

COM-HM76

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 6144.212798 ppm MTBF: 162,755 Hours
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Issue date	Approval	Test Engineer
2014/05/16	Tom Lin	Louie Lee

Reliability Prediction (MTBF)

I . Model Name: COM-HM76

II . Prediction Date: May. 16th, 2014

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

IV . Predicted by: Louie Lee

V . Equipment: Windchill Quality Solutions 10.1

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 Failure rate multiplier is 1000000000.
- MTBF : MTBF is always specified in hours.

VIII. Prediction Result:

COM-HM76 (9697HM7601-D):

- Failure Rate: 6144.212798 ppm

- MTBF: 162,755 Hours

**AAEON Reliability Prediction
Summary**

File Name: COM-HM76.rfp
Duty Cycle: 100
Calculation Model: Telcordia Issue 2
Method: Method I Case 3

Failure Rate: 6144.212798
MTBF (hrs): 162,755
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
COM-HM76	9697HM7601-D		1	6144.212798	162,755

File Name: COM-HM76.rfp
Assembly: 9697HM7601-D
Ref Des:
Description:

Failure Rate: 6144.212798
MTBF (hrs): 162,755
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050501834	Resistor	R971		2.547039	1	282340674.079668
1050502224	Resistor	R132,R138,R140, R141,R143,R144, R145,R146,R147, R149,R150,R151, R219,R231,R232, R233,R234,R236, R238,R239,R240, R312,R381,R445, R469,R556,R597, R610,R740,R741		2.547039	30	12244464.256771
1050502424	Resistor	R682		2.547039	1	282340674.079668
1050503934	Resistor	R681		2.547039	1	282340674.079668
1050504724	Resistor	R121,R217,R224, R347,R348,R358, R516,R517,R746		2.547039	9	38754445.632391
1050504734	Resistor	R196,R286,R301		2.547039	3	107020754.986850
1050505633	Resistor	R673		2.547039	1	282340674.079668
1050508224	Resistor	R739		2.547039	1	282340674.079668

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1050510034	Resistor	R220,R222,R244, R245,R264,R317, R320,R509,R510, R527,R528,R544, R545,R549,R551, R552,R564,R579, R583,R586,R588, R589,R592,R595, R607,R625,R630, R633,R635,R704, R742,R743		2.547039	32	11502702.879433
1050513334	Resistor	R702		2.547039	1	282340674.079668
1050520004	Resistor	R10,R119,R648		2.547039	3	107020754.986850
1050520034	Resistor	R304		2.547039	1	282340674.079668
1050524004	Resistor	R626		2.547039	1	282340674.079668
1050524904	Resistor	R1,R19		2.547039	2	154078778.388085
1050530034	Resistor	R725,R734		2.547039	2	154078778.388085
1050533034	Resistor	R200,R98		2.547039	2	154078778.388085
1050539214	Resistor	R700		2.547039	1	282340674.079668
1050539224	Resistor	R672		2.547039	1	282340674.079668
1050539234	Resistor	R676,R696,R713		2.547039	3	107020754.986850
1050595314	Resistor	R609		2.547039	1	282340674.079668
1050700334	Resistor	R457,R487,R488		2.547039	3	107020754.986850
1050704304	Resistor	R26,R40		2.547039	2	154078778.388085
1054700289	Resistor	R973		2.547039	1	282340674.079668
1059700001	Resistor	R974,R975		2.547039	2	154078778.388085
1059710001	Resistor	R558,R559,R560, R561,R562,R563		2.547039	6	56573956.677649
105A500103	Resistor	R674,R693,R711, R724,R732		2.547039	5	67008142.102588

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105A500139	Resistor	R114,R134,R193, R249,R275,R276,R29, R313,R32,R356,R376, R426,R472,R507, R508,R531,R57,R58, R637,R639,R646, R651,R655,R659,R74, R77,R79,R80,R94		2.547039	29	12652760.276502
105A501003	Resistor	R688		2.547039	1	282340674.079668
105A501039	Resistor	R102,R105,R110, R118,R131,R133, R142,R157,R158, R159,R162,R163, R164,R165,R166, R167,R169,R17,R170, R171,R172,R173, R174,R175,R176, R177,R178,R179, R180,R183,R184, R186,R187,R188, R189,R190,R195, R197,R218,R252, R253,R260,R274, R281,R282,R288, R289,R291,R		2.547039	109	3476442.064216
105A501529	Resistor	R377		2.547039	1	282340674.079668
105A501633	Resistor	R468		2.547039	1	282340674.079668
105A502039	Resistor	R706,R93,R96,R970		2.547039	4	82309758.689546

