

PFM-CVS

Reliability Prediction Report

(MTBF)

Summary	Failure Rate: 14.149163 ppm MTBF: 70,676 Hours
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Issue date	Approval	Test Engineer
2012/04/30	Vincent Chen	Jessica Chou

Reliability Prediction (MTBF)

I . Model Name: PFM-CVS

II . Prediction Date: Apr. 30, 2012

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 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:

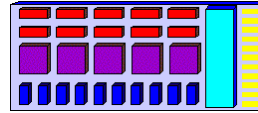
PFM-CVS(9697CVS002-D):

- Failure Rate: 14.149163 ppm

- MTBF: 70,676 Hours

AAEON Reliability Prediction Report

Part Number 9697CVS002-D
Reference Des
Date 04. 30, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

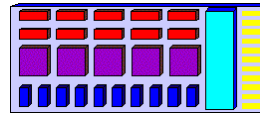


Description Top-level assembly
File Name PFM-CVS.RPJ
Time 14:02
Failure Rate 14.149163
MTBF 70,676

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
PFM-CVS	9697CVS002-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	14.15	70675.56

AAEON Reliability Prediction Report

Part Number 9697CVS002-D
Reference Des
Date 04. 30, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

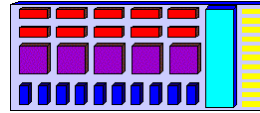


Description Top-level assembly
File Name PFM-CVS.RPJ
Time 14:02
Failure Rate 14.149163
MTBF 70,676

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1214309008	Inductor	CH1,CH2,CH3,CH4	Telcordia Issue 1	Level I		4.00	0.002268	.0641	440974090.03
1654020004	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.011379	.0804	87878027.07
1654926900	Connection	CN14-1	Telcordia Issue 1	Level I		1.00	0.029586	.2091	33799241.18
1654226303	Connection	CN14	Telcordia Issue 1	Level I		1.00	0.001138	.0080	878780270.71
11E9501091	Capacitor	C1,C10,C100,C103, C104,C111,C117, C118,C12,C15,C16, C17,C19,C20,C21, C25,C29,C308,C31, C346,C347,C348,C35, C352,C39,C393,C394, C397,C40,C400,C414, C420,C43,C44,C45, C46,C49,C50,C51, C526,C54,C55,C58, C6,C627,C628,C88, C9,C92,C93,C94,	Telcordia Issue 1	Level I		56.00	0.004535	1.7950	220487045.01
1121501691	Capacitor	C101,C102,C105, C110,C114,C115, C127,C129,C132, C133,C134,C135, C136,C137,C139, C140,C141,C142, C145,C148,C164,C23, C37,C413,C449,C5, C576,C577,C578, C581,C588,C589, C590,C591,C593, C594,C595,C601, C603,C604,C605,	Telcordia Issue 1	Level I		58.00	0.004535	1.8591	220487045.01
1129701790	Capacitor	C108,C74,C75,C76, C77,C78,C79,C8,C80, C81,TC20,TC22,TC28, TC31,TC33,TC38, TC39,TC43,TC44, TC46	Telcordia Issue 1	Level I		20.00	0.004535	.6411	220487045.01
11E9622080	Capacitor	C13,C22,C24,C32, C33,C34,C398,C422, C435,C532,C538, C615,C641,C644	Telcordia Issue 1	Level I		14.00	0.004535	.4488	220487045.01
1129622690	Capacitor	C128,C130,C26,C27, C28,C30,C41,C427, C438,C48	Telcordia Issue 1	Level I		10.00	0.004535	.3205	220487045.01
11E9647680	Capacitor	C36,C38	Telcordia Issue 1	Level I		2.00	0.004535	.0641	220487045.01

AAEON Reliability Prediction Report

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Temp. (°C) 25.00

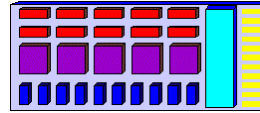


Description Top-level assembly
File Name PFM-CVS.RPJ
Time 14:02
Failure Rate 14.149163
MTBF 70,676

