

FSB-H81H

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 8352.047103 ppm MTBF: 119,731 Hours
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Issue date	Approval	Test Engineer
2014/08/13	Tom Lin	Louie Lee

Reliability Prediction (MTBF)

I . Model Name: FSB-H81H

II . Prediction Date: August. 13th, 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:

FSB-H81H (9697FH8108-D):

- Failure Rate: 8352.047103 ppm

- MTBF: 119,731 Hours

**AAEON Reliability Prediction
Summary**

File Name: FSB-H81H.rfp
Duty Cycle: 100
Calculation Model: Telcordia Issue 2
Method: Method I Case 3

Failure Rate: 8352.047103
MTBF (hrs): 119,731
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
FSB-H81H	9697FH8108-D		1	8352.047103	119,731

File Name: FSB-H81H.rfp
Assembly: 9697FH8108-D
Ref Des:
Description:

Failure Rate: 8352.047103
MTBF (hrs): 119,731
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050500104	Resistor	R219,R324,R430		2.547039	3	107020754.986850
1050501004	Resistor	R310,R326,R401		2.547039	3	107020754.986850
1050501234	Resistor	R632		2.547039	1	282340674.079668
1050502204	Resistor	R590,R591,R592, R593,R680,R684, R687,R691,R741, R749		2.547039	10	35079934.879747
1050502224	Resistor	R194,R293,R397		2.547039	3	107020754.986850
1050503934	Resistor	R242		2.547039	1	282340674.079668
1050504724	Resistor	R132		2.547039	1	282340674.079668
1050504734	Resistor	R74		2.547039	1	282340674.079668
1050505124	Resistor	R547		2.547039	1	282340674.079668
1050505164	Resistor	R375		2.547039	1	282340674.079668
1050505604	Resistor	R444		2.547039	1	282340674.079668
1050507524	Resistor	R218,R220,R254, R733,R737		2.547039	5	67008142.102588
1050508224	Resistor	R734		2.547039	1	282340674.079668
1050510034	Resistor	R228,R236,R263,R76, R77		2.547039	5	67008142.102588
1050511009	Resistor	R570		2.547039	1	282340674.079668
1050515034	Resistor	R237		2.547039	1	282340674.079668
1050524004	Resistor	R100		2.547039	1	282340674.079668
1050524904	Resistor	R24,R42,R428, R467, R5		2.547039	5	67008142.102588
1050524909	Resistor	R682		2.547039	1	282340674.079668
1050525514	Resistor	R516		2.547039	1	282340674.079668
1050544264	Resistor	R567		2.547039	1	282340674.079668
1050549904	Resistor	R301,R311		2.547039	2	154078778.388085
1050563420	Resistor	R512		2.547039	1	282340674.079668
1050564904	Resistor	R441		2.547039	1	282340674.079668
1050590914	Resistor	R234		2.547039	1	282340674.079668
1050700334	Resistor	R717		2.547039	1	282340674.079668
1050701504	Resistor	R139,R185,R192, R200,R208,R45, R46, R47,R48		2.547039	9	38754445.632391
1050702734	Resistor	R551,R563		2.547039	2	154078778.388085
1050704304	Resistor	R424		2.547039	1	282340674.079668
1050739034	Resistor	R295,R581		2.547039	2	154078778.388085

File Name: FSB-H81H.rfp
Assembly: 9697FH8108-D
Ref Des:
Description:

