

FSB-G41H

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 14.764276 ppm MTBF: 67,731 Hours
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Issue date	Approval	Test Engineer
2011/02/18	Jansin Lee	Jessica Chou

Reliability Prediction (MTBF)

I . Model Name: TF-FSB-G41H-A10-G2

II . Prediction Date: Feb. 18, 2011

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

IV . Predicted by: Jessica Chou

V . Equipment: Relx Ver.7.3 Visual Reliability Software

VI. Simulation Environment:

- Temperature: 22.1 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:

TF-FSB-G41H-A10-G2:

- Failure Rate: 14.764276 ppm

- MTBF: 67,731 Hours

AAEON Reliability Prediction Report

Part Number 9697G41H03-D
Reference Des
Date 02. 18, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 22.10

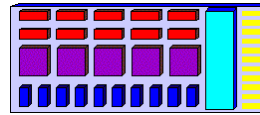


Description Top-level assembly
File Name FSB-G41H.RPJ
Time 13:59
Failure Rate 14.764276
MTBF 67,731

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-FSB-G41H-A10-G2	9697G41H03-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	14.76	67731.06

AAEON Reliability Prediction Report

Part Number 9697G41H03-D
Reference Des
Date 02. 18, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 22.10



Description Top-level assembly
File Name FSB-G41H.RPJ
Time 13:59
Failure Rate 14.764276
MTBF 67,731

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
11E2501080	Capacitor	BC110,BC111,BC8, BC9,C101,C108,C125, C138,C149,C15,C160, C161,C194,C196, C197,C224,C240, C253,C254,C255,C27, C271,C281,C283,C29, C298,C30,C300,C31, C34,C35,C67,C72, C82,C85,C87,C89	Telcordia Issue 1	Level I		37.00	0.004282	1.0732	233509715.85
1174510180	Capacitor	CP1,CP2,CP3,CP4	Telcordia Issue 1	Level I		4.00	0.005362	.1453	186495125.46
11E1622060	Capacitor	C47,C48,C51,C54, C55,C58,C64,C70, TC10,TC11,TC13, TC14,TC16,TC17, TC18,TC19,TC9	Telcordia Issue 1	Level I		17.00	0.004282	.4931	233509715.85
1124433090	Capacitor	C169	Telcordia Issue 1	Level I		1.00	0.004282	.0290	233509715.85
1129710090	Capacitor	C142,C182,C219, C225,C232,C244	Telcordia Issue 1	Level I		6.00	0.004282	.1740	233509715.85
11E9722090	Capacitor	C195,C213,C42,C49, C52,DC1	Telcordia Issue 1	Level I		6.00	0.004282	.1740	233509715.85
11E1522680	Capacitor	C113,C14,C18,C280, C282,C296,C306, C310,C311,C4,C7, C94	Telcordia Issue 1	Level I		12.00	0.004282	.3481	233509715.85
1129610080	Capacitor	C259,TC29,TC30, TC31,TC33,TC40, TC41,TC43,TC44, TC45,TC46,TC47, TC48,TC49,TC50, TC51,TC52,TC53, TC55,TC56,TC57,TC6, TC60,TC61,TC63, TC64,TC65,TC66, TC68,TC69,TC7	Telcordia Issue 1	Level I		31.00	0.004282	.8992	233509715.85
11E2647650	Capacitor	C103,C121,C178, C210,C216,C230, C262,C45,C71	Telcordia Issue 1	Level I		9.00	0.004282	.2611	233509715.85
11E9622050	Capacitor	C309,C93,TC21,TC34, TC59,TC8	Telcordia Issue 1	Level I		6.00	0.004282	.1740	233509715.85
1122501780	Capacitor	C13,C140,C179,C189, C192,C217,C239, C247,C248,C249, C260,C266,C274, C275,C313,C315,C33	Telcordia Issue 1	Level I		17.00	0.004282	.4931	233509715.85

