

PFM-HDS

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 10630.346288 ppm MTBF:94,070 Hours
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Issue date

2013/04/26

Approval

Tom Lin

Test Engineer

Leo Liu

Reliability Prediction (MTBF)

I . Model Name: PFM-HDS

II . Prediction Date: Apr. 26, 2013

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

IV . Predicted by: Leo Liu

V . Equipment: Windchill Quality Solution Ver.10.1 Visual Reliability Software

VI. Simulation Environment:

- Temperature: 30 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 1,000,000.000
- MTBF : MTBF is always specified in hours.

VIII. Prediction Result:

PFM-HDS (9697HDS002-D):

- Failure Rate: 10630.346288 ppm

- MTBF: 94,070 Hours

**AAEON Reliability Prediction
Summary**

File Name: 9697HDS002-D.rfp
Duty Cycle: 100
Calculation Model: Telcordia Issue 2
Method: Method I Case 3

Failure Rate: 10630.346288
MTBF (hrs): 94,070
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
PFM-HDS	System		1	10630.346288	94,070

File Name: 9697HDS002-D.rfp
Assembly: System
Ref Des:
Description:

Failure Rate: 10630.346288
MTBF (hrs): 94,070
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050502204	Resistor	R477		2.547039	1	282340674.079668
1050502234	Resistor	R555		2.547039	1	282340674.079668
1050502734	Resistor	R370,R476		2.547039	2	154078778.388085
1050504724	Resistor	R332,R336,R346, R365		2.547039	4	82309758.689546
1050505124	Resistor	R86		2.547039	1	282340674.079668
1050505164	Resistor	R458		2.547039	1	282340674.079668
1050510034	Resistor	R113		2.547039	1	282340674.079668
1050511524	Resistor	R414		2.547039	1	282340674.079668
1050512724	Resistor	R435,R480		2.547039	2	154078778.388085
1050514034	Resistor	R325,R326,R327, R328		2.547039	4	82309758.689546
1050516924	Resistor	R499		2.547039	1	282340674.079668
1050525524	Resistor	R442		2.547039	1	282340674.079668
1050533034	Resistor	R501		2.547039	1	282340674.079668
1050539214	Resistor	R484,R506		2.547039	2	154078778.388085
1050549904	Resistor	R32		2.547039	1	282340674.079668
1050549924	Resistor	R497,R500,R509		2.547039	3	107020754.986850
1050564924	Resistor	R411		2.547039	1	282340674.079668
1059710001	Resistor	R271,R272		2.547039	2	154078778.388085
1059722001	Resistor	R270		2.547039	1	282340674.079668
105A500139	Resistor	R111,R12,R122,R123, R124,R13,R134,R14, R17,R20,R21,R22, R24,R253,R26,R292, R3,R338,R339,R34, R347,R348,R349,R35, R354,R355,R36,R37, R38,R384,R4,R410, R412,R413,R415, R417,R434,R436, R437,R438,R439, R440,R441,R462, R464,R468,R470,		2.547039	52	7175195.948130
105A500233	Resistor	R1,R239		2.547039	2	154078778.388085
105A500239	Resistor	R379		2.547039	1	282340674.079668

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A501039	Resistor	R120,R125,R140, R152,R153,R154, R155,R164,R165, R166,R167,R168, R169,R170,R171, R172,R173,R175, R177,R179,R180, R181,R182,R183, R184,R185,R187, R188,R189,R192, R197,R198,R199, R206,R211,R212, R215,R216,R217,		2.547039	87	4337508.502880
105A501053	Resistor	R121,R186,R304		2.547039	3	107020754.986850
105A501139	Resistor	R432,R451		2.547039	2	154078778.388085
105A501533	Resistor	R133		2.547039	1	282340674.079668
105A501539	Resistor	R452		2.547039	1	282340674.079668
105A502039	Resistor	R373,R374,R375,R76, R85		2.547039	5	67008142.102588
105A503309	Resistor	R234,R235,R260, R261,R263,R264, R278,R369,R390, R391,R528,R549, R550,R551,R552,R77, R93,R94,R95		2.547039	19	19019185.781770
105A505103	Resistor	R41,R42		2.547039	2	154078778.388085
105A505133	Resistor	R358		2.547039	1	282340674.079668
105A505629	Resistor	R419		2.547039	1	282340674.079668
105A506803	Resistor	R505,R511		2.547039	2	154078778.388085
105A506829	Resistor	R156,R157		2.547039	2	154078778.388085