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050756004	Resistor	R140,R141,R142		2.547039	3	107020754.986850
1054700289	Resistor	R487,R80		2.547039	2	154078778.388085
1059700001	Resistor	R66		2.547039	1	282340674.079668
105A500139	Resistor	R1,R118,R119,R2,R22,R26,R34,R49,R53,R7		2.547039	10	35079934.879747
105A500239	Resistor	R116		2.547039	1	282340674.079668
105A501003	Resistor	R372		2.547039	1	282340674.079668
105A501039	Resistor	R104,R232,R233,R288,R360,R415,R462		2.547039	7	48991237.965885
105A501529	Resistor	R394		2.547039	1	282340674.079668
105A501829	Resistor	R271		2.547039	1	282340674.079668
105A502039	Resistor	R113,R138,R246,R475,R476,R514,R588		2.547039	7	48991237.965885
105A503309	Resistor	R605,R617		2.547039	2	154078778.388085
105A505109	Resistor	R452,R471,R582,R604		2.547039	4	82309758.689546
105A506834	Resistor	R151		2.547039	1	282340674.079668
105A507509	Resistor	R320,R363,R402,R450,R583		2.547039	5	67008142.102588
105A510009	Resistor	R433,R445		2.547039	2	154078778.388085
105A511313	Resistor	R207		2.547039	1	282340674.079668
105A513009	Resistor	R448		2.547039	1	282340674.079668
105A515009	Resistor	R270,R303,R356,R382,R406,R418,R427,R668		2.547039	8	43225424.698300
105A515419	Resistor	R225		2.547039	1	282340674.079668
105A522623	Resistor	R300		2.547039	1	282340674.079668
105A522669	Resistor	R627		2.547039	1	282340674.079668
105A524919	Resistor	R206,R670		2.547039	2	154078778.388085
105A529413	Resistor	R195,R294,R395		2.547039	3	107020754.986850
105A531623	Resistor	R183,R278,R380		2.547039	3	107020754.986850
105A532429	Resistor	R626		2.547039	1	282340674.079668
105A536529	Resistor	R641		2.547039	1	282340674.079668
105A549969	Resistor	R410,R419,R542,R564		2.547039	4	82309758.689546
105A553629	Resistor	R159		2.547039	1	282340674.079668

File Name: FSB-H81H.rfp
Assembly: 9697FH8108-D
Ref Des:
Description:

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A700003	Resistor	R114,R136,R184, R191,R247,R408, R466,R643,R699, R700		2.547039	10	35079934.879747
105A700009	Resistor	R109,R11,R122,R126, R128,R148,R149,R15, R16,R162,R164,R169, R171,R179,R20,R202, R21,R211,R221,R223, R229,R249,R255, R265,R266,R274, R275,R283,R284, R296,R3,R302,R307, R309,R312,R313, R315,R317,R325, R328,R33,R340,R344, R352,R361,R370, R381,R383,R386, R388		2.547039	112	3384913.455750

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A700139	Resistor	R155,R163,R170, R172,R19,R193,R201, R204,R205,R216, R231,R238,R272, R355,R38,R391,R43, R447,R455,R461, R477,R517,R571, R595,R603,R625, R635,R639,R640, R677,R678,R709, R720		2.547039	33	11164784.962504
105A700203	Resistor	R18,R30		2.547039	2	154078778.388085
105A701009	Resistor	R414		2.547039	1	282340674.079668

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105A701039	Resistor	R103,R107,R117, R120,R125,R147, R154,R157,R158, R160,R166,R167, R175,R177,R180, R182,R187,R196, R210,R212,R213, R215,R217,R222, R226,R227,R240, R245,R248,R250, R253,R257,R258, R260,R261,R264, R269,R277,R291, R304,R319,R327, R330,R339,R348, R350,R353,R358,		2.547039	96	3938213.737375
105A701059	Resistor	R289,R316,R341		2.547039	3	107020754.986850
105A701069	Resistor	R364		2.547039	1	282340674.079668
105A701539	Resistor	R145,R636		2.547039	2	154078778.388085
105A702039	Resistor	R623,R624		2.547039	2	154078778.388085
105A702209	Resistor	R25		2.547039	1	282340674.079668
105A702229	Resistor	R110,R342,R343, R349,R365,R492, R510,R511,R519, R520,R523,R525, R531,R671		2.547039	14	25477245.255648
105A702239	Resistor	R440,R457		2.547039	2	154078778.388085
105A702269	Resistor	R256,R357,R481		2.547039	3	107020754.986850
105A702729	Resistor	R675,R676		2.547039	2	154078778.388085