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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
11E9547680	Capacitor	C184,C200,C208, C273,C277,C279, C297,C301	Telcordia Issue 1	Level I		8.00	0.004282	.2320	233509715.85
1124427090	Capacitor	C39,C41,C75,C76, C91,C92	Telcordia Issue 1	Level I		6.00	0.004282	.1740	233509715.85
1121647780	Capacitor	C66	Telcordia Issue 1	Level I		1.00	0.004282	.0290	233509715.85
11C2501790	Capacitor	BC119,BC198,BC24, BC62,C105,C117, C153,C154,C155, C156,C172,C173, C174,C175,C183, C185,C186,C187, C188,C201,C202, C203,C204,C21,C211, C218,C23,C231,C287, C312,C5,C77,C79, C80,C81	Telcordia Issue 1	Level I		35.00	0.004282	1.0152	233509715.85
1124447080	Capacitor	C100,C107,C109, C112,C123,C124	Telcordia Issue 1	Level I		6.00	0.005362	.2179	186495125.46
11E2601050	Capacitor	C12,C145,C171,C191, C242,C251,C264, C308	Telcordia Issue 1	Level I		8.00	0.004282	.2320	233509715.85
11C1510060	Capacitor	C159,C176,C193, C229,C250,C302	Telcordia Issue 1	Level I		6.00	0.004282	.1740	233509715.85
1124568180	Capacitor	C147	Telcordia Issue 1	Level I		1.00	0.004282	.0290	233509715.85
1124468090	Capacitor	C10,C11,C8,C9	Telcordia Issue 1	Level I		4.00	0.004282	.1160	233509715.85
11C1547890	Capacitor	C141,C181	Telcordia Issue 1	Level I		2.00	0.004282	.0580	233509715.85
1122522890	Capacitor	C104	Telcordia Issue 1	Level I		1.00	0.004282	.0290	233509715.85
11E1510050	Capacitor	C40,C88,EC42,TC1, TC12,TC15,TC2,TC20, TC22,TC23,TC24, TC25,TC26,TC27,TC3, TC32,TC35,TC36, TC37,TC38,TC39,TC4, TC42,TC5,TC58,TC62, TC67,TC70	Telcordia Issue 1	Level I		28.00	0.004282	.8122	233509715.85
1181647080	Capacitor	EC29	Telcordia Issue 1	Level I		1.00	0.004282	.0290	233509715.85
1301005442	Semiconductor	D19	Telcordia Issue 1	Level I		1.00	0.021953	.1487	45551211.73
1300414843	Semiconductor	D1	Telcordia Issue 1	Level I		1.00	0.021953	.1487	45551211.73
1315889612	Semiconductor	D14,Q13,Q14,Q16, Q20,Q21,Q33,Q34, Q46,Q47,Q7	Telcordia Issue 1	Level I		11.00	0.073178	5.4520	13665363.52
1315888010	Semiconductor	D22,Q12,Q6,Q73,Q81, Q87	Telcordia Issue 1	Level I		6.00	0.073178	2.9738	13665363.52
11E9547060	Capacitor	EC14	Telcordia Issue 1	Level I		1.00	0.004282	.0290	233509715.85
1189647180	Capacitor	EC17,EC34,EC35, EC39	Telcordia Issue 1	Level I		4.00	0.004282	.1160	233509715.85
118962218B	Capacitor	EC12,EC33,EC36, EC38	Telcordia Issue 1	Level I		4.00	0.004282	.1160	233509715.85

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Failure Rate 14.764276
MTBF 67,731