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1124418190	Capacitor	C180,C181,C184, C185,C186,C187, C188,C189,C193, C195,C197,C198, C199,C200,C201, C202,C205,C206, C210,C211,C212, C213,C214,C215, C220,C221,C223, C224,C225,C226, C227,C228	Telcordia Issue 1	Level I		32.00	0.004535	1.0257	220487045.01
11C4547190	Capacitor	C306,C310	Telcordia Issue 1	Level I		2.00	0.004535	.0641	220487045.01
1189610151	Capacitor	C307,C311,C405, C412,C417	Telcordia Issue 1	Level I		5.00	0.004535	.1603	220487045.01
11E2501690	Capacitor	C358,C360,C370, C430,C431,C439, C447,C579,C580, C608,C611,C614, SC10,SC14,SC16, SC17,SC20,SC21, SC23,SC29,SC32, SC34,SC37,SC39, SC40,SC42,SC43,SC9, TC24,TC26,TC29, TC32	Telcordia Issue 1	Level I		32.00	0.004535	1.0257	220487045.01
11E2522060	Capacitor	C361,C371,C382, C429,C612	Telcordia Issue 1	Level I		5.00	0.004535	.1603	220487045.01
11C4522290	Capacitor	C362,C373,C395	Telcordia Issue 1	Level I		3.00	0.004535	.0962	220487045.01
1189615151	Capacitor	C366,C377,C407	Telcordia Issue 1	Level I		3.00	0.004535	.0962	220487045.01
11E1522680	Capacitor	C384	Telcordia Issue 1	Level I		1.00	0.004535	.0321	220487045.01
11E2501080	Capacitor	C357,C386,TC19, TC23,TC27,TC34, TC36,TC40,TC42, TC47	Telcordia Issue 1	Level I		10.00	0.004535	.3205	220487045.01
1189622152	Capacitor	C120,C389	Telcordia Issue 1	Level I		2.00	0.004535	.0641	220487045.01
11E2510060	Capacitor	C402,TC12,TC15,TC2, TC8	Telcordia Issue 1	Level I		5.00	0.004535	.1603	220487045.01
11E9622052	Capacitor	C379	Telcordia Issue 1	Level I		1.00	0.004535	.0321	220487045.01
1189627150	Capacitor	C432,C616	Telcordia Issue 1	Level I		2.00	0.004535	.0641	220487045.01
11C4522190	Capacitor	C443,C623,C630, C636	Telcordia Issue 1	Level I		4.00	0.004535	.1282	220487045.01
1129610260	Capacitor	C571	Telcordia Issue 1	Level I		1.00	0.004535	.0321	220487045.01
1124405090	Capacitor	C582,C583,C584, C585	Telcordia Issue 1	Level I		4.00	0.004535	.1282	220487045.01
1124468090	Capacitor	C442,C622	Telcordia Issue 1	Level I		2.00	0.004535	.0641	220487045.01
1129701791	Capacitor	C635	Telcordia Issue 1	Level I		1.00	0.004535	.0321	220487045.01
16515A2992	Connection	DIMM1	Telcordia Issue 1	Level I		1.00	0.001138	.0080	878780270.71
1301053040	Semiconductor	D4	Telcordia Issue 1	Level I		1.00	0.023881	.1688	41874327.58

AAEON Reliability Prediction Report

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Temp. (°C) 25.00

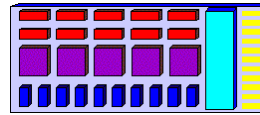


Description Top-level assembly
File Name PFM-CVS.RPJ
Time 14:02
Failure Rate 14.149163
MTBF 70,676