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105A703309	Resistor	R268,R451,R465		2.547039	3	107020754.986850
105A703329	Resistor	R279		2.547039	1	282340674.079668
105A704729	Resistor	R173,R214,R27,R321,R323,R338,R369,R389,R390,R422,R446,R545,R550,R56,R561		2.547039	15	23852782.943395
105A705139	Resistor	R336,R337		2.547039	2	154078778.388085
105A708229	Resistor	R500,R501,R502,R503,R504,R505,R573,R574,R575,R576,R577,R578,R579,R580,R631,R661,R665,R673,R681,R686,R689,R693,R694,R695,R697,R702,R704,R712,R713,R714,R715,R716,R722,R723,R744,R745		2.547039	36	10261285.143207
105A710009	Resistor	R143,R529,R535,R536,R537,R548		2.547039	6	56573956.677649
105A710039	Resistor	R102,R105,R134,R426,R497,R55,R58,R59,R611,R62,R63,R67,R68,R75,R83,R84,R88,R89,R90,R99		2.547039	20	18104712.511396

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105A715009	Resistor	R230,R241,R696, R701		2.547039	4	82309758.689546
105A720009	Resistor	R135		2.547039	1	282340674.079668
105A733009	Resistor	R133,R23,R28,R6, R637		2.547039	5	67008142.102588
105A736039	Resistor	R298		2.547039	1	282340674.079668
105A747009	Resistor	R290		2.547039	1	282340674.079668
106B500144	Resistor	RT1,RT4,RT5		7.724580	3	27814800.254496
106B501032	Resistor	RT2,RT6		7.724580	2	38596617.434771
106B510034	Resistor	RT3		7.724580	1	66247589.526685
1112647110	Capacitor	C378		4.744484	1	159663026.715137
1121501680	Capacitor	C246,C379,C456		1.128806	3	257514172.353070
1121501690	Capacitor	C105,C106,C107,C108,C110,C127,C128,C131,C136,C137,C138,C139,C141,C144,C145,C154,C156,C157,C158,C159,C169,C172,C174,C179,C18,C184,C186,C187,C189,C190,C191,C193,C195,C199,C2,C200,C201,C202,C203,C204,C205,C206,C208,C210,C215,C218,C222,C229,C24		1.128806	209	4166691.112153
1122522890	Capacitor	C19,C48,C97		1.128806	3	257514172.353070
1124410190	Capacitor	C302		1.128806	1	704977644.692287
1124418090	Capacitor	C271,C297		1.128806	2	375289731.076049
1124427090	Capacitor	C224,C243,C244,C290,C517,C518		1.128806	6	133979725.056342

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1124427091	Capacitor	C369		1.128806	1	704977644.692287
1124433190	Capacitor	C292		1.128806	1	704977644.692287
1124522680	Capacitor	C346,C349		1.128806	2	375289731.076049
1124522881	Capacitor	C405		1.128806	1	704977644.692287
1124547290	Capacitor	C211		1.128806	1	704977644.692287
1129610080	Capacitor	C335,C651		1.128806	2	375289731.076049
1129710090	Capacitor	C228,C239,C248, C265,C266,C267, C282,C314,C330, C486		1.128806	10	82101057.548118
1129722091	Capacitor	C295,C320,C338		1.128806	3	257514172.353070
1129747091	Capacitor	C344		1.128806	1	704977644.692287
1169682192	Capacitor	C101,C102,C185, C221,C242,C303		4.744484	6	31179134.677521
1174522180	Capacitor	CP1		4.744484	1	159663026.715137
1189610153	Capacitor	C321,C409		4.744484	2	86049450.747498
1189615154	Capacitor	C103,C75		4.744484	2	86049450.747498
1189633162	Capacitor	C650		4.744484	1	159663026.715137
1189656196	Capacitor	C410,C414,C432, C459,C510		4.744484	5	36944177.000623
1189682199	Capacitor	C241,C262,C92,C93		4.744484	4	45505862.704531
118A656190	Capacitor	C178	14.5	6.167311	1	122828028.167196
11C1501080	Capacitor	C146,C251		1.128806	2	375289731.076049
11C1510390	Capacitor	C143,C160,C161, C162,C163,C164, C165,C166,C167, C324,C415,C574, C575,C576,C577, C578,C579,C580, C581		1.128806	19	44097696.883526
11C2510480	Capacitor	C233,C234,C245, C293,C294,C328, C354,C485,C488, C490,C491,C495, C496		1.128806	13	63728475.410842

