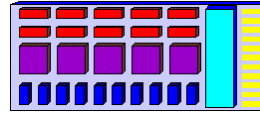


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Time 2:19 下午
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MTBF 52,942

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1129610051	Capacitor	C108,C163,C210, C220,C229,C243, C247,C250,C252, C258,C259,C266, C271,C277,C278, C285,C293,C294, C302,C317,C318, C333,C334,C336, C350,C351,C361, C367,C391,C392, C404,C406,C408, C424,C435,C440, C449,C465,C475,	Telcordia Issue 1	Level I		49.00	0.004625	1.1998	216222765.25
1124701680	Capacitor	C240,C55	Telcordia Issue 1	Level I		2.00	0.004625	.0490	216222765.25
11C4501060	Capacitor	C62	Telcordia Issue 1	Level I		1.00	0.004625	.0245	216222765.25
11E9522680	Capacitor	C104,C111,C143, C225,C241,C63,C76, C80,C91	Telcordia Issue 1	Level I		9.00	0.004625	.2204	216222765.25
1124522290	Capacitor	C393,C68	Telcordia Issue 1	Level I		2.00	0.004625	.0490	216222765.25
1189633160	Capacitor	C223,C236,C267, C319,C344,C421, C422,C552,C555,C73	Telcordia Issue 1	Level I		10.00	0.004625	.2449	216222765.25
11B9747490	Capacitor	C102,C77,C82,C89	Telcordia Issue 1	Level I		4.00	0.004625	.0979	216222765.25
1124547290	Capacitor	C489,C495,C90,C92	Telcordia Issue 1	Level I		4.00	0.004625	.0979	216222765.25
1122522890	Capacitor	C107,C231,C416, C418,C420,C428, C431,C454	Telcordia Issue 1	Level I		8.00	0.004625	.1959	216222765.25
1124427090	Capacitor	C120,C124,C161, C168,C206,C354, C355	Telcordia Issue 1	Level I		7.00	0.004625	.1714	216222765.25
1129710090	Capacitor	C145,C185,C226,C34, C549,C590	Telcordia Issue 1	Level I		6.00	0.004625	.1469	216222765.25
11E1547090	Capacitor	C211,C286	Telcordia Issue 1	Level I		2.00	0.004625	.0490	216222765.25
1124701650	Capacitor	C234	Telcordia Issue 1	Level I		1.00	0.004625	.0245	216222765.25
1124547190	Capacitor	C160,C239	Telcordia Issue 1	Level I		2.00	0.004625	.0490	216222765.25
1124527190	Capacitor	C253	Telcordia Issue 1	Level I		1.00	0.004625	.0245	216222765.25
1123710090	Capacitor	C268,C280	Telcordia Issue 1	Level I		2.00	0.004625	.0490	216222765.25
1124433090	Capacitor	C347,C349	Telcordia Issue 1	Level I		2.00	0.004625	.0490	216222765.25
1129622050	Capacitor	C476,C477,C491	Telcordia Issue 1	Level I		3.00	0.004625	.0735	216222765.25
1129610080	Capacitor	C511	Telcordia Issue 1	Level I		1.00	0.004625	.0245	216222765.25
11E1647650	Capacitor	C533,C536	Telcordia Issue 1	Level I		2.00	0.044954	.4760	22244941.64
1124468090	Capacitor	C535	Telcordia Issue 1	Level I		1.00	0.004625	.0245	216222765.25
1304101340	Semiconductor	D1,D43	Telcordia Issue 1	Level I		2.00	0.005342	.0566	187200330.10

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Temp. (°C) 26.00



Description Top-level assembly
File Name TF-PFM-945C-A10-01.RPJ
Time 2:19 下午
Failure Rate 18.888485
MTBF 52,942