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1301005444	Semiconductor	D13,D14,D16,D5,D6, D7,D8	Telcordia Issue 1	Level I		7.00	0.023881	1.1815	41874327.58
1301400541	Semiconductor	D11,D12	Telcordia Issue 1	Level I		2.00	0.023881	.3376	41874327.58
1305099140	Semiconductor	D15,D17	Telcordia Issue 1	Level I		2.00	0.079603	1.1252	12562298.27
1301005442	Semiconductor	D22,D26,D28	Telcordia Issue 1	Level I		3.00	0.023881	.5063	41874327.58
1301400642	Semiconductor	D24	Telcordia Issue 1	Level I		1.00	0.023881	.1688	41874327.58
105A720009	Resistor	R847,R868	Telcordia Issue 1	Level I		2.00	0.002268	.0321	440974090.03
1305080040	Semiconductor	ESD1,ESD10,ESD11, ESD12,ESD5,ESD6, ESD7,ESD8,ESD9	Telcordia Issue 1	Level I		9.00	0.023881	1.5190	41874327.58
1212306030	Resistor	FB1,FB21,FB3,FB4, FB5	Telcordia Issue 1	Level I		5.00	0.011379	.4021	87878027.07
1212306031	Inductor	FB2	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
12123D0001	Inductor	FB6,FB7,FB8	Telcordia Issue 1	Level I		3.00	0.002268	.0481	440974090.03
12123C0010	Inductor	FB14,FB15	Telcordia Issue 1	Level I		2.00	0.002268	.0321	440974090.03
12123D0000	Inductor	FB32	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
1752001601	Miscellaneous	FS1	Telcordia Issue 1	Level I		1.00	0.003000	.0212	333333333.33
1752000501	Miscellaneous	FS2	Telcordia Issue 1	Level I		1.00	0.003000	.0212	333333333.33
165320520C	Connection	LAN1	Telcordia Issue 1	Level I		1.00	0.005690	.0402	175756054.14
1304000043	Semiconductor	LED1	Telcordia Issue 1	Level I		1.00	0.004877	.0345	205063180.81
1304101440	Semiconductor	LED2,LED3,LED4, LED5	Telcordia Issue 1	Level I		4.00	0.004877	.1379	205063180.81
1211100113	Inductor	L4,L5,L6	Telcordia Issue 1	Level I		3.00	0.002268	.0481	440974090.03
1211100160	Inductor	L7	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
1211133074	Inductor	L11,L12	Telcordia Issue 1	Level I		2.00	0.086173	1.2181	11604581.32
121110156F	Inductor	L14	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
121110336T	Inductor	L15,L16	Telcordia Issue 1	Level I		2.00	0.002268	.0321	440974090.03
1310390412	Semiconductor	Q1,Q2,Q20,Q21,Q59, Q62,Q7,Q8	Telcordia Issue 1	Level I		8.00	0.023881	1.3502	41874327.58
1315700216	Semiconductor	Q10,Q11,Q12,Q13, Q14,Q17,Q18,Q22, Q24,Q29,Q3,Q4,Q42, Q43,Q44,Q45,Q46, Q47,Q48,Q49,Q5,Q50, Q51,Q52,Q6,Q61	Telcordia Issue 1	Level I		26.00	0.079603	14.6276	12562298.27
1315230511	Semiconductor	Q23,Q31,Q33,Q53, Q60,Q9	Telcordia Issue 1	Level I		6.00	0.079603	3.3756	12562298.27
1311390612	Semiconductor	Q15,Q16,Q30	Telcordia Issue 1	Level I		3.00	0.023881	.5063	41874327.58
1315762010	Semiconductor	Q34,Q36,Q57,Q58	Telcordia Issue 1	Level I		4.00	0.000000	.0000	.00
1315806510	Semiconductor	Q38	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
1315806210	Semiconductor	Q39	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
1540782282	Resistor	RN1,RN14,RN2,RN3, RN30,RN31,RN32,RN4, RN5	Telcordia Issue 1	Level I		9.00	0.012492	.7946	80051386.00

AAEON Reliability Prediction Report

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Reference Des
Date 04. 30, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

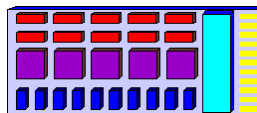


Description Top-level assembly
File Name PFM-CVS.RPJ
Time 14:02
Failure Rate 14.149163
MTBF 70,676