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105A507509	Resistor	R143,R144,R145, R146,R67,R69,R71		2.547039	7	48991237.965885
105A510009	Resistor	R371,R485,R490, R504,R510		2.547039	5	67008142.102588
105A510053	Resistor	R248		2.547039	1	282340674.079668
105A510223	Resistor	R469		2.547039	1	282340674.079668
105A511823	Resistor	R147		2.547039	1	282340674.079668
105A512713	Resistor	R2		2.547039	1	282340674.079668
105A514023	Resistor	R450		2.547039	1	282340674.079668
105A515009	Resistor	R10,R27,R28, R29, R62,R63,R64		2.547039	7	48991237.965885
105A515423	Resistor	R449		2.547039	1	282340674.079668
105A516523	Resistor	R459		2.547039	1	282340674.079668
105A521039	Resistor	R416		2.547039	1	282340674.079668
105A524913	Resistor	R127		2.547039	1	282340674.079668
105A530003	Resistor	R11,R18,R9		2.547039	3	107020754.986850
105A533223	Resistor	R454,R455		2.547039	2	154078778.388085
105A533269	Resistor	R486,R491		2.547039	2	154078778.388085
105A539263	Resistor	R5		2.547039	1	282340674.079668
105A551003	Resistor	R19,R237,R25		2.547039	3	107020754.986850
105A551119	Resistor	R269,R274		2.547039	2	154078778.388085
105A556213	Resistor	R357,R489,R508		2.547039	3	107020754.986850
105A559003	Resistor	R233		2.547039	1	282340674.079668
105A562034	Resistor	R463		2.547039	1	282340674.079668
105A593103	Resistor	R178		2.547039	1	282340674.079668
105A700003	Resistor	R101,R141,R256, R405,R407,R409, R446,R447,R453, R460,R461,R465, R466,R467,R482, R502,R515,R553,R72		2.547039	19	19019185.781770

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105A700009	Resistor	R100,R109,R112, R126,R128,R129, R142,R15,R158,R16, R160,R190,R201, R202,R203,R204, R205,R222,R238, R242,R249,R252, R265,R266,R267, R268,R275,R310, R311,R316,R317, R318,R319,R320, R323,R324,R360, R385,R39,R40,R4		2.547039	60	6239906.126519
105A700139	Resistor	R329,R421,R424, R428,R429,R430		2.547039	6	56573956.677649
105A701009	Resistor	R306		2.547039	1	282340674.079668
105A701039	Resistor	R110,R118,R119, R135,R136,R425, R444,R445		2.547039	8	43225424.698300
105A701059	Resistor	R108		2.547039	1	282340674.079668
105A702209	Resistor	R148,R232,R236, R240,R241,R243, R244,R245,R246, R247,R250,R58,R59, R60,R61,R80,R81		2.547039	17	21160422.299251

