

# FSB-B75H

## Reliability Prediction Report

### (MTBF)

Summary	Failure Rate: 16.559081 ppm MTBF: 60,390 Hours
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Issue date	Approval	Test Engineer
2012/09/10	Tom Lin	Jessica Chou

# Reliability Prediction (MTBF)

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**I . Model Name:** FSB-B75H (9697FB7502-D)

**II . Prediction Date:** Sep. 10<sup>th</sup>, 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: 25.0 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:**

FSB-B75H (9697FB7502-D):

- Failure Rate: 16.559081ppm

- MTBF: 60,390 (hour)

### AAEON Reliability Prediction Report

**Part Number** 9697FB7502-D  
**Reference Des**  
**Date** 09. 10, 2012  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.00



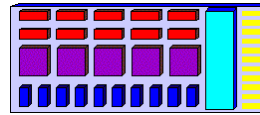
**Description** Top-level assembly  
**File Name** FSB-B75H.RPJ  
**Time** 16:19  
**Failure Rate** 16.559081  
**MTBF** 60,390

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
FSB-B75H	9697FB7502-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	16.56	60389.82



**AAEON Reliability Prediction Report**

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**Temp. (°C)** 25.00



**Description** Top-level assembly  
**File Name** FSB-B75H.RPJ  
**Time** 16:19  
**Failure Rate** 16.559081  
**MTBF** 60,390

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1129701791	Capacitor	C101,C105,C120, C131,C132,C133, C134,C139,C142, C150,C156,C190,C20, C21,C22,C223,C225, C23,C262,C266,C31, C32,C33,C34,C42, C43,C44,C45,C63, C64,C65,C66,C69	Telcordia Issue 1	Level I		33.00	0.004535	.9038	220487045.01
11E2501080	Capacitor	C102,C103,C172, C173,C25,C263,C264, C47,C48	Telcordia Issue 1	Level I		9.00	0.004535	.2465	220487045.01
1124410191	Capacitor	C144,C157,C26	Telcordia Issue 1	Level I		3.00	0.004535	.0822	220487045.01
1124418190	Capacitor	C27	Telcordia Issue 1	Level I		1.00	0.004535	.0274	220487045.01
1122522890	Capacitor	C224,C28,C30	Telcordia Issue 1	Level I		3.00	0.004535	.0822	220487045.01
1129747091	Capacitor	C185,C29	Telcordia Issue 1	Level I		2.00	0.004535	.0548	220487045.01
11E9622050	Capacitor	C111,C112,C113, C114,C115,C116, C117,C118,C119, C121,C122,C123, C124,C125,C126, C127,C128,C129, C130,C160,C164, C169,C193,C194, C214,C38,C41,C90, C91,C92,C93,C94, C95,C96,C97	Telcordia Issue 1	Level I		35.00	0.004535	.9586	220487045.01
1129722091	Capacitor	C50,C56,C62	Telcordia Issue 1	Level I		3.00	0.004535	.0822	220487045.01
1129710091	Capacitor	C52,C58,C59,C67, C68,C72	Telcordia Issue 1	Level I		6.00	0.004535	.1643	220487045.01
11A4410280	Capacitor	C54	Telcordia Issue 1	Level I		1.00	0.004535	.0274	220487045.01
11E1647650	Capacitor	C260,C57,C81	Telcordia Issue 1	Level I		3.00	0.004535	.0822	220487045.01
1124433190	Capacitor	C170,C70	Telcordia Issue 1	Level I		2.00	0.004535	.0548	220487045.01
1124418090	Capacitor	C77,C82	Telcordia Issue 1	Level I		2.00	0.004535	.0548	220487045.01
1124427091	Capacitor	C187,C192,C219, C220,C83,C84	Telcordia Issue 1	Level I		6.00	0.004535	.1643	220487045.01
1124522290	Capacitor	C100,C155	Telcordia Issue 1	Level I		2.00	0.004535	.0548	220487045.01
1124556280	Capacitor	C140	Telcordia Issue 1	Level I		1.00	0.004535	.0274	220487045.01
11C4582190	Capacitor	C145,C184	Telcordia Issue 1	Level I		2.00	0.004535	.0548	220487045.01
11C1533890	Capacitor	C147,C165	Telcordia Issue 1	Level I		2.00	0.004535	.0548	220487045.01
11C4512290	Capacitor	C174	Telcordia Issue 1	Level I		1.00	0.004535	.0274	220487045.01
1124533280	Capacitor	C175	Telcordia Issue 1	Level I		1.00	0.004535	.0274	220487045.01
1124468090	Capacitor	C180	Telcordia Issue 1	Level I		1.00	0.004535	.0274	220487045.01