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105A503039	Resistor	R534,R671,R705		2.547039	3	107020754.986850
105A503309	Resistor	R104,R107,R109, R111,R112,R117, R125,R126,R269, R272,R277,R499, R500,R502		2.547039	14	25477245.255648
105A505109	Resistor	R13,R14,R16		2.547039	3	107020754.986850
105A506833	Resistor	R628		2.547039	1	282340674.079668
105A507533	Resistor	R530,R543,R574, R627		2.547039	4	82309758.689546
105A510009	Resistor	R43,R446,R46,R47, R482,R484,R50,R514, R601		2.547039	9	38754445.632391
105A513009	Resistor	R24,R38,R717		2.547039	3	107020754.986850
105A513323	Resistor	R582		2.547039	1	282340674.079668
105A514009	Resistor	R9		2.547039	1	282340674.079668
105A514733	Resistor	R642		2.547039	1	282340674.079668
105A515009	Resistor	R241,R242,R243		2.547039	3	107020754.986850
105A516523	Resistor	R675,R694,R712, R723,R733		2.547039	5	67008142.102588
105A518723	Resistor	R677,R707		2.547039	2	154078778.388085
105A522663	Resistor	R266		2.547039	1	282340674.079668
105A523713	Resistor	R228		2.547039	1	282340674.079668
105A525563	Resistor	R8		2.547039	1	282340674.079668
105A526723	Resistor	R555		2.547039	1	282340674.079668
105A528723	Resistor	R678,R697,R715, R726,R735		2.547039	5	67008142.102588
105A530113	Resistor	R357		2.547039	1	282340674.079668
105A537463	Resistor	R120		2.547039	1	282340674.079668
105A539003	Resistor	R293		2.547039	1	282340674.079668
105A547033	Resistor	R541		2.547039	1	282340674.079668
105A549919	Resistor	R31		2.547039	1	282340674.079668
105A549969	Resistor	R122,R198		2.547039	2	154078778.388085
105A551123	Resistor	R670		2.547039	1	282340674.079668
105A553629	Resistor	R624		2.547039	1	282340674.079668
105A554969	Resistor	R720		2.547039	1	282340674.079668
105A561933	Resistor	R540		2.547039	1	282340674.079668
105A575009	Resistor	R124,R199		2.547039	2	154078778.388085

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105A590963	Resistor	R181		2.547039	1	282340674.079668
105A700003	Resistor	R361,R515,R520, R548,R604,R620, R629,R684,R685, R687,R689,R691, R692,R710,R714, R716,R722,R727, R731,R736		2.547039	20	18104712.511396
105A700009	Resistor	R11,R12,R15,R2,R28, R3,R30,R333,R335, R337,R338,R339, R350,R353,R354, R363,R37,R4,R41, R42,R44,R45,R48, R49,R5,R511,R52, R526,R529,R532, R538,R54,R546,R553, R566,R576,R577, R578,R584,R590, R591,R593,R594, R596,R599,R6,R605, R606,R61,R615,R617, R618,R619,R		2.547039	70	5366964.985587
105A700103	Resistor	R542		2.547039	1	282340674.079668
105A700139	Resistor	R18,R683,R690		2.547039	3	107020754.986850
105A701009	Resistor	R334,R336,R51,R53, R571		2.547039	5	67008142.102588
105A701039	Resistor	R20,R695		2.547039	2	154078778.388085

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105A701053	Resistor	R182,R230,R567, R745,R97		2.547039	5	67008142.102588
105A701059	Resistor	R130,R246,R247, R454,R473,R513		2.547039	6	56573956.677649
105A701069	Resistor	R95		2.547039	1	282340674.079668
105A702229	Resistor	R387,R389,R390, R433,R434,R616		2.547039	6	56573956.677649
105A702263	Resistor	R33		2.547039	1	282340674.079668
105A704729	Resistor	R455,R458,R460		2.547039	3	107020754.986850
105A704739	Resistor	R386,R388,R393, R398,R399,R401, R402,R407,R408, R409,R420,R422		2.547039	12	29507083.749401
105A705609	Resistor	R7		2.547039	1	282340674.079668
105A707509	Resistor	R25,R39		2.547039	2	154078778.388085
105A708229	Resistor	R191,R250,R251, R254,R255,R256, R257,R258,R259		2.547039	9	38754445.632391
105A720009	Resistor	R22,R23		2.547039	2	154078778.388085
105A733009	Resistor	R410,R411		2.547039	2	154078778.388085
105B501039	Resistor	R412,R413,R414		2.547039	3	107020754.986850