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11C4501380	Capacitor	C194,C235,C291		1.128806	3	257514172.353070
11C4522191	Capacitor	C111,C112,C113,C114,C115,C116,C117,C118,C119,C120,C121,C122,C123,C124,C21,C22,C23,C24,C25,C26,C27,C28,C29,C30,C31,C32,C33,C34,C35,C36,C37,C39,C40,C41,C43,C44,C45,C46,C49,C52,C53,C54,C55,C57,C58,C61,C71,C81		1.128806	48	17813540.224875
11C4522290	Capacitor	C225,C269,C329		1.128806	3	257514172.353070
11C4547190	Capacitor	C223,C230,C508,C511,C56,C96		1.128806	6	133979725.056342
11C9501050	Capacitor	C249,C316,C368		1.128806	3	257514172.353070
11C9510050	Capacitor	C601,C602		1.128806	2	375289731.076049
11E1510050	Capacitor	C357,C358,C362,C363,C382,C408,C509		1.128806	7	115633865.771428
11E1522680	Capacitor	C285,C384		1.128806	2	375289731.076049
11E1533780	Capacitor	C231,C356		1.128806	2	375289731.076049
11E2510060	Capacitor	C196,C197,C198,C236,C237,C238,C287,C288,C289		1.128806	9	90863428.080946
11E2647650	Capacitor	C492		1.128806	1	704977644.692287
11E3510010	Capacitor	C494		1.128806	1	704977644.692287

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11E4433090	Capacitor	C319,C395		1.128806	2	375289731.076049
11E9501091	Capacitor	C10,C11,C12 ,C13, C14,C147,C1 48,C15, C151,C153,C 16,C17, C192,C207,C 212, C247,C250,C 270, C272,C283,C 298, C299,C300,C 334, C342,C343,C 345, C348,C389,C 390, C394,C397,C 407, C424,C427,C 428, C442,C448,C 498, C512,C525,C 526, C593,C595,C 596, C598,C599,C 603, C604,C60		1.128806	66	13022034.735679
11E9510050	Capacitor	C109,C219,C 220,C90		1.128806	4	196873384.410843

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11E9522490	Capacitor	C540,C541,C542, C543,C544,C545, C546,C547,C548, C549,C550,C551, C552,C553,C554, C555,C556,C557, C558,C559,C560, C561,C562,C563, C564,C565,C566, C567,C568,C569, C570,C571		1.128806	32	26512863.286539
11E9522790	Capacitor	C171		1.128806	1	704977644.692287
11E9547680	Capacitor	C263,C318,C331,C38, C460,C83		1.128806	6	133979725.056342
11E9610080	Capacitor	C149,C150,C152, C336,C392,C396, C399,C401,C436, C443,C475,C527, C528,C600		1.128806	14	59316298.011235