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105A702229	Resistor	R150,R151,R159, R161,R191,R193, R221,R363,R547, R548,R65,R66		2.547039	12	29507083.749401
105A702269	Resistor	R481,R494,R498, R514		2.547039	4	82309758.689546
105A703309	Resistor	R79,R82,R83		2.547039	3	107020754.986850
105A703363	Resistor	R448		2.547039	1	282340674.079668
105A704729	Resistor	R285,R286,R287, R288,R289,R291, R294,R295,R296, R297,R356,R366, R367,R378,R387, R388,R389,R400, R420,R427		2.547039	20	18104712.511396
105A705139	Resistor	R418,R422,R423, R426,R431		2.547039	5	67008142.102588
105A707509	Resistor	R87,R88,R89, R90, R91,R92		2.547039	6	56573956.677649
105A708229	Resistor	R114,R115,R330, R335,R55,R56		2.547039	6	56573956.677649
105A710009	Resistor	R312,R313,R314, R315,R368		2.547039	5	67008142.102588
105A710039	Resistor	R293,R30,R301, R340, R341,R343,R344, R345,R376,R380		2.547039	10	35079934.879747
105A720053	Resistor	R251		2.547039	1	282340674.079668

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105A733009	Resistor	R130,R131,R137, R334,R396,R397, R398,R399,R533, R534,R535,R536		2.547039	12	29507083.749401
105A739039	Resistor	R408		2.547039	1	282340674.079668
105A747009	Resistor	R279,R280,R282, R283,R350,R351, R352,R353		2.547039	8	43225424.698300
106B501032	Resistor	RT1,RT2		7.724580	2	38596617.434771
106B501034	Resistor	RT3,RT4		7.724580	2	38596617.434771
1121501690	Capacitor	C1,C10,C107,C108, C11,C111,C115,C117, C121,C122,C123, C124,C126,C127, C128,C129,C130, C132,C133,C134, C135,C136,C137, C138,C139,C150, C152,C154,C155, C156,C157,C158,C16, C162,C164,C166, C170,C171,C173, C176,C177,C178,		1.128806	157	5532285.237414
1121501691	Capacitor	C231,C232,C280, C281,C282,C283, C285,C286,C287, C290,C291,C292, C296,C302,C95		1.128806	15	55479656.844874

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1122522890	Capacitor	C381,C382,C395, C396,C403,C404, C405,C406		1.128806	8	101746760.035398
1122722080	Capacitor	C151,C153,C211, C212		1.128806	4	196873384.410843
1124410191	Capacitor	C105,C106,C411, C412,C415,C416		1.128806	6	133979725.056342
1124418080	Capacitor	C209,C210		1.128806	2	375289731.076049
1124427080	Capacitor	C113,C114		1.128806	2	375289731.076049
1124433090	Capacitor	C308,C365,C83,C84, C86,C87		1.128806	6	133979725.056342
1124547190	Capacitor	C371,C394		1.128806	2	375289731.076049
1129522790	Capacitor	C376,C384,C389,C88, C89		1.128806	5	159367490.199266
1129610051	Capacitor	C109,C116,C125, C163,C167,C169, C172,C18,C182,C190, C196,C234,C276, C355,C356,C357, C358,C359,C37,C379, C391,C52,C60		1.128806	23	36609385.175833
1129610260	Capacitor	C131		1.128806	1	704977644.692287
1129701791	Capacitor	C397,C398		1.128806	2	375289731.076049
1129710090	Capacitor	C100,C77,C78,C79, C80,C81,C82		1.128806	7	115633865.771428
1129710391	Capacitor	C140,C141,C261, C375,C390,C402		1.128806	6	133979725.056342
1174510180	Capacitor	CP1		1.128806	1	704977644.692287
1181610090	Capacitor	C15		1.128806	1	704977644.692287
1189610153	Capacitor	C14,C215,C218,C317		1.128806	4	196873384.410843
1189615154	Capacitor	C310,C311,C312, C314		1.128806	4	196873384.410843
1189622154	Capacitor	C30,C46,C62		1.128806	3	257514172.353070