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105B700009	Resistor	R101,R106,R115, R116,R123,R127, R128,R135,R136, R137,R139,R148, R152,R155,R156, R160,R161,R194, R203,R204,R207, R208,R209,R211, R212,R214,R262, R263,R267,R268, R270,R271,R273, R287,R303,R310, R314,R341,R342, R343,R344,R359, R362,R366,R367, R369,R372,R373,		2.547039	82	4596628.018709
106B501032	Resistor	RT1,RT2		7.724580	2	38596617.434771
106B510034	Resistor	RT3,RT4,RT5,RT6, RT7,RT8,RT9		7.724580	7	13620277.701355
1121501690	Capacitor	C369,C382,C386, C409,C410,C418, C424,C431,C439, C450		1.128806	10	82101057.548118
1121501691	Capacitor	C1,C2,C470,C484, C492,C494,C503, C505,C513,C515		1.128806	10	82101057.548118
1124410191	Capacitor	C468,C488		1.128806	2	375289731.076049
1124418090	Capacitor	C140,C142,C164, C165		1.128806	4	196873384.410843
1124433090	Capacitor	C270,C273		1.128806	2	375289731.076049

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1124522280	Capacitor	C466,C469,C471, C479,C483,C485, C490,C493,C496, C501,C504,C507, C511,C514,C517		1.128806	15	55479656.844874
1124522680	Capacitor	C392,C419,C422		1.128806	3	257514172.353070
1124522880	Capacitor	C227		1.128806	1	704977644.692287
1124568280	Capacitor	C539		1.128806	1	704977644.692287
1129522790	Capacitor	C278,C279,C280, C282,C284,C286, C288,C289,C290, C291,C292,C293, C294,C295,C296, C298,C300,C302, C303,C306,C307, C309,C312,C313, C315,C318,C320, C321,C322,C323, C324,C325		1.128806	32	26512863.286539

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1129610080	Capacitor	C100,C101,C102, C103,C104,C105, C108,C110,C16,C17, C18,C211,C215,C218, C260,C271,C276,C31, C341,C416,C437, C445,C446,C447, C449,C56,C65,C66, C68,C69,C70,C71, C72,C73,C75,C76, C77,C85,C86,C87, C89		1.128806	41	20795506.904934
1129701790	Capacitor	C214,C221,C229, C283,C285,C304, C305,C314,C316, C317,C319,C335, C370,C376,C378, C380,C420,C423, C440		1.128806	19	44097696.883526
1129710090	Capacitor	C338		1.128806	1	704977644.692287
1129710390	Capacitor	C348,C371,C397		1.128806	3	257514172.353070
1181610090	Capacitor	TC10,TC15,TC9		4.744484	3	59399119.141203
1189610153	Capacitor	C660		4.744484	1	159663026.715137
1189610192	Capacitor	C360,C365		4.744484	2	86049450.747498
1189615154	Capacitor	C367,C373,C374, C383,C425		4.744484	5	36944177.000623
1189622150	Capacitor	C249,C253		4.744484	2	86049450.747498
1189622154	Capacitor	C398,C404,C414		4.744484	3	59399119.141203
1189633150	Capacitor	EC1,EC2		4.744484	2	86049450.747498
1189633151	Capacitor	C394,C540,TC1,TC2, TC8		4.744484	5	36944177.000623
1189647180	Capacitor	TC4	28.2	7.736682	1	97912607.739389