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1305099140	Semiconductor	D3,D4	Telcordia Issue 1	Level I		2.00	0.081916	.8674	12207573.09
1301005440	Semiconductor	D13,D17,D29,D49,D5	Telcordia Issue 1	Level I		5.00	0.024575	.6505	40691910.29
1304001340	Semiconductor	D6	Telcordia Issue 1	Level I		1.00	0.005342	.0283	187200330.10
1301053040	Semiconductor	D23,D32,D7,D9	Telcordia Issue 1	Level I		4.00	0.024575	.5204	40691910.29
1301003440	Semiconductor	D10,D41,D42,D8	Telcordia Issue 1	Level I		4.00	0.024575	.5204	40691910.29
1301005442	Semiconductor	D11,D14,D20,D31	Telcordia Issue 1	Level I		4.00	0.024575	.5204	40691910.29
1305100541	Semiconductor	D15,D16,D18,D19, D24,D25,D26,D27, D44,D45,D46,D47, D48	Telcordia Issue 1	Level I		13.00	0.024575	1.6914	40691910.29
1300001440	Semiconductor	D21,D22,D33,D34	Telcordia Issue 1	Level I		4.00	0.024575	.5204	40691910.29
1212306030	Inductor	FB1,FB15,FB16,FB18, FB20	Telcordia Issue 1	Level I		5.00	0.002312	.0612	432445530.49
1212306035	Inductor	FB17,FB2,FB3,FB4, FB5,FB6,FB7,FB8	Telcordia Issue 1	Level I		8.00	0.002312	.0979	432445530.49
12123C0007	Inductor	FB25,FB26,FB9	Telcordia Issue 1	Level I		3.00	0.002312	.0367	432445530.49
121230603D	Inductor	FB11,FB12,FB13	Telcordia Issue 1	Level I		3.00	0.002312	.0367	432445530.49
1059700001	Resistor	FB19,FB21,FB24, R183,R516,R527	Telcordia Issue 1	Level I		6.00	0.002312	.0735	432445530.49
12123C0006	Inductor	FB22,FB23	Telcordia Issue 1	Level I		2.00	0.002312	.0245	432445530.49
1211100102	Inductor	FB27,FB32	Telcordia Issue 1	Level I		2.00	0.087872	.9304	11380145.54
121110100P	Inductor	FB28,FB30	Telcordia Issue 1	Level I		2.00	0.087872	.9304	11380145.54
12123B0006	Inductor	FB29	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
1212308054	Inductor	FB31	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
105A700003	Resistor	FB10,FB33,FB34, FB35,R235,R237, R256,R26,R34,R62	Telcordia Issue 1	Level I		10.00	0.002312	.1224	432445530.49
1752000501	Miscellaneous	FS1	Telcordia Issue 1	Level I		1.00	0.003000	.0159	333333333.33
1752011000	Miscellaneous	FS2	Telcordia Issue 1	Level I		1.00	0.003000	.0159	333333333.33
1752001601	Miscellaneous	FS3,FS4,FS5	Telcordia Issue 1	Level I		3.00	0.003000	.0476	333333333.33
1129610260	Capacitor	HC1	Telcordia Issue 1	Level I		1.00	0.004625	.0245	216222765.25
121110156A	Inductor	L1,L5	Telcordia Issue 1	Level I		2.00	0.087872	.9304	11380145.54
1211000180	Inductor	L2	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
121110226C	Inductor	L3,L6	Telcordia Issue 1	Level I		2.00	0.087872	.9304	11380145.54
121110226C	Inductor	L4	Telcordia Issue 1	Level I	16.60	1.00	0.119343	.6318	8379227.67
1310390413	Semiconductor	Q23,Q24,Q3,Q6	Telcordia Issue 1	Level I		4.00	0.024575	.5204	40691910.29
1315662210	Semiconductor	Q2	Telcordia Issue 1	Level I		1.00	0.081916	.4337	12207573.09
1315442910	Semiconductor	Q5	Telcordia Issue 1	Level I	11.10	1.00	0.111190	.5887	8993646.63
1311390610	Semiconductor	Q19,Q20	Telcordia Issue 1	Level I		2.00	0.024575	.2602	40691910.29
1315230511	Semiconductor	Q27	Telcordia Issue 1	Level I		1.00	0.081916	.4337	12207573.09

AAEON Reliability Prediction Report

Part Number 9697945C01-D
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Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 26.00



Description Top-level assembly
File Name TF-PFM-945C-A10-01.RPJ
Time 2:19 下午
Failure Rate 18.888485
MTBF 52,942