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1189633151	Capacitor	C339,C344,C361, C370,C380,C392, C393		1.128806	7	115633865.771428
11A4447190	Capacitor	C90,C91,C92,C93		1.128806	4	196873384.410843
11A4922690	Capacitor	C288,C295,C297, C300,C301		1.128806	5	159367490.199266
11C1501080	Capacitor	C353,C354		1.128806	2	375289731.076049
11C2501790	Capacitor	C12,C142,C143,C144, C145,C146,C147, C148,C149,C347, C349		1.128806	11	74892583.279796
11C4533380	Capacitor	C364		1.128806	1	704977644.692287
11C4547190	Capacitor	C118,C119,C120		1.128806	3	257514172.353070
11C4547290	Capacitor	C348,C350		1.128806	2	375289731.076049
11C9510490	Capacitor	C304,C309,C325, C328,C333,C336, C338,C340,C342, C345,C362,C373, C374,C385,C388, C400		1.128806	16	52112480.802928
11C9522060	Capacitor	C323,C324,C326, C327,C330,C332		1.128806	6	133979725.056342
11E1510050	Capacitor	C110,C222,C225, C318		1.128806	4	196873384.410843
11E1522680	Capacitor	C63,C64,C68,C69		1.128806	4	196873384.410843
11E2501690	Capacitor	C293,C294,C298, C360		1.128806	4	196873384.410843
11E2510060	Capacitor	C321		1.128806	1	704977644.692287

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11E9501090	Capacitor	C159,C160,C161, C165,C168,C174, C175,C180,C181, C188,C189,C194, C195,C207,C208, C216,C26,C27,C273, C28,C29,C35,C36, C38,C41,C42,C43, C44,C45,C47,C50, C51,C57,C58,C59, C61,C73,C74		1.128806	38	22404668.588477
11E9501091	Capacitor	C319,C329,C331, C337,C366,C369, C377		1.128806	7	115633865.771428
11E9510051	Capacitor	C313,C363		1.128806	2	375289731.076049
11E9547682	Capacitor	C341		1.128806	1	704977644.692287
11E9610080	Capacitor	C112,C279,C284, C289,C305,C306, C316,C334,C335, C343,C346,C367, C368,C386,C387,C94, C96,C97,C98,C99		1.128806	20	41950408.034165
11E9622080	Capacitor	C407,C408,C409, C410,C413,C414		1.128806	6	133979725.056342
11E9722090	Capacitor	C383,C399		1.128806	2	375289731.076049
121110226K	Inductor	L7		4.944252	1	154760964.143460
121110226N	Inductor	L3		4.944252	1	154760964.143460
121110336X	Inductor	L10,L8,L9		4.944252	3	57363284.375370
1211133074	Inductor	L11,L12		4.944252	2	83201062.149749
1212306030	Inductor	FB33,FB34,FB39,FB6		4.944252	4	43912872.424775

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121231206B	Inductor	FB19,FB20,F B21, FB22,FB23,F B24, FB25,FB26,F B27, FB28		4.944252	10	18485101.557872
12123C0003	Inductor	FB10,FB11,F B12, FB13,FB14,F B15, FB16,FB17,F B18,FB8, FB9		4.944252	11	16872203.304846
12123C0010	Inductor	FB1,FB2,L4,L 5,L6		4.944252	5	35631881.582999
12123D0000	Inductor	FB7		4.944252	1	154760964.143460
12123D0001	Inductor	FB29,FB3,FB 30,FB31, FB32,FB35,F B36, FB37,FB38,F B4,FB40, FB41,FB5		4.944252	13	14371345.712170
1214309008	Inductor	CH1,CH2,CH 3,CH4		4.944252	4	43912872.424775
123132505D	Miscellaneous	Y2,Y3,Y5		19.200000	3	5742504.738137
1231332726	Miscellaneous	Y4		19.200000	1	23844262.770939
1300054040	Semiconductor	D16,D17		7.793411	2	50578095.223398
1301001443	Semiconductor	D1		7.793411	1	92807310.010983
1301005444	Semiconductor	D15,D7,D8,D 9		7.793411	4	26989084.126235
1301400541	Semiconductor	D10,D11,D12 ,D18, D19,D21		7.793411	6	18540453.699406
1301400642	Semiconductor	D2,D20,D4,D 6		7.793411	4	26989084.126235
1304000043	Optical Device	LED4		79.003355	1	6497172.749112
1304101440	Optical Device	LED2		79.003355	1	6497172.749112
1304200043	Optical Device	LED1		79.003355	1	6497172.749112
1304300140	Optical Device	LED3,LED5		79.003355	2	3783722.582110
1305080040	Semiconductor	U10,U4,U56, U6,U7, U9		7.793411	6	18540453.699406
1305099140	Semiconductor	D13,D14		7.793411	2	50578095.223398
1305100541	Semiconductor	U17,U18,U19 ,U20, U22,U23,U24 ,U25,U5		7.793411	9	12694047.317505