**AAEON Reliability Prediction Report**

**Part Number** 9697FB7502-D  
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**Temp. (°C)** 25.00

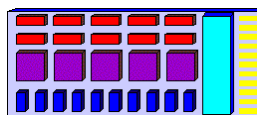


**Description** Top-level assembly  
**File Name** FSB-B75H.RPJ  
**Time** 16:19  
**Failure Rate** 16.559081  
**MTBF** 60,390

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
11C1547890	Capacitor	C189,C200	Telcordia Issue 1	Level I		2.00	0.004535	.0548	220487045.01
11C1522480	Capacitor	C202	Telcordia Issue 1	Level I		1.00	0.004535	.0274	220487045.01
07G001001131	Semiconductor	D1,D36,D37,D42,D51, D52,D53,D54	Telcordia Issue 1	Level I		8.00	0.023881	1.1537	41874327.58
1305100541	Semiconductor	D10,D11,D12,D13, D14,D15,D16,D17, D18,D19,D2,D20,D21, D22,D23,D24,D25, D27,D28,D29,D3,D30, D31,D32,D33,D34,D4, D5,D6,D7,D8,D9	Telcordia Issue 1	Level I		32.00	0.023881	4.6149	41874327.58
1300581940	Semiconductor	D26,D35,D46,D48	Telcordia Issue 1	Level I		4.00	0.079603	1.9229	12562298.27
07G001000340	Semiconductor	D38,D39,D40,D41, D43,D44,D45	Telcordia Issue 1	Level I		7.00	0.023881	1.0095	41874327.58
1301053040	Semiconductor	D49,D50	Telcordia Issue 1	Level I		2.00	0.023881	.2884	41874327.58
1189612191	Capacitor	EC43	Telcordia Issue 1	Level I		1.00	0.004535	.0274	220487045.01
12123C000A	Inductor	FB1,FB13,FB14,FB4	Telcordia Issue 1	Level I		4.00	0.002268	.0548	440974090.03
12123C0010	Inductor	FB15,FB2,FB3	Telcordia Issue 1	Level I		3.00	0.002268	.0411	440974090.03
12123C000C	Inductor	FB10,FB5,FB6,FB7, FB8,FB9	Telcordia Issue 1	Level I		6.00	0.002268	.0822	440974090.03
121230805B	Inductor	FB11	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
1752300000	Miscellaneous	F1,F2	Telcordia Issue 1	Level I		2.00	0.003000	.0362	333333333.33
1752002700	Miscellaneous	F3,F4,F5	Telcordia Issue 1	Level I		3.00	0.003000	.0544	333333333.33
121110100F	Inductor	LI19,LI20,LI22	Telcordia Issue 1	Level I		3.00	0.086173	1.5612	11604581.32
1211101069	Inductor	L2,L3	Telcordia Issue 1	Level I		2.00	0.002268	.0274	440974090.03
121110476P	Inductor	L14,L5	Telcordia Issue 1	Level I		2.00	0.002268	.0274	440974090.03
1211103671	Inductor	L10	Telcordia Issue 1	Level I	18.20	1.00	0.120598	.7283	8292016.50
1211103671	Inductor	L13	Telcordia Issue 1	Level I	28.20	1.00	0.142761	.8621	7004720.06
1211103671	Inductor	L6	Telcordia Issue 1	Level I	26.20	1.00	0.138139	.8342	7239074.69
121110106T	Inductor	L7	Telcordia Issue 1	Level I		1.00	0.086173	.5204	11604581.32
07G003000213	Semiconductor	Q1,Q2,Q21,Q22,Q25, Q38,Q43,Q5,Q52,Q58, Q59,Q60,Q66,Q68, Q72,Q73	Telcordia Issue 1	Level I		16.00	0.023881	2.3075	41874327.58
1301005450	Semiconductor	Q10,Q11,Q3,Q42,Q62	Telcordia Issue 1	Level I		5.00	0.023881	.7211	41874327.58
1311390610	Semiconductor	Q4,Q48	Telcordia Issue 1	Level I		2.00	0.023881	.2884	41874327.58
07G005000B20	Semiconductor	Q12,Q16,Q17,Q23, Q26,Q29,Q30,Q32, Q35,Q36,Q37,Q39, Q54,Q6,Q63,Q64,Q67, Q70,Q75,Q8,Q9	Telcordia Issue 1	Level I		21.00	0.159207	20.1904	6281149.14
1310222211	Semiconductor	Q7	Telcordia Issue 1	Level I		1.00	0.023881	.1442	41874327.58