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1315030110	Semiconductor	Q28,Q29	Telcordia Issue 1	Level I		2.00	0.000000	.0000	.00
1315035110	Semiconductor	Q38	Telcordia Issue 1	Level I		1.00	0.081916	.4337	12207573.09
1540782282	Resistor	RP1,RP12,RP14,RP16, RP2	Telcordia Issue 1	Level I		5.00	0.013074	.3461	76485360.14
1540733085	Resistor	RP10,RP11,RP3,RP4, RP5,RP6,RP7,RP8, RP9	Telcordia Issue 1	Level I		9.00	0.006537	.3115	152970720.28
1540747285	Resistor	RP13,RP15,RP17, RP19	Telcordia Issue 1	Level I		4.00	0.006537	.1384	152970720.28
1540710382	Resistor	RP18	Telcordia Issue 1	Level I		1.00	0.006537	.0346	152970720.28
106B503331	Resistor	RT1	Telcordia Issue 1	Level I		1.00	0.011988	.0635	83418531.16
105A700009	Resistor	R100,R108,R129,R13, R132,R133,R134, R136,R139,R16,R169, R171,R182,R191, R199,R2,R207,R215, R226,R234,R239, R252,R291,R302, R385,R391,R402, R406,R410,R415, R442,R463,R466, R467,R468,R469, R472,R475,R476, R477,R478,R490,	Telcordia Issue 1	Level I		47.00	0.002312	.5754	432445530.49
105A503309	Resistor	R101,R106,R162, R172,R173,R174,R23, R241,R3,R327,R335, R354,R526,R58,R76, R80,R81,R82,R84, R85,R96	Telcordia Issue 1	Level I		21.00	0.002312	.2571	432445530.49
105A733009	Resistor	R157,R158,R165, R166,R167,R168, R267,R279,R349,R5, R57	Telcordia Issue 1	Level I		11.00	0.002312	.1347	432445530.49
1050510034	Resistor	R149,R170,R18,R188, R208,R213,R229,R24, R254,R35,R412,R413, R418,R419,R48,R54, R6,R7	Telcordia Issue 1	Level I		18.00	0.002312	.2204	432445530.49
105A502039	Resistor	R159,R9	Telcordia Issue 1	Level I		2.00	0.002312	.0245	432445530.49

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MTBF 52,942

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A500239	Resistor	R147,R153,R189, R203,R264,R295, R307,R364,R370, R371,R409,R427,R44, R443,R453,R67,R73	Telcordia Issue 1	Level I		17.00	0.002312	.2081	432445530.49
105A510009	Resistor	R114,R128,R164, R186,R187,R214, R227,R321,R393, R496,R497,R498,R75, R79,R89,R90	Telcordia Issue 1	Level I		16.00	0.002312	.1959	432445530.49
1050522104	Resistor	R113,R88	Telcordia Issue 1	Level I		2.00	0.002312	.0245	432445530.49
1050524904	Resistor	R111,R404,R430, R455,R93	Telcordia Issue 1	Level I		5.00	0.002312	.0612	432445530.49
1050520004	Resistor	R95	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
105A703909	Resistor	R103,R104,R142, R146,R431,R441,R99	Telcordia Issue 1	Level I		7.00	0.002312	.0857	432445530.49
105A708229	Resistor	R102,R123,R127, R130,R135,R278, R325,R326,R347, R355,R356,R372, R374,R392	Telcordia Issue 1	Level I		14.00	0.002312	.1714	432445530.49
105A522669	Resistor	R105	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
105A502403	Resistor	R119	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
1050505604	Resistor	R140,R220,R225, R236,R257,R258, R261,R265,R272, R300,R322,R328, R333,R343,R344, R348,R353,R357, R361,R362,R368, R378,R379,R381, R389,R394,R401, R405,R411,R420, R424,R428,R444, R447,R449,R451, R454	Telcordia Issue 1	Level I		37.00	0.002312	.4530	432445530.49
1050504734	Resistor	R141	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
105A507509	Resistor	R144,R152,R217, R250,R255,R266, R479	Telcordia Issue 1	Level I		7.00	0.002312	.0857	432445530.49
105A515009	Resistor	R145,R148,R154, R383,R384,R388, R523	Telcordia Issue 1	Level I		7.00	0.002312	.0857	432445530.49
1050516229	Resistor	R175	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
105A518229	Resistor	R176	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
105A706829	Resistor	R180,R198	Telcordia Issue 1	Level I		2.00	0.002312	.0245	432445530.49
105A509123	Resistor	R200	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49