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1189647180	Capacitor	TC5		4.744484	1	159663026.715137
1189647187	Capacitor	C438,TC11,T C12, TC13,TC14,T C17		4.744484	6	31179134.677521
1189647187	Capacitor	TC16	29.9	7.947070	1	95320492.735474
11C1522430	Capacitor	C442		1.128806	1	704977644.692287
11C1533890	Capacitor	C472,C486,C 498, C508,C518		1.128806	5	159367490.199266
11C1547890	Capacitor	C3		1.128806	1	704977644.692287
11C2501050	Capacitor	C393,C432		1.128806	2	375289731.076049
11C2510190	Capacitor	C364,C366		1.128806	2	375289731.076049
11C2510480	Capacitor	C362,C363,C 389, C403		1.128806	4	196873384.410843
11C2610030	Capacitor	C368,C379,C 421		1.128806	3	257514172.353070
11C4522290	Capacitor	C384,C426		1.128806	2	375289731.076049
11C9510490	Capacitor	C415		1.128806	1	704977644.692287
11E1522680	Capacitor	C476,C497,C 506, C516		1.128806	4	196873384.410843
11E1533780	Capacitor	C474		1.128806	1	704977644.692287
11E2501690	Capacitor	C467,C480,C 491, C502,C512		1.128806	5	159367490.199266
11E2522090	Capacitor	C390,C391		1.128806	2	375289731.076049
11E2647650	Capacitor	C375		1.128806	1	704977644.692287
11E3510010	Capacitor	C465,C478,C 489, C500,C510		1.128806	5	159367490.199266
11E4433090	Capacitor	C495,C61		1.128806	2	375289731.076049

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11E9501091	Capacitor	C106,C107,C141, C143,C144,C168, C210,C216,C217, C219,C22,C220,C226, C23,C234,C236,C237, C238,C239,C24,C241, C242,C243,C244, C250,C251,C252, C254,C255,C256, C257,C263,C269, C359,C36,C388,C407, C41,C42,C428,C43, C44,C443,C475,C477, C482,C661,C74,C78, C79,C8		1.128806	59	14541999.022292

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11E9510490	Capacitor	C109,C111,C112, C113,C114,C115, C145,C146,C147, C148,C149,C150, C151,C152,C153, C154,C155,C156, C157,C158,C159, C160,C161,C163, C170,C172,C174, C176,C178,C179, C180,C181,C182, C183,C184,C185, C198,C199,C200, C202,C203,C204, C205,C206,C207, C209,C222,C223,		1.128806	120	7217773.981825
11E9522680	Capacitor	C457,C92		1.128806	2	375289731.076049
11E9522790	Capacitor	C381		1.128806	1	704977644.692287
11E9547681	Capacitor	C481		1.128806	1	704977644.692287
11E9610080	Capacitor	C395		1.128806	1	704977644.692287
11E9622050	Capacitor	C224,C230,C233, C240,C400,C401,C49, C50,C52,C53,C54, C55,C57,C58,C59, C60,C64,C67		1.128806	18	46478509.590073
11E9622052	Capacitor	C406,C411,C412, C429,C430		1.128806	5	159367490.199266

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11E9622080	Capacitor	C10,C11,C12 ,C13, C14,C15,C19 ,C25, C26,C27,C28 ,C29, C30,C32,C33 ,C34,C4, C5,C6,C7,C8, C9		1.128806	22	38230892.707156
11EA510390	Capacitor	C281,C287,C 297, C299,C301,C 308, C310,C311,C 329		1.128806	9	90863428.080946
1211000180	Inductor	L12		4.944252	1	154760964.143460
1211100113	Inductor	L2,L4,L5		4.944252	3	57363284.375370
1211100160	Inductor	L1		4.944252	1	154760964.143460
1211101064	Inductor	L14		4.944252	1	154760964.143460
1211103671	Inductor	L15,L16,L17, L19		4.944252	4	43912872.424775
1211103671	Inductor	L18	34.4	8.879659	1	86171908.719444
121110476V	Inductor	L8		4.944252	1	154760964.143460
1211105675	Inductor	L11		4.944252	1	154760964.143460
121113307C	Inductor	L9	22.5	7.353744	1	104052737.651677
1211147076	Inductor	L10,L13		4.944252	2	83201062.149749
12123C0007	Inductor	FB1		4.944252	1	154760964.143460
123132505D	Miscellaneous	Y2,Y3		19.200000	2	8854051.752197
1231332722	Miscellaneous	Y1		19.200000	1	23844262.770939
1301005444	Semiconductor	D1,D10,D19, D2,D3, D30,D32,D5, D6,D9		7.793411	10	11489279.961809
1301005447	Semiconductor	D13,D27		7.793411	2	50578095.223398
1301005450	Semiconductor	D11,D12,D14 ,D15, D16,D17,D18 ,D20, D21,D22,D23 ,D24, D25,D26,D28 ,D31,D4		7.793411	17	6927243.833724
1301053040	Semiconductor	D29		7.793411	1	92807310.010983
1304001340	Optical Device	LED1,LED3		79.003355	2	3783722.582110
1304300140	Optical Device	LED2		79.003355	1	6497172.749112
1309009940	Semiconductor	D7,D8		7.793411	2	50578095.223398
1310390413	Semiconductor	Q10,Q59,Q9		22.463360	3	12043329.789539
1311390612	Semiconductor	Q6		22.463360	1	31642600.748419
1315013810	Semiconductor	Q5		22.463360	1	31642600.748419