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**Temp. (°C)** 25.00



**Description** Top-level assembly  
**File Name** FSB-B75H.RPJ  
**Time** 16:19  
**Failure Rate** 16.559081  
**MTBF** 60,390

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1315503010	Semiconductor	Q13,Q14,Q27,Q28, Q45,Q46,Q53,Q55, Q56,Q71,Q74	Telcordia Issue 1	Level I		11.00	0.000000	.0000	.00
1315703011	Semiconductor	Q15,Q18,Q34,Q50,Q51,Q57, Q61,Q65,Q69	Telcordia Issue 1	Level I		9.00	0.159207	8.6530	6281149.14
1315703011	Semiconductor	Q33	Telcordia Issue 1	Level I	25.50	1.00	0.312717	1.8885	3197782.84
1315703011	Semiconductor	Q31	Telcordia Issue 1	Level I	27.50	1.00	0.328249	1.9823	3046466.66
1315344311	Integrated Circuit	Q20,U11,U28	Telcordia Issue 1	Level I		3.00	0.059366	1.0755	16844654.92
1540710280	Resistor	RN1,RP1,RP2	Telcordia Issue 1	Level I		3.00	0.006246	.1132	160102772.00
1540722280	Resistor	RN2,RN3,RN4,RN5	Telcordia Issue 1	Level I		4.00	0.006246	.1509	160102772.00
1540722080	Resistor	RN6,RN7,RN8	Telcordia Issue 1	Level I		3.00	0.006246	.1132	160102772.00
1540782282	Resistor	RN9	Telcordia Issue 1	Level I		1.00	0.012492	.0754	80051386.00
1540782080	Resistor	RN10	Telcordia Issue 1	Level I		1.00	0.006246	.0377	160102772.00
106B706820	Resistor	RT1,RT3	Telcordia Issue 1	Level I		2.00	0.011379	.1374	87878027.07
106B501032	Resistor	RT2,RT4	Telcordia Issue 1	Level I		2.00	0.011379	.1374	87878027.07
105A500139	Resistor	R1,R10,R101,R103, R105,R129,R13,R134, R187,R2,R202,R217, R219,R22,R225,R237, R25,R258,R28,R284, R3,R308,R31,R33, R342,R348,R35,R413, R452,R456,R466, R467,R468,R5,R501, R507,R559,R573, R597,R6,R63,R633, R636,R69,R717,R8, R87	Telcordia Issue 1	Level I		47.00	0.002268	.6436	440974090.03
105A700009	Resistor	C228,C229,C230, C231,C232,C233, C234,C235,C236, C237,C238,C239, C240,C241,C242, C243,C244,C245, C246,C247,C248, C249,C250,C251, C252,C253,C254, C255,C256,C257, C258,C259,R106, R107,R118,R138, R141,R145,R153,	Telcordia Issue 1	Level I		166.00	0.002268	2.2733	440974090.03