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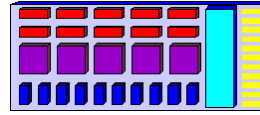


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1050530124	Resistor	R202	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
1050501234	Resistor	R205	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
105A523713	Resistor	R206	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
105A501413	Resistor	R221,R306	Telcordia Issue 1	Level I		2.00	0.002312	.0245	432445530.49
105A701059	Resistor	R224,R525	Telcordia Issue 1	Level I		2.00	0.002312	.0245	432445530.49
105A706809	Resistor	R251	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
105A747039	Resistor	R270	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
105A705139	Resistor	R275,R286,R293, R303,R319	Telcordia Issue 1	Level I		5.00	0.002312	.0612	432445530.49
105A561909	Resistor	R276	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
1050564904	Resistor	R284	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
105A701069	Resistor	R310,R334,R346	Telcordia Issue 1	Level I		3.00	0.013875	.2204	72074255.08
1050502734	Resistor	R318	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
105A533233	Resistor	R332	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
1050580664	Resistor	R345,R376	Telcordia Issue 1	Level I		2.00	0.002312	.0245	432445530.49
105A549919	Resistor	R386	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
1050525504	Resistor	R387	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
105A501529	Resistor	R395	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
105A700103	Resistor	R459	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
1050502234	Resistor	R471	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
1050532414	Resistor	R473	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
1600000203	Connection	S1	Telcordia Issue 1	Level I		1.00	0.001199	.0063	834185311.58
14S3110200	Inductor	TF1	Telcordia Issue 1	Level I		1.00	0.138746	.7346	7207425.51
1315997510	Semiconductor	U2,U30	Telcordia Issue 1	Level I		2.00	0.081916	.8674	12207573.09
14S2045400	Integrated Circuit	U3	Telcordia Issue 1	Level I		1.00	0.063856	.3381	15660198.22
14S9708000	Integrated Circuit	U20,U4	Telcordia Issue 1	Level I		2.00	0.063856	.6761	15660198.22
14S2048800	Integrated Circuit	U5	Telcordia Issue 1	Level I		1.00	0.063856	.3381	15660198.22
14S4195710	Integrated Circuit	U36,U6	Telcordia Issue 1	Level I		2.00	0.063856	.6761	15660198.22
14S4160020	Integrated Circuit	U7	Telcordia Issue 1	Level I	27.40	1.00	0.120223	.6365	8317885.61
14S5A00830	Integrated Circuit	U50,U8	Telcordia Issue 1	Level I		2.00	0.027762	.2940	36019927.89
14S6863100	Integrated Circuit	U12,U16,U33, U42,U47,U51,U9	Telcordia Issue 1	Level I		7.00	0.707045	26.2028	1414336.38
14S6863100	Integrated Circuit	U13	Telcordia Issue 1	Level I	8.80	1.00	1.164753	6.1665	858551.07
14S4255101	Integrated Circuit	U10	Telcordia Issue 1	Level I	15.20	1.00	0.064607	.3420	15478200.94
14S3050100	Integrated Circuit	U11	Telcordia Issue 1	Level I		1.00	0.063856	.3381	15660198.22
14S4294503	Integrated Circuit	U14	Telcordia Issue 1	Level I	11.30	1.00	0.052431	.2776	19072689.46
14S428010D	Integrated Circuit	U15	Telcordia Issue 1	Level I	12.90	1.00	0.057157	.3026	17495678.06
14S4331100	Integrated Circuit	U17,U22,U23	Telcordia Issue 1	Level I		3.00	0.063856	1.0142	15660198.22

AAEON Reliability Prediction Report

Part Number 9697945C01-D
Reference Des
Date 07. 28, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 26.00



