

PFM-P13D Reliability Prediction Report (MTBF)

Report NO : 08E070029

9-16-2008

Issue Date

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Reliability Prediction (MTBF)

I . **Model Name:** PFM-P13D

II . **Prediction Date:** Sep. 16, 2008

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

IV . **Predicted by :** Jessica Chou

V . **Equipment:** Relex Ver.7.3 Visual Reliability Software

VI. Simulation Environment:

- Temperature: 25 degree C
- Standard: Telcordia (Bellcore) 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-P13D
 - Failure Rate: 2.322705 ppm
 - MTBF: 430,532 Hours

AAEON Reliability Prediction Report

Part Number 9697P13D02-DIP
Reference Des
Date 09. 16, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

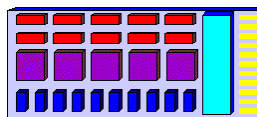


Description Top-level assembly
File Name PFM-P13D.RPJ
Time 10:56 上午
Failure Rate 2.322705
MTBF 430,532

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
PFM-P13D	9697P13D02-DIP	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	2.322705	430,532

AAEON Reliability Prediction Report

Part Number 9697P13D02-DIP
Reference Des
Date 09. 16, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name PFM-P13D.RPJ
Time 10:56 上午
Failure Rate 2.322705
MTBF 430,532

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1653120226	Connection	CN5	Bellcore Issue 6	Level I		0.022759	1.00	.9798	0.022759	43939013.54
1653132221	Connection	CN5	Bellcore Issue 6	Level I		0.036414	1.00	1.5677	0.036414	27461883.46
1211101001	Inductor	L5	Bellcore Issue 6	Level I		0.086173	1.00	3.7100	0.086173	11604581.32
1182627130	Capacitor	C18,C19	Bellcore Issue 6	Level I		0.004535	2.00	.3905	0.009071	220487045.01
1211100600	Inductor	L1	Bellcore Issue 6	Level I		0.086173	1.00	3.7100	0.086173	11604581.32
1652602101	Connection	CN2	Bellcore Issue 6	Level I		0.022759	1.00	.9798	0.022759	43939013.54
1652602201	Connection	CN2	Bellcore Issue 6	Level I		0.022759	1.00	.9798	0.022759	43939013.54
1652603200	Connection	CN3	Bellcore Issue 6	Level I		0.022759	1.00	.9798	0.022759	43939013.54
1114633130	Capacitor	C10,C33	Bellcore Issue 6	Level I		0.042673	2.00	3.6744	0.085346	23434140.55
1189668110	Capacitor	C14,C15	Bellcore Issue 6	Level I		0.004535	2.00	.3905	0.009071	220487045.01
1211100601	Inductor	L2	Bellcore Issue 6	Level I		0.086173	1.00	3.7100	0.086173	11604581.32
105A501033	Resistor	R3	Bellcore Issue 6	Level I		0.002268	1.00	.0976	0.002268	440974090.03
105A539003	Resistor	R33	Bellcore Issue 6	Level I		0.002268	1.00	.0976	0.002268	440974090.03
105A700003	Resistor	C7,R11,R16,R19,R26,R27,R7	Bellcore Issue 6	Level I		0.002268	7.00	.6834	0.015874	440974090.03
105A701033	Resistor	R17,R25	Bellcore Issue 6	Level I		0.002268	2.00	.1953	0.004535	440974090.03
1059501001	Resistor	R40	Bellcore Issue 6	Level I		0.002268	1.00	.0976	0.002268	440974090.03
1059700001	Resistor	R42,R43	Bellcore Issue 6	Level I		0.002268	2.00	.1953	0.004535	440974090.03
1059700101	Resistor	R9	Bellcore Issue 6	Level I		0.002268	1.00	.0976	0.002268	440974090.03
105A501223	Resistor	R36	Bellcore Issue 6	Level I		0.002268	1.00	.0976	0.002268	440974090.03
105A512413	Resistor	R31,R32	Bellcore Issue 6	Level I		0.002268	2.00	.1953	0.004535	440974090.03
105A524913	Resistor	R28	Bellcore Issue 6	Level I		0.002268	1.00	.0976	0.002268	440974090.03
105A702033	Resistor	R6	Bellcore Issue 6	Level I		0.002268	1.00	.0976	0.002268	440974090.03
105A704733	Resistor	R39	Bellcore Issue 6	Level I		0.002268	1.00	.0976	0.002268	440974090.03
105A710033	Resistor	R12	Bellcore Issue 6	Level I		0.002268	1.00	.0976	0.002268	440974090.03
1122722780	Capacitor	C12,C32,C41	Bellcore Issue 6	Level I		0.004535	3.00	.5858	0.013606	220487045.01
1124510180	Capacitor	C5,C6	Bellcore Issue 6	Level I		0.004535	2.00	.3905	0.009071	220487045.01
1124510280	Capacitor	C43	Bellcore Issue 6	Level I		0.004535	1.00	.1953	0.004535	220487045.01
1124447180	Capacitor	C63	Bellcore Issue 6	Level I		0.004535	1.00	.1953	0.004535	220487045.01
1124701680	Capacitor	C11,C17,C2,C25,C31,C37,C42,C49-C51-C54,C56,C57,C60,C9	Bellcore Issue 6	Level I		0.004535	16.00	3.1242	0.072567	220487045.01
105A553623	Resistor	R4	Bellcore Issue 6	Level I		0.002268	1.00	.0976	0.002268	440974090.03