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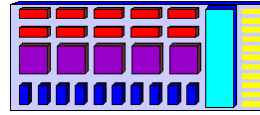


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**File Name** FSB-B75H.RPJ  
**Time** 16:19  
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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1050504724	Resistor	R120,R122,R175, R271,R277,R314, R330,R331,R372, R375,R378,R409, R416,R442,R455, R464,R512,R529, R533,R539,R555, R618,R619,R64,R647, R649,R67,R68,R7, R713,R716	Telcordia Issue 1	Level I		31.00	0.002268	.4245	440974090.03
1050533004	Resistor	R11,R12,R19	Telcordia Issue 1	Level I		3.00	0.002268	.0411	440974090.03
1050547004	Resistor	R15,R21	Telcordia Issue 1	Level I		2.00	0.002268	.0274	440974090.03
1050502204	Resistor	R155,R18,R494,R545, R546,R547,R569	Telcordia Issue 1	Level I		7.00	0.002268	.0959	440974090.03
105A501039	Resistor	R109,R112,R113, R114,R116,R121, R133,R139,R142, R143,R146,R150, R158,R159,R171, R176,R177,R184, R185,R194,R196, R200,R206,R211, R214,R220,R23,R235, R241,R242,R243, R244,R254,R26,R270, R276,R283,R297,R30, R302,R303,R304,	Telcordia Issue 1	Level I		103.00	0.002268	1.4105	440974090.03
105A501539	Resistor	R163,R167,R239,R37, R503,R94	Telcordia Issue 1	Level I		6.00	0.002268	.0822	440974090.03
1050508224	Resistor	R108,R156,R180,R38, R401,R408,R427, R541,R659,R660, R661,R662,R663, R664,R665,R666, R667,R668,R669, R670,R671,R672, R673,R679,R680, R681,R682,R683, R684,R714,R715,R72, R73	Telcordia Issue 1	Level I		33.00	0.002268	.4519	440974090.03
105A702269	Resistor	R100,R144,R148, R259,R430,R540, R543,R591,R639,R66, R85	Telcordia Issue 1	Level I		11.00	0.002268	.1506	440974090.03
105A506823	Resistor	R74	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
1050703334	Resistor	R77,R88	Telcordia Issue 1	Level I		2.00	0.002268	.0274	440974090.03

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**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.00



**Description** Top-level assembly  
**File Name** FSB-B75H.RPJ  
**Time** 16:19  
**Failure Rate** 16.559081  
**MTBF** 60,390