Description Top-level assembly
File Name TF-PFM-945C-A10-01.RPJ
Time 2:19 下午
Failure Rate 18.888485
MTBF 52,942

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S4331100	Integrated Circuit	U21	Telcordia Issue 1	Level I	8.20	1.00	0.114046	.6038	8768420.82
14S2200900	Integrated Circuit	U18	Telcordia Issue 1	Level I		1.00	0.063856	.3381	15660198.22
1314531710	Integrated Circuit	U19,U38	Telcordia Issue 1	Level I		2.00	0.063856	.6761	15660198.22
14S3524700	Integrated Circuit	U24	Telcordia Issue 1	Level I		1.00	0.063856	.3381	15660198.22
14S4081110	Integrated Circuit	U25,U29	Telcordia Issue 1	Level I		2.00	0.063856	.6761	15660198.22
14S3065500	Integrated Circuit	U26	Telcordia Issue 1	Level I	15.70	1.00	0.188782	.9995	5297125.05
14S2041700	Integrated Circuit	U27	Telcordia Issue 1	Level I	12.70	1.00	0.056546	.2994	17684585.75
14S2041700	Integrated Circuit	U28	Telcordia Issue 1	Level I		1.00	0.027762	.1470	36019927.89
14S5A73200	Integrated Circuit	U31	Telcordia Issue 1	Level I		1.00	0.027762	.1470	36019927.89
14S5812301	Integrated Circuit	U34	Telcordia Issue 1	Level I		1.00	0.027762	.1470	36019927.89
14S6334610	Integrated Circuit	U35	Telcordia Issue 1	Level I		1.00	0.024678	.1307	40521517.74
1315525011	Semiconductor	U37,U45	Telcordia Issue 1	Level I		2.00	0.081916	.8674	12207573.09
14S5A01400	Integrated Circuit	U39	Telcordia Issue 1	Level I		1.00	0.063856	.3381	15660198.22
14S5812502	Integrated Circuit	U40	Telcordia Issue 1	Level I		1.00	0.027762	.1470	36019927.89
14S4348500	Integrated Circuit	U43,U44	Telcordia Issue 1	Level I		2.00	0.027762	.2940	36019927.89
14S5A12505	Integrated Circuit	U46	Telcordia Issue 1	Level I		1.00	0.063856	.3381	15660198.22
14S4311401	Integrated Circuit	U49	Telcordia Issue 1	Level I	9.90	1.00	0.128122	.6783	7805069.04
14S4600003	Integrated Circuit	U52	Telcordia Issue 1	Level I		1.00	0.063856	.3381	15660198.22
1315155510	Integrated Circuit	U53,U54,U55	Telcordia Issue 1	Level I		3.00	0.063856	1.0142	15660198.22
1231324555	Miscellaneous	Y1	Telcordia Issue 1	Level I		1.00	0.150000	.7941	6666666.67
123131435B	Miscellaneous	Y2	Telcordia Issue 1	Level I		1.00	0.150000	.7941	6666666.67
1231325058	Miscellaneous	Y3	Telcordia Issue 1	Level I		1.00	0.150000	.7941	6666666.67
1231332722	Miscellaneous	Y4	Telcordia Issue 1	Level I		1.00	0.150000	.7941	6666666.67
1655909032	Connection	CN23	Telcordia Issue 1	Level I		1.00	0.001199	.0063	834185311.58
1050513034	Resistor	R201,R46	Telcordia Issue 1	Level I		2.00	0.002312	.0245	432445530.49
105A527469	Resistor	R280,R50	Telcordia Issue 1	Level I		2.00	0.002312	.0245	432445530.49
105A554969	Resistor	R109,R233,R240, R277,R51,R92	Telcordia Issue 1	Level I		6.00	0.002312	.0735	432445530.49
105A703329	Resistor	R55	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
1050549904	Resistor	R185,R59	Telcordia Issue 1	Level I		2.00	0.002312	.0245	432445530.49
105A701009	Resistor	R117,R118,R196, R197,R209,R210, R216,R336,R71	Telcordia Issue 1	Level I		9.00	0.002312	.1102	432445530.49
1315700217	Semiconductor	Q1,Q10,Q11,Q12,Q13, Q14,Q15,Q16,Q17, Q18,Q21,Q22,Q25, Q30,Q31,Q32,Q33,Q4, Q7,Q8,Q9	Telcordia Issue 1	Level I		21.00	0.081916	9.1074	12207573.09
16540F6100	Connection	CN21	Telcordia Issue 1	Level I		1.00	0.001199	.0063	834185311.58
1654907100	Connection	CN14	Telcordia Issue 1	Level I		1.00	0.004196	.0222	238338660.45