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1189622850	Capacitor	EC37, EC40	Telcordia Issue 1	Level I		2.00	0.004282	.0580	233509715.85
1059700001	Resistor	FB41, FB43, FB46, FB47, FB48, FB52	Telcordia Issue 1	Level I		6.00	0.002141	.0870	467019431.70
105A700003	Resistor	FB11, FB44, FB45, FB6, FB9, R133, R150, R175, R181, R182, R204, R205, R224, R226, R234, R235, R239, R240, R295, R317, R320, R329, R33, R343, R345, R346, R348, R349, R419, R430, R444, R497, R503, R510, R511, R513, R514, R524, R602, R642, R663, R665,	Telcordia Issue 1	Level I		57.00	0.002141	.8267	467019431.70
1212306031	Inductor	FB17, FB18, FB42	Telcordia Issue 1	Level I		3.00	0.002141	.0435	467019431.70
1211102269	Inductor	FB55	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
121110010Z	Inductor	FB59, FB60	Telcordia Issue 1	Level I		2.00	0.002141	.0290	467019431.70
121110100F	Inductor	FB57, FB58	Telcordia Issue 1	Level I		2.00	0.081367	1.1022	12289985.04
1211102770	Inductor	FB54	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
121231206E	Inductor	FB7	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
121230603Z	Inductor	FB1, FB15, FB3, FB39	Telcordia Issue 1	Level I		4.00	0.002141	.0580	467019431.70
121230805X	Inductor	FB12, FB13, FB16, FB37, FB38, FB40, FB49, FB50, FB53, FB56, FB61	Telcordia Issue 1	Level I		11.00	0.002141	.1595	467019431.70
1212306030	Inductor	FB10, FB14, FB34, FB5, FB8	Telcordia Issue 1	Level I		5.00	0.002141	.0725	467019431.70
1752001601	Miscellaneous	FS4	Telcordia Issue 1	Level I		1.00	0.003000	.0203	333333333.33
1752310000	Miscellaneous	FS1, FS2, FS3, FS5, FS6	Telcordia Issue 1	Level I		5.00	0.003000	.1016	333333333.33
1651612992	Connection	CPU1	Telcordia Issue 1	Level I		1.00	0.000976	.0066	1024091214.18
121110010P	Inductor	L6	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
1211105673	Inductor	L1	Telcordia Issue 1	Level I		1.00	0.081367	.5511	12289985.04
1211000180	Inductor	L3	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
1211000180	Inductor	L5	Telcordia Issue 1	Level I	10.40	1.00	0.002617	.0177	382079802.04
1310222210	Semiconductor	Q10, Q15, Q18, Q19, Q22, Q26, Q3, Q4, Q40, Q41, Q5, Q50, Q53, Q58, Q65, Q67, Q76, Q77, Q78, Q83, Q84, Q85	Telcordia Issue 1	Level I		22.00	0.021953	3.2712	45551211.73
1311390610	Semiconductor	Q43, Q69	Telcordia Issue 1	Level I		2.00	0.021953	.2974	45551211.73

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105A700139	Resistor	R143,R146,R17,R189, R215,R216,R24,R25, R27,R274,R287,R363, R393,R408,R429, R434,R449,R459, R519,R526,R545,R6, R607,R650,R654,R73, R90	Telcordia Issue 1	Level I		27.00	0.002141	.3916	467019431.70
105A515009	Resistor	R54,R558,R576,R582, R660,R661,R662	Telcordia Issue 1	Level I		7.00	0.002141	.1015	467019431.70
1050539264	Resistor	R55	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A768009	Resistor	R462,R51	Telcordia Issue 1	Level I		2.00	0.002141	.0290	467019431.70
105A527469	Resistor	R53	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A708229	Resistor	R100,R117,R144, R149,R15,R153,R155, R22,R225,R237,R255, R259,R26,R350,R362, R374,R399,R402, R413,R427,R428, R435,R437,R451, R453,R498,R520, R531,R612,R640, R647,R676,R677, R678,R679,R680, R681,R682,R683, R684,R685,R686,	Telcordia Issue 1	Level I		60.00	0.002141	.8702	467019431.70
1050524904	Resistor	R579	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A710009	Resistor	R167,R171,R315, R326,R412,R418, R420,R424	Telcordia Issue 1	Level I		8.00	0.002141	.1160	467019431.70
105A513009	Resistor	R463	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
1050557664	Resistor	R250,R577	Telcordia Issue 1	Level I		2.00	0.002141	.0290	467019431.70
105A501323	Resistor	R445	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A557603	Resistor	R446	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A530103	Resistor	R281	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A516563	Resistor	R221	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A500139	Resistor	R1,R191,R2,R386, R387,R388,R389, R390,R391,R395, R398,R491,R505, R532,R544,R554, R619,R71,R78	Telcordia Issue 1	Level I		19.00	0.002141	.2756	467019431.70
105A580663	Resistor	R543,R556,R561	Telcordia Issue 1	Level I		3.00	0.002141	.0435	467019431.70
105A524903	Resistor	R425,R559	Telcordia Issue 1	Level I		2.00	0.002141	.0290	467019431.70