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1050502734	Resistor	R626,R627,R82	Telcordia Issue 1	Level I		3.00	0.002268	.0411	440974090.03
105A701039	Resistor	R192,R203,R578, R595,R654,R692	Telcordia Issue 1	Level I		6.00	0.002268	.0822	440974090.03
1050539004	Resistor	R89	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A702263	Resistor	R197,R350,R576, R612,R92	Telcordia Issue 1	Level I		5.00	0.002268	.0685	440974090.03
1050502224	Resistor	R212,R229,R273, R274,R462,R508, R509,R536,R538, R561,R562,R98	Telcordia Issue 1	Level I		12.00	0.002268	.1643	440974090.03
1050522004	Resistor	R99	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A501129	Resistor	R102,R104	Telcordia Issue 1	Level I		2.00	0.002268	.0274	440974090.03
105A703329	Resistor	R110	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A500239	Resistor	R111,R136	Telcordia Issue 1	Level I		2.00	0.002268	.0274	440974090.03
105A502039	Resistor	R117,R126,R234, R388,R426	Telcordia Issue 1	Level I		5.00	0.002268	.0685	440974090.03
105A515009	Resistor	R127,R157,R166, R182,R491,R492, R493,R586,R607	Telcordia Issue 1	Level I		9.00	0.002268	.1233	440974090.03
1050503924	Resistor	R128	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A503309	Resistor	R140,R201,R257, R268,R278,R285, R298,R439,R472, R474	Telcordia Issue 1	Level I		10.00	0.002268	.1369	440974090.03
105A702729	Resistor	R149,R170	Telcordia Issue 1	Level I		2.00	0.002268	.0274	440974090.03
105A700003	Resistor	R162,R209,R233, R275,R499,R556, R598,R603,R629, R640,R685,R699	Telcordia Issue 1	Level I		12.00	0.002268	.1643	440974090.03
1050504760	Resistor	R169	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
1050701504	Resistor	R181,R191,R216, R224	Telcordia Issue 1	Level I		4.00	0.002268	.0548	440974090.03
105A702039	Resistor	R183	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
1050501004	Resistor	R186,R248,R253, R263,R265,R332, R453,R511,R719	Telcordia Issue 1	Level I		9.00	0.002268	.1233	440974090.03
105A501033	Resistor	R198,R351,R436, R577,R611	Telcordia Issue 1	Level I		5.00	0.002268	.0685	440974090.03
105A739039	Resistor	R205,R210	Telcordia Issue 1	Level I		2.00	0.002268	.0274	440974090.03
1059700001	Resistor	R213,R221,R250, R261,R600,R630, R634,R642,R648, R652	Telcordia Issue 1	Level I		10.00	0.002268	.1369	440974090.03
105A512009	Resistor	R218	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A511313	Resistor	R222	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A701069	Resistor	R223	Telcordia Issue 1	Level I		1.00	0.013606	.0822	73495681.67

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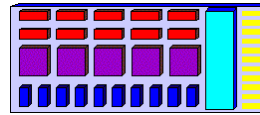


**Description** Top-level assembly  
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**Time** 16:19  
**Failure Rate** 16.559081  
**MTBF** 60,390

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1050520004	Resistor	R226	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A524913	Resistor	R227,R637	Telcordia Issue 1	Level I		2.00	0.002268	.0274	440974090.03
105A701059	Resistor	R230,R489	Telcordia Issue 1	Level I		2.00	0.002268	.0274	440974090.03
1050510034	Resistor	R240,R245,R251, R306,R518,R585	Telcordia Issue 1	Level I		6.00	0.002268	.0822	440974090.03
1050524904	Resistor	R249,R513	Telcordia Issue 1	Level I		2.00	0.002268	.0274	440974090.03
105A502003	Resistor	R260	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A515419	Resistor	R262	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
1050538314	Resistor	R267	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A505109	Resistor	R282,R289,R291, R292,R324,R325, R335	Telcordia Issue 1	Level I		7.00	0.002268	.0959	440974090.03
105A514023	Resistor	R294	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A510009	Resistor	R295,R296,R441, R449,R476,R484, R514,R593,R620, R621,R631,R632, R644,R697	Telcordia Issue 1	Level I		14.00	0.002268	.1917	440974090.03
1050518714	Resistor	R349	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A501529	Resistor	R315,R316	Telcordia Issue 1	Level I		2.00	0.002268	.0274	440974090.03
1050524909	Resistor	R333,R465,R601	Telcordia Issue 1	Level I		3.00	0.002268	.0411	440974090.03
105A575009	Resistor	R339,R412,R440	Telcordia Issue 1	Level I		3.00	0.002268	.0411	440974090.03
105A514734	Resistor	R347,R471	Telcordia Issue 1	Level I		2.00	0.002268	.0274	440974090.03
105A768009	Resistor	R353,R487	Telcordia Issue 1	Level I		2.00	0.002268	.0274	440974090.03
105A507509	Resistor	R365,R548	Telcordia Issue 1	Level I		2.00	0.002268	.0274	440974090.03
1050544264	Resistor	R366	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
1050511009	Resistor	R367,R410	Telcordia Issue 1	Level I		2.00	0.002268	.0274	440974090.03
1050513714	Resistor	R368	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A549969	Resistor	R373,R417	Telcordia Issue 1	Level I		2.00	0.002268	.0274	440974090.03
105A537463	Resistor	R377	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
1050504734	Resistor	R385	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
1050505604	Resistor	R389	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A549919	Resistor	R403	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A532433	Resistor	R423	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
1050551034	Resistor	R424	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
1050549934	Resistor	R434,R443,R497	Telcordia Issue 1	Level I		3.00	0.002268	.0411	440974090.03
105A702429	Resistor	R435	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A502123	Resistor	R450	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
1050513724	Resistor	R469	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03