AAEON Reliability Prediction Report

Part Number 9697945C01-D
Reference Des
Date 07. 28, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 26.00



Description Top-level assembly
File Name TF-PFM-945C-A10-01.RPJ
Time 2:19 下午
Failure Rate 18.888485
MTBF 52,942

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A516033	Resistor	R222	Telcordia Issue 1	Level I		1.00	0.002312	.0122	432445530.49
105A514014	Resistor	R219,R312	Telcordia Issue 1	Level I		2.00	0.002312	.0245	432445530.49
1122722080	Capacitor	C276,C538	Telcordia Issue 1	Level I		2.00	0.005501	.0583	181774505.62
11C4512290	Capacitor	C260	Telcordia Issue 1	Level I		1.00	0.004625	.0245	216222765.25
14S62945C0	Integrated Circuit	U32	Telcordia Issue 1	Level I		1.00	0.024678	.1307	40521517.74
14S6201601	Integrated Circuit		Telcordia Issue 1	Level I		1.00	0.183084	.9693	5461979.97
1655902030	Connection	BAT1	Telcordia Issue 1	Level I		1.00	0.001199	.0063	834185311.58
1655910131	Connection	CN1	Telcordia Issue 1	Level I		1.00	0.001199	.0063	834185311.58
1655908130	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.001199	.0063	834185311.58
1655906032	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.003596	.0190	278061770.53
1655905035	Connection	CN4	Telcordia Issue 1	Level I		1.00	0.001199	.0063	834185311.58
1653130429	Connection	CN5	Telcordia Issue 1	Level I		1.00	0.001199	.0063	834185311.58
1655914031	Connection	CN6	Telcordia Issue 1	Level I		1.00	0.001199	.0063	834185311.58
1655304020	Connection	CN8	Telcordia Issue 1	Level I		1.00	0.002398	.0127	417092655.79
165320520E	Connection	CN9	Telcordia Issue 1	Level I		1.00	0.005994	.0317	166837062.32
1655905032	Connection	CN10,CN11,CN12, CN13	Telcordia Issue 1	Level I		4.00	0.001199	.0254	834185311.58
1655913030	Connection	CN16	Telcordia Issue 1	Level I		1.00	0.001199	.0063	834185311.58
1655909031	Connection	CN17,CN18,CN19, CN20	Telcordia Issue 1	Level I		4.00	0.001199	.0254	834185311.58
1655303020	Connection	CN22	Telcordia Issue 1	Level I		1.00	0.001798	.0095	556123541.06
1653003101	Connection	JP1,JP2,JP3,JP4	Telcordia Issue 1	Level I		4.00	0.001798	.0381	556123541.06
1653003201	Connection	JP5	Telcordia Issue 1	Level I		1.00	0.001199	.0063	834185311.58
1653002101	Connection	JP6	Telcordia Issue 1	Level I		1.00	0.001199	.0063	834185311.58
1653300108	Connection	JP1(1-2)	Telcordia Issue 1	Level I		1.00	0.001199	.0063	834185311.58
1653300107	Connection	JP2(2-3),JP3(2-3), JP4(2-3),JP5(5-6)	Telcordia Issue 1	Level I		4.00	0.001199	.0254	834185311.58
1653300102	Connection	JP6(1-2)	Telcordia Issue 1	Level I		1.00	0.001199	.0063	834185311.58
175011901C	Miscellaneous	BAT1	Telcordia Issue 1	Level I		1.00	0.900000	4.7648	1111111.11
1652602105	Connection	CN7	Telcordia Issue 1	Level I		1.00	0.001199	.0063	834185311.58