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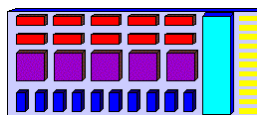


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File Name FSB-G41H.RPJ
Time 13:59
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MTBF 67,731

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A500133	Resistor	R123,R139,R140, R142,R207,R208, R211,R219,R236, R249,R296,R300, R302,R323,R382, R546,R551,R555, R565,R574,R604, R605,R635,R646,R66, R671,R673,R82	Telcordia Issue 1	Level I		28.00	0.002141	.4061	467019431.70
105A575003	Resistor	R145	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A503300	Resistor	R148,R161,R165, R169,R172,R283, R284,R366,R618	Telcordia Issue 1	Level I		9.00	0.002141	.1305	467019431.70
105A704723	Resistor	R11,R273,R307,R324, R335,R355,R373, R392,R718	Telcordia Issue 1	Level I		9.00	0.002141	.1305	467019431.70
105A510213	Resistor	R248	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A502200	Resistor	R330,R344,R553, R652,R9	Telcordia Issue 1	Level I		5.00	0.002141	.0725	467019431.70
105A540263	Resistor	R247	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A539263	Resistor	R282	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A700103	Resistor	R122,R245,R246, R495,R571,R641, R706,R707,R708, R709,R710,R711, R713	Telcordia Issue 1	Level I		13.00	0.002141	.1885	467019431.70
105A518233	Resistor	R318	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A510033	Resistor	R334	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A708223	Resistor	R102,R103,R108, R109,R110,R111, R113,R114,R163, R180,R230,R231, R232,R242,R371, R461,R492,R534, R537,R539,R540, R581,R586,R587, R589,R598,R670, R672,R699,R701, R725,R726,R727, R728,R729,R730, R750,RS1(1-2)	Telcordia Issue 1	Level I		38.00	0.002141	.5511	467019431.70
105A701033	Resistor	R126,R21,R227,R228, R229,R294,R301, R409,R48,R533,R669, R743	Telcordia Issue 1	Level I		12.00	0.002141	.1740	467019431.70
105A533003	Resistor	R3,R367,R4,R7,R700, R8	Telcordia Issue 1	Level I		6.00	0.002141	.0870	467019431.70

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105A524963	Resistor	R651	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A501053	Resistor	R592	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A510053	Resistor	R137	Telcordia Issue 1	Level I		1.00	0.012847	.0870	77836571.95
105A502033	Resistor	R174	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A702229	Resistor	R164,R166,R170, R176,R314,R431	Telcordia Issue 1	Level I		6.00	0.002141	.0870	467019431.70
1050504724	Resistor	R222,R489,R490, R664	Telcordia Issue 1	Level I		4.00	0.002141	.0580	467019431.70
105A701039	Resistor	R16,R177,R178,R179, R19,R341,R354,R394, R397,R414,R487, R496,R575,R648, R712	Telcordia Issue 1	Level I		15.00	0.002141	.2175	467019431.70
105A703309	Resistor	R154,R184,R185, R186,R187,R192, R193,R194,R195, R196,R197,R199, R200,R202,R203, R206,R218,R243, R256,R257,R258, R261,R264,R265, R266,R267,R268, R269,R270,R271, R290,R291,R292, R293	Telcordia Issue 1	Level I		34.00	0.002141	.4931	467019431.70
105A501503	Resistor	R630	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A704739	Resistor	R209,R289	Telcordia Issue 1	Level I		2.00	0.002141	.0290	467019431.70
1050703334	Resistor	R213,R288	Telcordia Issue 1	Level I		2.00	0.002141	.0290	467019431.70
105A549913	Resistor	R101,R279	Telcordia Issue 1	Level I		2.00	0.002141	.0290	467019431.70
1059704703	Resistor	R212,R214,R547, R549,R572,R573, R610,R611,R633, R634	Telcordia Issue 1	Level I		10.00	0.002141	.1450	467019431.70
105A715003	Resistor	R104,R105,R488, R620,R714,R715	Telcordia Issue 1	Level I		6.00	0.002141	.0870	467019431.70
1050700002	Resistor	R141,R210	Telcordia Issue 1	Level I		2.00	0.002141	.0290	467019431.70
1050505134	Resistor	R18,R5	Telcordia Issue 1	Level I		2.00	0.002141	.0290	467019431.70
105A547003	Resistor	R372,R447,R448	Telcordia Issue 1	Level I		3.00	0.002141	.0435	467019431.70
105A705123	Resistor	R332,R339	Telcordia Issue 1	Level I		2.00	0.002141	.0290	467019431.70
105A702223	Resistor	R308,R322,R340	Telcordia Issue 1	Level I		3.00	0.002141	.0435	467019431.70
105A703323	Resistor	R337,R593,R606	Telcordia Issue 1	Level I		3.00	0.002141	.0435	467019431.70
105A701533	Resistor	R20,R336,R410,R742	Telcordia Issue 1	Level I		4.00	0.002141	.0580	467019431.70
1050506224	Resistor	R304,R719	Telcordia Issue 1	Level I		2.00	0.002141	.0290	467019431.70