**AAEON Reliability Prediction Report**

**Part Number** 9697FB7502-D  
**Reference Des**  
**Date** 09. 10, 2012  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.00



**Description** Top-level assembly  
**File Name** FSB-B75H.RPJ  
**Time** 16:19  
**Failure Rate** 16.559081  
**MTBF** 60,390

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A516933	Resistor	R479	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
1050590964	Resistor	R483	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
1050500334	Resistor	R515	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A514033	Resistor	R525	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A573213	Resistor	R531,R532	Telcordia Issue 1	Level I		2.00	0.002268	.0274	440974090.03
1050517804	Resistor	R549	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
1050727009	Resistor	R551,R552,R553	Telcordia Issue 1	Level I		3.00	0.002268	.0411	440974090.03
105A571513	Resistor	R560	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A527413	Resistor	R564	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A518233	Resistor	R567	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
1050578714	Resistor	R579,R580,R581	Telcordia Issue 1	Level I		3.00	0.002268	.0411	440974090.03
105A566519	Resistor	R582	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
1059700101	Resistor	R583	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A702053	Resistor	R590	Telcordia Issue 1	Level I		1.00	0.013606	.0822	73495681.67
105A536529	Resistor	R610	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A515034	Resistor	R622	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A702209	Resistor	R641,R643,R646, R655	Telcordia Issue 1	Level I		4.00	0.002268	.0548	440974090.03
1050551004	Resistor	R657	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
1050548714	Resistor	R678	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
1050582514	Resistor	R721	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
11E9610080	Capacitor	TC1,TC10,TC11,TC13,TC15,TC16,TC18,TC2,TC20,TC22,TC25,TC26,TC29,TC3,TC30,TC31,TC32,TC34,TC35,TC36,TC4,TC5, TC6,TC8,TC9	Telcordia Issue 1	Level I		25.00	0.004535	.6847	220487045.01
11G235210611320	Capacitor	TC14,TC21,TC24,TC28,TC33,TC7	Telcordia Issue 1	Level I		6.00	0.004535	.1643	220487045.01
14S4048502	Integrated Circuit	U1,U6	Telcordia Issue 1	Level I		2.00	0.059366	.7170	16844654.92
14S4021301	Integrated Circuit	U2,U3	Telcordia Issue 1	Level I		2.00	0.059366	.7170	16844654.92
1314917314	Integrated Circuit	U4	Telcordia Issue 1	Level I		1.00	0.059366	.3585	16844654.92
1315970211	Semiconductor	U13,U5	Telcordia Issue 1	Level I		2.00	0.159207	1.9229	6281149.14
14S5A12506	Integrated Circuit	U7	Telcordia Issue 1	Level I		1.00	0.026183	.1581	38193355.79
14S5A01400	Integrated Circuit	U8	Telcordia Issue 1	Level I		1.00	0.059366	.3585	16844654.92
14S5812502	Integrated Circuit	U9	Telcordia Issue 1	Level I		1.00	0.026183	.1581	38193355.79
14S2634100	Integrated Circuit	U10	Telcordia Issue 1	Level I		1.00	0.026183	.1581	38193355.79
14S3801400	Integrated Circuit	U14	Telcordia Issue 1	Level I		1.00	0.059366	.3585	16844654.92