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11E9622050	Capacitor	C253,C254,C255, C256,C257,C258, C259,C260,C261, C273,C274,C275, C276,C277,C278, C279,C280,C281, C304,C305,C306, C307,C308,C309, C310,C311,C312, C315,C370,C481, C482,C483,C484		1.128806	33	25726061.200507
11E9647680	Capacitor	C209,C216,C467, C519		1.128806	4	196873384.410843
11EA610040	Capacitor	C636,C637,C638, C639,C640,C641, C642,C643,C644, C645,C646,C647, C648,C649		1.128806	14	59316298.011235
1211100113	Inductor	L19		4.944252	1	154760964.143460
1211102470	Inductor	L11,L20		4.944252	2	83201062.149749
1211102470	Inductor	L16	35.3	9.002335	1	84997635.619554
121110476Q	Inductor	L10,L25		4.944252	2	83201062.149749
1211110077	Inductor	L9		4.944252	1	154760964.143460
1212306030	Inductor	FB10,FB11,F B12, FB13,FB14,F B15, FB16,FB17,F B18, FB19,FB6,FB 8,FB9		4.944252	13	14371345.712170
121230805X	Inductor	FB1,FB2		4.944252	2	83201062.149749
12123A0009	Inductor	FB3,FB4		4.944252	2	83201062.149749
12123B000L	Inductor	FB5		4.944252	1	154760964.143460
12123C000C	Inductor	L12,L13,L14, L15, L17,L18		4.944252	6	30055900.223009

File Name: FSB-H81H.rfp
Assembly: 9697FH8108-D
Ref Des:
Description:

Failure Rate: 8352.047103
MTBF (hrs): 119,731
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1214309008	Inductor	L2,L3,L5,L6		4.944252	4	43912872.424775
1214309009	Inductor	L1,L4,L7,L8		4.944252	4	43912872.424775
12310025A3	Miscellaneous	Y1,Y3,Y4		19.200000	3	5742504.738137
1231332726	Miscellaneous	Y2		19.200000	1	23844262.770939
1301005440	Semiconductor	D2,D3,D4		7.793411	3	35106858.962001
1301005442	Semiconductor	D5		7.793411	1	92807310.010983
1301005444	Semiconductor	D1,D11,D12, D7,D8		7.793411	5	21965031.404253
1301013040	Semiconductor	D6		7.793411	1	92807310.010983
1305080040	Semiconductor	U1,U2,U3,U4, U5,U6, U61,U7,U8		22.463360	9	4366472.106532
1310390410	Semiconductor	Q14		22.463360	1	31642600.748419
1310390413	Semiconductor	Q1,Q10,Q13, Q32,Q35, Q38,Q40		22.463360	7	5525968.936223
1314043116	Semiconductor	VR1	30.2	48.198371	1	14747368.258125
1314108412	Semiconductor	U53		22.463360	1	31642600.748419
1314880510	Semiconductor	U50	35.7	54.582173	1	13022550.845249
1315034430	Semiconductor	Q34,Q48		22.463360	2	17315095.066101
1315230511	Semiconductor	Q21		22.463360	1	31642600.748419
1315700216	Semiconductor	Q11,Q15,Q1 8,Q19, Q20,Q22,Q2 5,Q27, Q29,Q30,Q3 3,Q42, Q43,Q46,Q4 7,Q6,Q7, Q8,Q9		22.463360	19	2149533.403027
1315703011	Semiconductor	Q41,Q44		22.463360	2	17315095.066101
1315971500	Semiconductor	U18,U21		22.463360	2	17315095.066101
1315S4C500	Semiconductor	Q17	19.5	37.382034	1	19014458.122658
1315S4C500	Semiconductor	Q5		22.463360	1	31642600.748419
1315S4C550	Semiconductor	Q2,Q3		22.463360	2	17315095.066101
1430973740	Integrated Circuit	U32	50.8	951.687593	1	540316.310925
1430973740	Integrated Circuit	U30,U40		43.803003	2	6834791.244197
14351631A0	Integrated Circuit	U34		43.803003	1	11739202.588727
1440002130	Integrated Circuit	U10,U11,U12, U13		43.803003	4	3879156.910661
144082H810	Integrated Circuit	U38	16.6	133.396862	1	3854755.818320
14S1035803	Integrated Circuit	U28		43.803003	1	11739202.588727
14S2200900	Integrated Circuit	U35		43.803003	1	11739202.588727
14S2750100	Integrated Circuit	U54		43.803003	1	11739202.588727
14S3104500	Integrated Circuit	U14,U22,U25, U27		43.803003	4	3879156.910661
14S3121600	Integrated Circuit	U24		43.803003	1	11739202.588727
14S3128422	Integrated Circuit	U23		43.803003	1	11739202.588727