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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1050505124	Resistor	R306,R316	Telcordia Issue 1	Level I		2.00	0.002141	.0290	467019431.70
105A703329	Resistor	R310	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A501539	Resistor	R312,R34,R47	Telcordia Issue 1	Level I		3.00	0.002141	.0435	467019431.70
105A768003	Resistor	R79,R80,R81	Telcordia Issue 1	Level I		3.00	0.002141	.0435	467019431.70
105A702433	Resistor	R588	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A501033	Resistor	R595,R596,R597	Telcordia Issue 1	Level I		3.00	0.002141	.0435	467019431.70
1059710003	Resistor	R369,R381,R494,R76	Telcordia Issue 1	Level I		4.00	0.002141	.0580	467019431.70
105A702263	Resistor	R407,R411,R421, R439,R440,R501, R502,R521,R525, R570,R584,R585, R603,R616,R617, R639,R717	Telcordia Issue 1	Level I		17.00	0.002141	.2465	467019431.70
105A502039	Resistor	R406,R433,R493,R77	Telcordia Issue 1	Level I		4.00	0.002141	.0580	467019431.70
105A524919	Resistor	R436	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
1050520004	Resistor	R415	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A500239	Resistor	R438	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
1050502734	Resistor	R404	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
1050551004	Resistor	R351	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A511513	Resistor	R516	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A564913	Resistor	R64	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A502823	Resistor	R417	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A516913	Resistor	R67	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
1050502234	Resistor	R364	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
14S4824100	Integrated Circuit	U12	Telcordia Issue 1	Level I	17.50	1.00	0.059340	.4019	16852080.17
14S3917900	Integrated Circuit	U22	Telcordia Issue 1	Level I		1.00	0.047918	.3246	20869103.72
14S428010A	Integrated Circuit	U13	Telcordia Issue 1	Level I	19.50	1.00	0.065986	.4469	15154652.61
14S3950500	Integrated Circuit	U16	Telcordia Issue 1	Level I	18.90	1.00	0.180291	1.2211	5546598.71
14S3508100	Integrated Circuit	U24	Telcordia Issue 1	Level I		1.00	0.047918	.3246	20869103.72
14S4825740	Integrated Circuit	U17,U5	Telcordia Issue 1	Level I		2.00	0.022042	.2986	45368398.98
14S4021301	Integrated Circuit	U1,U3	Telcordia Issue 1	Level I		2.00	0.047918	.6491	20869103.72
14S4048502	Integrated Circuit	U26,U28	Telcordia Issue 1	Level I		2.00	0.047918	.6491	20869103.72
14S5A01400	Integrated Circuit	U33	Telcordia Issue 1	Level I		1.00	0.047918	.3246	20869103.72
14S5812502	Integrated Circuit	U31	Telcordia Issue 1	Level I		1.00	0.022042	.1493	45368398.98
14S5A12506	Integrated Circuit	U2	Telcordia Issue 1	Level I		1.00	0.022042	.1493	45368398.98
1305099140	Semiconductor	D17,D18,U10,U11, U37,U8	Telcordia Issue 1	Level I		6.00	0.073178	2.9738	13665363.52
1305099140	Semiconductor	U36	Telcordia Issue 1	Level I	25.40	1.00	0.145228	.9836	6885736.80
14S4871800	Integrated Circuit	U7	Telcordia Issue 1	Level I		1.00	0.022042	.1493	45368398.98