### AAEON Reliability Prediction Report

**Part Number** 9697FB7502-D  
**Reference Des**  
**Date** 09. 10, 2012  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.00

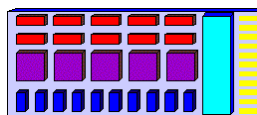


**Description** Top-level assembly  
**File Name** FSB-B75H.RPJ  
**Time** 16:19  
**Failure Rate** 16.559081  
**MTBF** 60,390

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
14S9661200	Integrated Circuit	U15,U23,U35,U43	Telcordia Issue 1	Level I		4.00	0.059366	1.4340	16844654.92
14S6334610	Integrated Circuit	U16,U41	Telcordia Issue 1	Level I		2.00	0.022943	.2771	43586356.53
02043-000901MI	Integrated Circuit	U17,U39	Telcordia Issue 1	Level I		2.00	0.026183	.3162	38193355.79
14S42B7500	Integrated Circuit	U19	Telcordia Issue 1	Level I	15.40	1.00	0.061924	.3740	16148783.64
14S4081102	Integrated Circuit	U20	Telcordia Issue 1	Level I		1.00	0.026183	.1581	38193355.79
1651611551	Connection	U22	Telcordia Issue 1	Level I		1.00	0.001138	.0069	878780270.71
14S5912300	Integrated Circuit	U24	Telcordia Issue 1	Level I		1.00	0.026183	.1581	38193355.79
14S9144200	Integrated Circuit	U31	Telcordia Issue 1	Level I	12.50	1.00	0.053002	.3201	18867121.96
14S4362707	Integrated Circuit	U32	Telcordia Issue 1	Level I		1.00	0.026183	.1581	38193355.79
14S3636400	Integrated Circuit	U33	Telcordia Issue 1	Level I		1.00	0.026183	.1581	38193355.79
14S3587000	Integrated Circuit	U36	Telcordia Issue 1	Level I		1.00	0.059366	.3585	16844654.92
1314108412	Integrated Circuit	U37	Telcordia Issue 1	Level I		1.00	0.059366	.3585	16844654.92
14S5A01430	Integrated Circuit	U40	Telcordia Issue 1	Level I		1.00	0.026183	.1581	38193355.79
14S2750100	Integrated Circuit	U42	Telcordia Issue 1	Level I		1.00	0.059366	.3585	16844654.92
14S3508100	Integrated Circuit	U44	Telcordia Issue 1	Level I		1.00	0.059366	.3585	16844654.92
1314043113	Integrated Circuit	VR1	Telcordia Issue 1	Level I	25.00	1.00	0.320878	1.9378	3116453.93
1314043113	Integrated Circuit	VR2	Telcordia Issue 1	Level I		1.00	0.059366	.3585	16844654.92
1231332721	Miscellaneous	X1	Telcordia Issue 1	Level I		1.00	0.150000	.9058	6666666.67
123132505D	Miscellaneous	X2,Y1,Y2	Telcordia Issue 1	Level I		3.00	0.150000	2.7175	6666666.67
14S1035803	Integrated Circuit	U12,U21,U45	Telcordia Issue 1	Level I		3.00	0.059366	1.0755	16844654.92
14S6201280	Integrated Circuit	U18	Telcordia Issue 1	Level I		1.00	0.026183	.1581	38193355.79
1059702261	Resistor	R135,R247,R428, R686	Telcordia Issue 1	Level I		4.00	0.002268	.0548	440974090.03
1050537404	Resistor	R322	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A523213	Resistor	R305	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
105A519113	Resistor	R457	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
1050501234	Resistor	R86	Telcordia Issue 1	Level I		1.00	0.002268	.0137	440974090.03
12G20010020F	Connection	BT1	Telcordia Issue 1	Level I		1.00	0.001138	.0069	878780270.71
07G016522032	Miscellaneous	BT1	Telcordia Issue 1	Level I		1.00	0.900000	5.4351	1111111.11
09G05000002L	Miscellaneous	BZ1	Telcordia Issue 1	Level I		1.00	0.150000	.9058	6666666.67
1653005205	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.005690	.0344	175756054.14
1653002100	Connection	CN4	Telcordia Issue 1	Level I		1.00	0.001138	.0069	878780270.71
165300420F	Connection	CN6	Telcordia Issue 1	Level I		1.00	0.004552	.0275	219695067.68
165320520Y	Connection	COM1,COM2,DIO1	Telcordia Issue 1	Level I		3.00	0.001138	.0206	878780270.71
12G08000504V	Connection	CPU_FAN1,SYS_FAN1	Telcordia Issue 1	Level I		2.00	0.001138	.0137	878780270.71
16515C0499	Connection	DIMM1,DIMM2	Telcordia Issue 1	Level I		2.00	0.001138	.0137	878780270.71
1654930309	Connection	DVI1	Telcordia Issue 1	Level I		1.00	0.001138	.0069	878780270.71