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
14S3508100	Integrated Circuit	U59		43.803003	1	11739202.588727
14S3902500	Integrated Circuit	U39,U48		43.803003	2	6834791.244197
14S3973100	Integrated Circuit	U44		43.803003	1	11739202.588727
14S4186600	Integrated Circuit	U31		43.803003	1	11739202.588727
14S4519500	Integrated Circuit	U57		43.803003	1	11739202.588727
14S4811103	Integrated Circuit	U29,U56		43.803003	2	6834791.244197
14S4814380	Integrated Circuit	U16,U17		43.803003	2	6834791.244197
14S4889200	Integrated Circuit	U55	28.8	281.669976	1	1825584.453286
14S5920400	Integrated Circuit	U37,U60		26.018600	2	14194252.866846
14S5A01430	Integrated Circuit	U43		26.018600	1	25551442.237972
14S6206403	Integrated Circuit	U41		11.063278	1	58231413.220643
14S9894400	Integrated Circuit	U51		43.803003	1	11739202.588727
1540710280	Resistor	RP1,RP2		9.971436	2	30043399.401299
1540733082	Resistor	RP3		9.971436	1	51606907.671214
1540782280	Resistor	RP4		9.971436	1	51606907.671214
16515C049A	Connection	DIMM1,DIM M2		16.184835	2	20390152.380746
1651611500	Connection	U36		16.184835	1	35685591.360212
1652814202	Connection	CN23,CN33		16.184835	2	20390152.380746
1653003101	Connection	CN24		16.184835	1	35685591.360212
165300310F	Connection	CN29		16.184835	1	35685591.360212
1653003200	Connection	CN10,CN11		16.184835	2	20390152.380746
165300320L	Connection	CN34		16.184835	1	35685591.360212
1653004200	Connection	CN1,CN2		16.184835	2	20390152.380746
165300420F	Connection	CN14		16.184835	1	35685591.360212
165300420Q	Connection	CN26		16.184835	1	35685591.360212
165300520X	Connection	CN12,CN13,C N9		16.184835	3	14515880.849373
165320520T	Connection	CN3,CN4,CN 5,CN6, CN7,CN8		16.184835	6	7958792.615968
1653213203	Connection	CN15		16.184835	1	35685591.360212
1653300100	Connection	CN2(5-7)		16.184835	1	35685591.360212
1653300101	Connection	CN10(3-4), CN11(3-4), CN29(1-2)		16.184835	3	14515880.849373
1653300108	Connection	CN24(1-2), CN34(1-3), CN34(2-4)		16.184835	3	14515880.849373
1654415305	Connection	CN28		16.184835	1	35685591.360212
1654800931	Connection	CN18,CN21		16.184835	2	20390152.380746
1654900703	Connection	CN16,CN17		16.184835	2	20390152.380746
165490700G	Connection	CN19,CN20		16.184835	2	20390152.380746
1655004018	Connection	CN30,CN31		16.184835	2	20390152.380746
1655404025	Connection	CN32		16.184835	1	35685591.360212
1655912032	Connection	CN25		16.184835	1	35685591.360212
175011901H	Connection	BT2		16.184835	1	35685591.360212

**Reliability Prediction
Summary**

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Assembly: 9697FH8108-D
Ref Des:
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MTBF (hrs): 119,731
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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1750220326	Miscellaneous	BT1		306.000000	1	1681683.006787
1752000501	Miscellaneous	FS1,FS2		2.400000	2	143944727.196625
1752001603	Miscellaneous	FS3,FS4,FS5		2.400000	3	101854599.204190