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1540710382	Resistor	RN15,RN16,RN17, RN18,RN19,RN20, RN21,RN22,RN23, RN24,RN25,RN26, RN27,RN28,RN29	Telcordia Issue 1	Level I		15.00	0.006246	.6622	160102772.00
106B501032	Resistor	RT1,RT2,RT3,RT8	Telcordia Issue 1	Level I		4.00	0.011379	.3217	87878027.07
1050569804	Resistor	R527,R805	Telcordia Issue 1	Level I		2.00	0.002268	.0321	440974090.03
105A702229	Resistor	R1,R183,R184,R185, R2,R221,R222,R3, R37,R4,R400,R41,R5, R545,R547,R549, R551,R592,R593,R6, R81,R82,R92,R93	Telcordia Issue 1	Level I		24.00	0.002268	.3847	440974090.03
105A701039	Resistor	R109,R111,R116, R123,R126,R132, R134,R135,R136, R138,R140,R142, R143,R144,R145, R147,R149,R160, R165,R166,R173, R176,R178,R207, R217,R26,R276,R278, R352,R353,R359, R407,R682,R684, R686,R688,R689, R691,R693,R695,	Telcordia Issue 1	Level I		58.00	0.002268	.9296	440974090.03
1050510034	Resistor	R206,R409,R428, R429,R432,R462,R8, R865,R9,R903,R933	Telcordia Issue 1	Level I		11.00	0.002268	.1763	440974090.03
105A700009	Resistor	C47,FB22,R10,R101, R133,R146,R151, R152,R169,R170, R181,R188,R192,R20, R21,R225,R258,R261, R267,R279,R358, R366,R385,R42,R435, R436,R439,R443, R445,R446,R447, R455,R456,R471,R50, R507,R51,R526,R543, R58,R59,R60,R61, R62,R64,R65,R66	Telcordia Issue 1	Level I		85.00	0.002268	1.3623	440974090.03

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Temp. (°C) 25.00

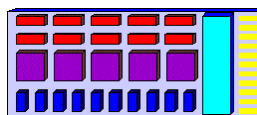


Description Top-level assembly
File Name PFM-CVS.RPJ
Time 14:02
Failure Rate 14.149163
MTBF 70,676

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1050507524	Resistor	R11	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
105A515009	Resistor	R12,R13,R14,R218, R219,R220	Telcordia Issue 1	Level I		6.00	0.002268	.0962	440974090.03
1050501354	Resistor	R883	Telcordia Issue 1	Level I		1.00	0.013606	.0962	73495681.67
105A523713	Resistor	R22	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
105A701059	Resistor	R153,R179,R205, R681, R906, R913	Telcordia Issue 1	Level I		6.00	0.002268	.0962	440974090.03
105A700139	Resistor	R104,R105,R106, R129,R189,R193,R25, R257,R263,R265, R266,R27,R270,R274, R275,R478,R479, R486,R487,R488, R489,R491,R496, R497,R498,R52,R552, R657,R675,R904	Telcordia Issue 1	Level I		30.00	0.002268	.4808	440974090.03
105A500139	Resistor	R161,R162,R163, R164,R28,R29,R291, R351,R398,R424, R426,R766,R887, R902,R912,R915, R917, R923, R925, R95	Telcordia Issue 1	Level I		20.00	0.002268	.3205	440974090.03
105A510009	Resistor	R158,R30,R38,R394, R859,R876	Telcordia Issue 1	Level I		6.00	0.002268	.0962	440974090.03
1050512104	Resistor	R31	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
105A527403	Resistor	R32	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
105A533269	Resistor	R33	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
105A522669	Resistor	R34,R78	Telcordia Issue 1	Level I		2.00	0.002268	.0321	440974090.03
105A549969	Resistor	R202,R203,R39,R40	Telcordia Issue 1	Level I		4.00	0.002268	.0641	440974090.03
105A505109	Resistor	R43,R44,R45,R46, R47,R54	Telcordia Issue 1	Level I		6.00	0.002268	.0962	440974090.03
105A507509	Resistor	R214,R215,R216,R56, R927,R928,R929, R930	Telcordia Issue 1	Level I		8.00	0.002268	.1282	440974090.03
105A700003	Resistor	R514,R540,R57,R793, SR10,SR11,SR12, SR13,SR14,SR15, SR16,SR18,SR19, SR30,SR31,SR32, SR33,SR34,SR35, SR37,SR38,SR40, SR41,SR42,SR43, SR44,SR45,SR5,SR8	Telcordia Issue 1	Level I		29.00	0.002268	.4648	440974090.03
1059700001	Resistor	R63,R713,R787,SR1, SR28,SR29,SR6,SR7	Telcordia Issue 1	Level I		8.00	0.002268	.1282	440974090.03