### AAEON Reliability Prediction Report

**Part Number** 9697FB7502-D  
**Reference Des**  
**Date** 09. 10, 2012  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.00



**Description** Top-level assembly  
**File Name** FSB-B75H.RPJ  
**Time** 16:19  
**Failure Rate** 16.559081  
**MTBF** 60,390

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1189656196	Capacitor	EC1,EC11,EC12,EC14, EC15,EC16,EC17, EC19,EC20,EC22, EC25,EC28,EC29,EC3, EC34,EC39,EC4,EC42, EC44,EC45,EC47,EC5, EC50,EC52,EC53, EC55,EC6,EC8,EC9	Telcordia Issue 1	Level I		29.00	0.004535	.7943	220487045.01
1169682192	Capacitor	EC10,EC13,EC21, EC23,EC30,EC33, EC35,EC36,EC37, EC46,EC48	Telcordia Issue 1	Level I		11.00	0.005466	.3631	182961702.19
1181647112	Capacitor	EC24,EC31,EC49	Telcordia Issue 1	Level I		3.00	0.004535	.0822	220487045.01
1653217205	Connection	FDD1	Telcordia Issue 1	Level I		1.00	0.019345	.1168	51692957.10
1653004200	Connection	FP1,FP2	Telcordia Issue 1	Level I		2.00	0.004552	.0550	219695067.68
1653003101	Connection	JP2	Telcordia Issue 1	Level I		1.00	0.001707	.0103	585853513.81
1653003100	Connection	JP3	Telcordia Issue 1	Level I		1.00	0.001138	.0069	878780270.71
165251420G	Connection	LAN1,LAN2	Telcordia Issue 1	Level I		2.00	0.001138	.0137	878780270.71
1653213203	Connection	LPT1	Telcordia Issue 1	Level I		1.00	0.014793	.0893	67598482.36
1211105674	Inductor	L1,L4	Telcordia Issue 1	Level I		2.00	0.086173	1.0408	11604581.32
12G15705007X	Connection	SATA1	Telcordia Issue 1	Level I		1.00	0.028449	.1718	35151210.83
12G15705007Y	Connection	SATA2,SATA3	Telcordia Issue 1	Level I		2.00	0.001138	.0137	878780270.71
165321020D	Connection	USB1,USB5	Telcordia Issue 1	Level I		2.00	0.022759	.2749	43939013.54
1653005201	Connection	USB2	Telcordia Issue 1	Level I		1.00	0.001138	.0069	878780270.71
1654804100	Connection	USB4,USB6	Telcordia Issue 1	Level I		2.00	0.002276	.0275	439390135.35