File Name: COM-HM76.rfp
Assembly: 9697HM7601-D
Ref Des:
Description:

Failure Rate: 6144.212798
MTBF (hrs): 162,755
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1315035110	Semiconductor	Q52		22.463360	1	31642600.748419
1315036640	Semiconductor	Q38,Q47,Q64,Q65,Q66,Q67		22.463360	6	6378891.324740
1315036640	Semiconductor	Q68	30.7	48.754725	1	14579081.883847
1315482110	Semiconductor	Q39		22.463360	1	31642600.748419
1315495710	Semiconductor	Q24		22.463360	1	31642600.748419
1315667910	Semiconductor	Q21		22.463360	1	31642600.748419
1315700216	Semiconductor	Q11,Q12,Q13,Q14,Q15,Q16,Q17,Q19,Q2,Q20,Q25,Q26,Q27,Q28,Q29,Q3,Q30,Q31,Q34,Q40,Q44,Q46,Q49,Q50,Q53,Q54,Q60,Q61,Q62,Q69,Q7,Q70		22.463360	32	1300932.597594
1315806210	Semiconductor	Q23,Q42,Q51		22.463360	3	12043329.789539
1315806510	Semiconductor	Q22		22.463360	1	31642600.748419
1315806511	Semiconductor	Q18		22.463360	1	31642600.748419
1430012830	Integrated Circuit	U50		43.803003	1	11739202.588727
1430532190	Integrated Circuit	U28		43.803003	1	11739202.588727
14351601A0	Integrated Circuit	U45,U46,U47		43.803003	3	4923240.069161
146324C020	Integrated Circuit	U22		11.063278	1	58231413.220643
14696435E0	Integrated Circuit	U18		11.063278	1	58231413.220643
14S2951600	Integrated Circuit	U8		43.803003	1	11739202.588727
14S2965000	Integrated Circuit	U44		43.803003	1	11739202.588727
14S3121600	Integrated Circuit	U33		43.803003	1	11739202.588727
14S3121700	Integrated Circuit	U30		43.803003	1	11739202.588727
14S3146100	Integrated Circuit	U31	27.2	256.175324	1	2007267.214144
14S3621601	Integrated Circuit	U25		43.803003	1	11739202.588727
14S4081102	Integrated Circuit	U41		43.803003	1	11739202.588727
14S4257900	Integrated Circuit	U15		43.803003	1	11739202.588727
14S4851800	Integrated Circuit	U24		43.803003	1	11739202.588727
14S4HM7600	Integrated Circuit	U6	15.8	126.763069	1	4056483.758429
14S5A00702	Integrated Circuit	U19,U7		26.018600	2	14194252.866846
14S5A00704	Integrated Circuit	U3,U4		26.018600	2	14194252.866846
14S5A00821	Integrated Circuit	U14,U34,U35,U36,U37,U38,U39,U40		26.018600	8	4090524.362829
14S5A01402	Integrated Circuit	U9		26.018600	1	25551442.237972

**Reliability Prediction
Summary**

File Name: COM-HM76.rfp
Assembly: 9697HM7601-D
Ref Des:
Description:

Failure Rate: 6144.212798
MTBF (hrs): 162,755
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
14S5A12506	Integrated Circuit	U16,U20,U21		26.018600	3	9949526.289768
14S6216060	Integrated Circuit	U27		11.063278	1	58231413.220643
14S9230500	Integrated Circuit	U29,U32		43.803003	2	6834791.244197
14S9330600	Integrated Circuit	U10,U12,U48,U49		26.018600	4	7696979.559193
1540782282	Resistor	RP1,RP2		9.971436	2	30043399.401299
1600000403	Connection	SW1		16.184835	1	35685591.360212
1651520401	Connection	DIMM1		16.184835	1	35685591.360212
1651609883	Connection	U1		16.184835	1	35685591.360212
1653212100	Connection	CN8		16.184835	1	35685591.360212
16540M0000	Connection	CN4,CN5		16.184835	2	20390152.380746
1655902122	Connection	CN3		16.184835	1	35685591.360212
1655902130	Connection	CN6		16.184835	1	35685591.360212
1655907130	Connection	CN7		16.184835	1	35685591.360212