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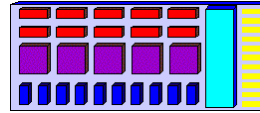


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Time 14:02
Failure Rate 14.149163
MTBF 70,676

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A501039	Resistor	R298,R299,R414, R415,R416,R417, R418,R459,R516, R521,R536,R588, R752,R753,R754, R755,R761,R762, R763,R764,R769, R799,R809,R812, R817,R839,R840, R843,R844,R845, R850,R851,R860, R864,R875,R878, R893,R920,R924	Telcordia Issue 1	Level I		39.00	0.002268	.6251	440974090.03
105A503039	Resistor	R440	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
105A506829	Resistor	R492	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
105A722009	Resistor	R370,R371,R383, R384	Telcordia Issue 1	Level I		4.00	0.002268	.0641	440974090.03
105A733009	Resistor	R392,R756,R757, R758,R759,R823, R824,R922	Telcordia Issue 1	Level I		8.00	0.002268	.1282	440974090.03
105A502039	Resistor	R293,R294,R295, R389,R396,R444, R454,R829,R830, R831,R832	Telcordia Issue 1	Level I		11.00	0.002268	.1763	440974090.03
105A514014	Resistor	R423	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
105A500103	Resistor	R438,R448,R461, R519,R797	Telcordia Issue 1	Level I		5.00	0.002268	.0801	440974090.03
105A515034	Resistor	R450,R451,R520, R800	Telcordia Issue 1	Level I		4.00	0.002268	.0641	440974090.03
1050501234	Resistor	R452,R500,R798	Telcordia Issue 1	Level I		3.00	0.002268	.0481	440974090.03
1050501834	Resistor	R453	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
105A702269	Resistor	R458,R792	Telcordia Issue 1	Level I		2.00	0.002268	.0321	440974090.03
123132505D	Miscellaneous	Y4	Telcordia Issue 1	Level I		1.00	0.150000	1.0601	6666666.67
1050524004	Resistor	R463	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
1050584524	Resistor	R464	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
105A705139	Resistor	R475,R477,R480, R481,R482,R494	Telcordia Issue 1	Level I		6.00	0.002268	.0962	440974090.03
105A505629	Resistor	R484	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
105A502133	Resistor	R493	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
105A501539	Resistor	R499,R914	Telcordia Issue 1	Level I		2.00	0.002268	.0321	440974090.03
1050513034	Resistor	R508,R791	Telcordia Issue 1	Level I		2.00	0.002268	.0321	440974090.03
1050504764	Resistor	R509	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
105A707509	Resistor	R513	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
1050505134	Resistor	R460,R522,R535, R808	Telcordia Issue 1	Level I		4.00	0.002268	.0641	440974090.03

AAEON Reliability Prediction Report

Part Number 9697CVS002-D
Reference Des
Date 04. 30, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

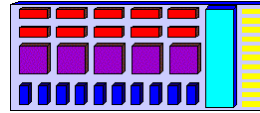


Description Top-level assembly
File Name PFM-CVS.RPJ
Time 14:02
Failure Rate 14.149163
MTBF 70,676