AAEON Reliability Prediction Report

Part Number 9697G41H03-D
Reference Des
Date 02. 18, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 22.10



Description Top-level assembly
File Name FSB-G41H.RPJ
Time 13:59
Failure Rate 14.764276
MTBF 67,731

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S3128421	Integrated Circuit	U32	Telcordia Issue 1	Level I		1.00	0.047918	.3246	20869103.72
14S3633400	Integrated Circuit	U27	Telcordia Issue 1	Level I		1.00	0.047918	.3246	20869103.72
14S9662200	Integrated Circuit	U30,U38	Telcordia Issue 1	Level I		2.00	0.047918	.6491	20869103.72
14S4661400	Integrated Circuit	U40	Telcordia Issue 1	Level I	24.20	1.00	0.254167	1.7215	3934417.10
14S2750100	Integrated Circuit	U23	Telcordia Issue 1	Level I		1.00	0.047918	.3246	20869103.72
14S4654500	Integrated Circuit	U29	Telcordia Issue 1	Level I		1.00	0.047918	.3246	20869103.72
14S4654500	Integrated Circuit	U35	Telcordia Issue 1	Level I	28.20	1.00	0.326923	2.2143	3058828.73
1314108412	Integrated Circuit	U19	Telcordia Issue 1	Level I	13.90	1.00	0.128997	.8737	7752127.40
1314533610	Integrated Circuit	U25	Telcordia Issue 1	Level I	10.40	1.00	0.101384	.6867	9863443.15
1314533610	Integrated Circuit	U34	Telcordia Issue 1	Level I		1.00	0.047918	.3246	20869103.72
14S1035801	Integrated Circuit	U4	Telcordia Issue 1	Level I		1.00	0.047918	.3246	20869103.72
14S5A00702	Integrated Circuit	U39,U41	Telcordia Issue 1	Level I		2.00	0.047918	.6491	20869103.72
123131435J	Miscellaneous	X1	Telcordia Issue 1	Level I		1.00	0.150000	1.0160	6666666.67
1231332721	Miscellaneous	Y2	Telcordia Issue 1	Level I		1.00	0.150000	1.0160	6666666.67
123132505D	Miscellaneous	Y1,Y3	Telcordia Issue 1	Level I		2.00	0.150000	2.0319	6666666.67
1214309000	Inductor	CM1,CM2,CM3,CM4,CM5,CM6,CM7	Telcordia Issue 1	Level I		7.00	0.002141	.1015	467019431.70
1129710390	Capacitor	C167,C199,C20,C22	Telcordia Issue 1	Level I		4.00	0.004282	.1160	233509715.85
1124510280	Capacitor	C146,C148,C151, C177,C198,C24	Telcordia Issue 1	Level I		6.00	0.004282	.1740	233509715.85
11A4439080	Capacitor	C236	Telcordia Issue 1	Level I		1.00	0.004282	.0290	233509715.85
1124522280	Capacitor	C256,C257	Telcordia Issue 1	Level I		2.00	0.004282	.0580	233509715.85
121230603S	Inductor	FB2,FB27,FB4,FB64	Telcordia Issue 1	Level I		4.00	0.002141	.0580	467019431.70
121230603C	Inductor	FB19,FB20,FB21, FB22	Telcordia Issue 1	Level I		4.00	0.002141	.0580	467019431.70
1304101340	Semiconductor	LED1,LED2	Telcordia Issue 1	Level I		2.00	0.003731	.0505	268033938.77
1211101569	Inductor	L2	Telcordia Issue 1	Level I		1.00	0.081367	.5511	12289985.04
121110100P	Inductor	L10,L13,L14	Telcordia Issue 1	Level I		3.00	0.081367	1.6533	12289985.04
1050510034	Resistor	R28	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A549963	Resistor	R220,R244,R600	Telcordia Issue 1	Level I		3.00	0.002141	.0435	467019431.70
105A536003	Resistor	R376,R378,R384, R385	Telcordia Issue 1	Level I		4.00	0.002141	.0580	467019431.70
1050507524	Resistor	R377,R379,R380, R383	Telcordia Issue 1	Level I		4.00	0.002141	.0580	467019431.70
165300420L	Connection	CN4	Telcordia Issue 1	Level I		1.00	0.003906	.0265	256022803.55
1189610189	Capacitor	EC30,EC31,EC32,EC43,EC44,EC45, EC46	Telcordia Issue 1	Level I		7.00	0.004282	.2030	233509715.85
1310390410	Semiconductor	Q29,Q30,Q54,Q55,Q56,Q57,Q63,Q64	Telcordia Issue 1	Level I		8.00	0.021953	1.1895	45551211.73
1050501224	Resistor	R70	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A701059	Resistor	R152	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70