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1309020640	Semiconductor	U36,U37,U38 ,U39, U40,U41,U42 ,U43, U57,U58		7.793411	10	11489279.961809
1310390413	Semiconductor	Q18,Q23,Q2 4		22.463360	3	12043329.789539
1311390612	Semiconductor	Q19,Q20,Q2 6		22.463360	3	12043329.789539
1314010410	Semiconductor	U46,U47	29.7	47.646722	2	8163315.196196
1315230511	Semiconductor	Q27,Q29,Q4, Q47		22.463360	4	9270607.712006
1315441310	Semiconductor	Q35		22.463360	1	31642600.748419
1315443510	Semiconductor	Q30		22.463360	1	31642600.748419
1315444710	Semiconductor	Q32,Q34		22.463360	2	17315095.066101
1315700216	Semiconductor	Q1,Q10,Q11, Q12,Q13, Q14,Q15,Q1 6,Q17,Q2, Q21,Q22,Q2 5,Q28,Q3, Q33,Q36,Q3 7,Q38, Q39,Q46,Q5, Q6,Q7, Q8,Q9		22.463360	26	1589867.643171
1315831310	Semiconductor	Q31,Q40,Q4 1,Q42, Q44,Q45		22.463360	6	6378891.324740
14S1230400	Integrated Circuit	U12		43.803003	1	11739202.588727
14S3003700	Integrated Circuit	TF1		43.803003	1	11739202.588727
14S3020901	Integrated Circuit	U3	25.1	225.864594	1	2276639.820483
14S3089200	Integrated Circuit	U55	29.1	286.696221	1	1793579.025081
14S3112400	Integrated Circuit	U48		43.803003	1	11739202.588727
14S3524701	Integrated Circuit	U8		43.803003	1	11739202.588727
14S3820700	Integrated Circuit	U49		43.803003	1	11739202.588727
14S3822800	Integrated Circuit	U45		43.803003	1	11739202.588727
14S3838000	Integrated Circuit	U50		43.803003	1	11739202.588727
14S4021301	Integrated Circuit	U27,U31		43.803003	4	3879156.910661
14S4048503	Integrated Circuit	U33,U35		43.803003	2	6834791.244197
14S4021301	Integrated Circuit	U28	25.7	234.177374	4	725598.379156
14S4021301	Integrated Circuit	U29	25.8	235.589261	4	721249.864618
14S4081102	Integrated Circuit	U14		43.803003	1	11739202.588727
14S4186600	Integrated Circuit	U26	25.2	227.231362	1	2262946.118147
14S4811102	Integrated Circuit	U11	22.3	190.471907	1	2699675.434461
14S4888801	Integrated Circuit	U44	25.9	237.008795	1	2169591.762619
14S4A55E00	Integrated Circuit	U13	23.8	208.756858	1	2463211.673737
14S4T16R00	Integrated Circuit	U2	27.2	65.462258	1	7855096.144852
14S5812502	Integrated Circuit	U30		26.018600	1	25551442.237972

File Name: 9697HDS002-D.rfp
Assembly: System
Ref Des:
Description:

Failure Rate: 10630.346288
MTBF (hrs): 94,070
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
14S5A00401	Integrated Circuit	U32		26.018600	1	25551442.237972
14S5A00703	Integrated Circuit	U51		26.018600	1	25551442.237972
14S5A00704	Integrated Circuit	U52,U54		26.018600	2	14194252.866846
14S5A12506	Integrated Circuit	U34		26.018600	1	25551442.237972
1540710382	Resistor	RP12,RP13,R P14, RP15,RP16,R P17, RP18,RP19,R P20, RP21,RP22,R P23, RP24,RP25,R P26		9.971436	15	5393805.371647
1540782282	Resistor	RP1,RP10,RP 11,RP2, RP3,RP4,RP5 ,RP6, RP7,RP8,RP9		9.971436	11	7119246.675168
16515A2992	Connection	DIMM1		16.184835	1	35685591.360212
1752000501	Miscellaneous	FS2		2.400000	1	254626042.602335
1752001603	Miscellaneous	FS3		2.400000	1	254626042.602335
1752002700	Miscellaneous	FS1		2.400000	1	254626042.602335
1653924111	Connection	CN18		16.184835	1	35685591.360212
165320520C	Connection	CN7		16.184835	1	35685591.360212
165300420L	Connection	CN8		16.184835	1	35685591.360212
1654900710	Connection	CN20		16.184835	1	35685591.360212
1654020004	Connection	CN5		16.184835	1	35685591.360212
1050503934	Resistor	R273		1.994287	1	258034538.356071
11E9647690	Capacitor	C303		4.744484	1	159663026.715137
1050597604	Resistor	R176		1.994287	1	258034538.356071
14S6203204	Integrated Circuit	U15		43.803003	1	11739202.588727
1315190100	Integrated Circuit	U16,U21		43.803003	2	6834791.244197
105A715009	Resistor	R228,R229,R 230, R231,R309		1.994287	5	70631487.130468
1121501680	Capacitor	C307		1.128806	1	704977644.692287
1653002101	Connection	CN21		16.184835	1	35685591.360212
165300310G	Connection	CN16,CN31,C N4,CN6, CN9		16.184835	5	9343344.843761
1653003201	Connection	CN26		16.184835	1	35685591.360212
165312022B	Connection	CN30		16.184835	1	35685591.360212
165313042B	Connection	CN15		16.184835	1	35685591.360212
165313222A	Connection	CN29		16.184835	1	35685591.360212
1653300107	Connection	CN16(2-3), CN26(4- 3),CN4(1-2), CN6(2-3)		16.184835	4	11344857.509064

File Name: 9697HDS002-D.rfp
Assembly: System
Ref Des:
Description:

Failure Rate: 10630.346288
MTBF (hrs): 94,070
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1653300108	Connection	CN9(1-2)		16.184835	1	35685591.360212
1655006120	Connection	CN33		16.184835	1	35685591.360212
1655302025	Connection	CN19		16.184835	1	35685591.360212
1655902034	Connection	CN10,CN37,C N38		16.184835	3	14515880.849373
1655905035	Connection	CN3		16.184835	1	35685591.360212
1655905038	Connection	CN11,CN12,C N13, CN14		16.184835	4	11344857.509064
1655906032	Connection	CN35		16.184835	1	35685591.360212
1655909034	Connection	CN22,CN23,C N24, CN25		16.184835	4	11344857.509064
1655910032	Connection	CN2,CN27,C N34		16.184835	3	14515880.849373
1655913030	Connection	CN1		16.184835	1	35685591.360212
175011901C	Miscellaneous	U1		306.000000	1	1681683.006787
175910000B	Speaker	BZ1		351.247000	1	2846999.404977
1653300102	Connection	CN21(1-2)		16.184835	1	35685591.360212
1655004018	Connection	CN28		16.184835	1	35685591.360212