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A501333	Resistor	R524	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
105A500239	Resistor	R296,R483,R495, R818,R821	Telcordia Issue 1	Level I		5.00	0.002268	.0801	440974090.03
1050551004	Resistor	R700,R701,R702, R709	Telcordia Issue 1	Level I		4.00	0.002268	.0641	440974090.03
1050703334	Resistor	R531	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
1050560414	Resistor	R528,R806	Telcordia Issue 1	Level I		2.00	0.002268	.0321	440974090.03
1050505633	Resistor	R538	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
121110476Q	Inductor	L17	Telcordia Issue 1	Level I		1.00	0.086173	.6090	11604581.32
1050700334	Resistor	R529	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
1050504724	Resistor	R297	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
105A712053	Resistor	R862	Telcordia Issue 1	Level I		1.00	0.013606	.0962	73495681.67
105A703329	Resistor	R532	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
1654907104	Connection	SATA1	Telcordia Issue 1	Level I		1.00	0.001138	.0080	878780270.71
14S3003700	Inductor	TF1	Telcordia Issue 1	Level I		1.00	0.136062	.9616	7349568.17
14S4160001	Integrated Circuit	U1	Telcordia Issue 1	Level I	33.30	1.00	0.152307	1.0764	6565669.62
14S4001000	Integrated Circuit	U2	Telcordia Issue 1	Level I	41.60	1.00	0.223860	1.5821	4467085.47
14S3050100	Integrated Circuit	U4	Telcordia Issue 1	Level I	38.00	1.00	0.698715	4.9382	1431197.87
14S3524700	Integrated Circuit	U7	Telcordia Issue 1	Level I		1.00	0.059366	.4196	16844654.92
14S5A00821	Integrated Circuit	U36,U37,U8	Telcordia Issue 1	Level I		3.00	0.026183	.5551	38193355.79
14S2200900	Integrated Circuit	U9	Telcordia Issue 1	Level I		1.00	0.059366	.4196	16844654.92
14S4186600	Integrated Circuit	U10	Telcordia Issue 1	Level I		1.00	0.026183	.1850	38193355.79
14S4021301	Integrated Circuit	U11,U12,U13,U14	Telcordia Issue 1	Level I		4.00	0.059366	1.6783	16844654.92
14S5A12509	Integrated Circuit	U15	Telcordia Issue 1	Level I		1.00	0.059366	.4196	16844654.92
14S5A12506	Integrated Circuit	U16,U63	Telcordia Issue 1	Level I		2.00	0.026183	.3701	38193355.79
14S5A00401	Integrated Circuit	U17	Telcordia Issue 1	Level I		1.00	0.026183	.1850	38193355.79
14S4048503	Integrated Circuit	U18,U19	Telcordia Issue 1	Level I		2.00	0.059366	.8391	16844654.92
1315970211	Semiconductor	U22,U23	Telcordia Issue 1	Level I		2.00	0.159207	2.2504	6281149.14
14S4820900	Integrated Circuit	U25	Telcordia Issue 1	Level I	29.00	1.00	0.123803	.8750	8077331.10
14S5A00704	Integrated Circuit	U30,U31,U32	Telcordia Issue 1	Level I		3.00	0.026183	.5551	38193355.79
14S4081110	Integrated Circuit	U34	Telcordia Issue 1	Level I		1.00	0.059366	.4196	16844654.92
14S4195710	Integrated Circuit	U35	Telcordia Issue 1	Level I		1.00	0.059366	.4196	16844654.92
14S3112300	Integrated Circuit	U38	Telcordia Issue 1	Level I	25.50	1.00	0.104164	.7362	9600209.68
14S3121600	Integrated Circuit	U39	Telcordia Issue 1	Level I		1.00	0.026183	.1850	38193355.79
1315441310	Semiconductor	U40	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
1315444710	Semiconductor	U41,U42	Telcordia Issue 1	Level I		2.00	0.159207	2.2504	6281149.14
14S3973100	Integrated Circuit	U43	Telcordia Issue 1	Level I		1.00	0.059366	.4196	16844654.92
14S3973100	Integrated Circuit	U45	Telcordia Issue 1	Level I	31.30	1.00	0.471469	3.3321	2121032.36

AAEON Reliability Prediction Report

Part Number 9697CVS002-D
Reference Des
Date 04. 30, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name PFM-CVS.RPJ
Time 14:02
Failure Rate 14.149163
MTBF 70,676