AAEON Reliability Prediction Report

Part Number 9697G41H03-D
Reference Des
Date 02. 18, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 22.10



Description Top-level assembly
File Name FSB-G41H.RPJ
Time 13:59
Failure Rate 14.764276
MTBF 67,731

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1050502204	Resistor	R262,R263,R325, R333	Telcordia Issue 1	Level I		4.00	0.002141	.0580	467019431.70
105A510003	Resistor	R280	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
1050501004	Resistor	R36,R365,R560	Telcordia Issue 1	Level I		3.00	0.002141	.0435	467019431.70
105A505109	Resistor	R40,R41,R42,R43, R44,R466,R467,R471, R472,R550,R59,R644, R645	Telcordia Issue 1	Level I		13.00	0.002141	.1885	467019431.70
105A515003	Resistor	R327	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A519613	Resistor	R504	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A542213	Resistor	R507	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A549919	Resistor	R517,R518,R621, R636	Telcordia Issue 1	Level I		4.00	0.002141	.0580	467019431.70
105A516519	Resistor	R552	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A739033	Resistor	R594	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
14S5A01430	Integrated Circuit	U18	Telcordia Issue 1	Level I		1.00	0.022042	.1493	45368398.98
14S9080900	Integrated Circuit	U21	Telcordia Issue 1	Level I		1.00	0.022042	.1493	45368398.98
1050524034	Resistor	R396	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
1311138610	Semiconductor	Q17,Q31,Q32,Q75	Telcordia Issue 1	Level I		4.00	0.021953	.5948	45551211.73
105A706209	Resistor	R38,R458,R473,R474, R475	Telcordia Issue 1	Level I		5.00	0.002141	.0725	467019431.70
105A502723	Resistor	R499	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A538313	Resistor	R32	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A524303	Resistor	R328	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A518213	Resistor	R432	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A547503	Resistor	R578	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A502223	Resistor	R217,R253	Telcordia Issue 1	Level I		2.00	0.002141	.0290	467019431.70
105A522663	Resistor	R188	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
1124415080	Capacitor	C46,C57	Telcordia Issue 1	Level I		2.00	0.004282	.0580	233509715.85
1315700217	Semiconductor	Q27,Q28	Telcordia Issue 1	Level I		2.00	0.073178	.9913	13665363.52
165392521H	Connection	CFD1	Telcordia Issue 1	Level I		1.00	0.024412	.1653	40963648.57
1121610061	Capacitor	C110	Telcordia Issue 1	Level I		1.00	0.004282	.0290	233509715.85
1050502224	Resistor	R422	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A502839	Resistor	R31	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
105A534823	Resistor	R500	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70
11C4568280	Capacitor	BC104	Telcordia Issue 1	Level I		1.00	0.004282	.0290	233509715.85
1301005444	Semiconductor	D15,D16	Telcordia Issue 1	Level I		2.00	0.021953	.2974	45551211.73
1315344311	Integrated Circuit	U20	Telcordia Issue 1	Level I		1.00	0.047918	.3246	20869103.72
14S6308002	Integrated Circuit	U14,U9	Telcordia Issue 1	Level I		2.00	0.028963	.3923	34527118.34
1189622189	Capacitor	EC10,EC28	Telcordia Issue 1	Level I		2.00	0.004282	.0580	233509715.85
1050526764	Resistor	R563	Telcordia Issue 1	Level I		1.00	0.002141	.0145	467019431.70