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1315443710	Semiconductor	U44	Telcordia Issue 1	Level I	32.00	1.00	0.000000	.0000	.00
14S3816700	Integrated Circuit	U47	Telcordia Issue 1	Level I	29.90	1.00	0.129349	.9142	7731035.61
14S4811102	Integrated Circuit	U56	Telcordia Issue 1	Level I	25.90	1.00	0.106261	.7510	9410782.59
14S5A01402	Integrated Circuit	U61	Telcordia Issue 1	Level I		1.00	0.026183	.1850	38193355.79
14S4888801	Integrated Circuit	U58	Telcordia Issue 1	Level I	29.30	1.00	0.125628	.8879	7959996.56
1231332722	Miscellaneous	Y2	Telcordia Issue 1	Level I		1.00	0.150000	1.0601	6666666.67
123131435J	Miscellaneous	Y3	Telcordia Issue 1	Level I		1.00	0.150000	1.0601	6666666.67
105A524919	Resistor	R807,R916	Telcordia Issue 1	Level I		2.00	0.002268	.0321	440974090.03
105A564903	Resistor	R17	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
1124418090	Capacitor	C642,C643,C82,C83	Telcordia Issue 1	Level I		4.00	0.004535	.1282	220487045.01
1231327053	Miscellaneous	Y5	Telcordia Issue 1	Level I		1.00	0.150000	1.0601	6666666.67
14S5A73200	Integrated Circuit	U62	Telcordia Issue 1	Level I		1.00	0.026183	.1850	38193355.79
1050516229	Resistor	R804	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
131411171C	Integrated Circuit	SQ1	Telcordia Issue 1	Level I		1.00	0.059366	.4196	16844654.92
1129610080	Capacitor	SC1,SC2,SC3	Telcordia Issue 1	Level I		3.00	0.004535	.0962	220487045.01
105A512103	Resistor	SR3	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
105A520003	Resistor	SR4	Telcordia Issue 1	Level I		1.00	0.002268	.0160	440974090.03
105A704723	Resistor	SR24,SR25,SR26, SR27,SR46,SR47, SR48,SR49	Telcordia Issue 1	Level I		8.00	0.002268	.1282	440974090.03
11E9647060	Capacitor	C657,C658	Telcordia Issue 1	Level I		2.00	0.004535	.0641	220487045.01
105A554969	Resistor	R511,R55	Telcordia Issue 1	Level I		2.00	0.002268	.0321	440974090.03
165424920C	Connection	ISA1,ISA2	Telcordia Issue 1	Level I		2.00	0.001138	.0161	878780270.71
175011901M	Miscellaneous	BT1-2	Telcordia Issue 1	Level I		1.00	0.900000	6.3608	1111111.11
1655902030	Connection	BT1	Telcordia Issue 1	Level I		1.00	0.001138	.0080	878780270.71
1655905035	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.001138	.0080	878780270.71
1655302020	Connection	CN5	Telcordia Issue 1	Level I		1.00	0.001138	.0080	878780270.71
165313042B	Connection	CN6	Telcordia Issue 1	Level I		1.00	0.001138	.0080	878780270.71
1655910131	Connection	CN12,CN7	Telcordia Issue 1	Level I		2.00	0.001138	.0161	878780270.71
1652602108	Connection	CN9	Telcordia Issue 1	Level I		1.00	0.001138	.0080	878780270.71
165313222A	Connection	CN11-1,T CN1-1	Telcordia Issue 1	Level I		2.00	0.022759	.3217	43939013.54
165312022B	Connection	CN11-2,T CN1-2	Telcordia Issue 1	Level I		2.00	0.022759	.3217	43939013.54
1655909031	Connection	COM1,COM2,COM3, COM4	Telcordia Issue 1	Level I		4.00	0.005121	.1448	195284504.60
1655303020	Connection	FAN1	Telcordia Issue 1	Level I		1.00	0.001707	.0121	585853513.81
1653003101	Connection	JP11,JP2,JP7,JP8	Telcordia Issue 1	Level I		4.00	0.001707	.0483	585853513.81
1653003201	Connection	JP3,JP6	Telcordia Issue 1	Level I		2.00	0.001138	.0161	878780270.71
14S6203204	Integrated Circuit	U6	Telcordia Issue 1	Level I		1.00	0.026183	.1850	38193355.79

