

FSB-945G

Reliability Prediction Report

(MTBF)

Report NO : 09I070010

07-03-2009

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** TF-FSB-945G-A10-G2

II . **Prediction Date:** Jul. 3rd, 2009

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 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-945G-A10-G2:
Failure Rate: 16.421202 ppm
MTBF: 60,897 Hours

AAEON Reliability Prediction Report

Part Number 9697B94502-D
Reference Des
Date 07. 3, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name FSB-945G.RPJ
Time 2:30 下午
Failure Rate 16.421202
MTBF 60,897

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-FSB-945G-A10-G2	9697B94502-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	16.42	60896.88

AAEON Reliability Prediction Report

Part Number 9697B94502-D
Reference Des
Date 07. 3, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name FSB-945G.RPJ
Time 2:30 下午
Failure Rate 16.421202
MTBF 60,897

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1124701780	Capacitor	C120,C13,C146,C164, C182,C183,C185,C19, C31,C34,C37,C41, C48,C73,C80,C81, C82,C84	Telcordia Issue 1	Level I		18.00	0.004535	.4971	220487045.01
1124510180	Capacitor	C30	Telcordia Issue 1	Level I		1.00	0.004535	.0276	220487045.01
1121701080	Capacitor	C100,C102,C119, C121,C123,C133, C155,C161,C165, C169,C173,C179, C180,C181,C188, C199,C207,C208,C32, C35,C38,C40,C42, C44,C46,C52,C57, C59,C60,C61,C62, C63,C65,C70,C72, C75,C76,C99	Telcordia Issue 1	Level I		38.00	0.004535	1.0495	220487045.01
1124522180	Capacitor	C186,C33,C36,C39, C43	Telcordia Issue 1	Level I		5.00	0.004535	.1381	220487045.01
1124510280	Capacitor	C114,C118,C122, C153,C47,C58,C78, C96	Telcordia Issue 1	Level I		8.00	0.005466	.2663	182961702.19
1129710390	Capacitor	C152,C156,C50,C51, C88,C89,C90	Telcordia Issue 1	Level I		7.00	0.004535	.1933	220487045.01
1124527080	Capacitor	C85,C86	Telcordia Issue 1	Level I		2.00	0.005466	.0666	182961702.19
11A4416080	Capacitor	C55,C56	Telcordia Issue 1	Level I		2.00	0.004535	.0552	220487045.01
1124433680	Capacitor	C157,C160,C163,C64, C66,C67	Telcordia Issue 1	Level I		6.00	0.004535	.1657	220487045.01
1122722780	Capacitor	C68	Telcordia Issue 1	Level I		1.00	0.004535	.0276	220487045.01
1124522080	Capacitor	C167,C171,C71,C79	Telcordia Issue 1	Level I		4.00	0.005466	.1331	182961702.19
1124522280	Capacitor	C74	Telcordia Issue 1	Level I		1.00	0.004535	.0276	220487045.01
1124527180	Capacitor	C95	Telcordia Issue 1	Level I		1.00	0.005466	.0333	182961702.19
1124547180	Capacitor	C104	Telcordia Issue 1	Level I		1.00	0.005466	.0333	182961702.19
1121733380	Capacitor	C107	Telcordia Issue 1	Level I		1.00	0.004535	.0276	220487045.01
1124515880	Capacitor	C108	Telcordia Issue 1	Level I		1.00	0.004535	.0276	220487045.01
1124547080	Capacitor	C109,C110,C170, C172,C202,C203, C204,C206	Telcordia Issue 1	Level I		8.00	0.004535	.2210	220487045.01
1124433080	Capacitor	C116,C205	Telcordia Issue 1	Level I		2.00	0.004535	.0552	220487045.01
1124412080	Capacitor	C134	Telcordia Issue 1	Level I		1.00	0.005466	.0333	182961702.19
1129510060	Capacitor	C135,TC10,TC11, TC12,TC13,TC14, TC15,TC16,TC17, TC18,TC20,TC21, TC22,TC5,TC6,TC7, TC8,TC9	Telcordia Issue 1	Level I		18.00	0.005466	.5991	182961702.19
1121722650	Capacitor	C136,C137,C138, C139,C140,C141, C151	Telcordia Issue 1	Level I		7.00	0.005466	.2330	182961702.19

AAEON Reliability Prediction Report

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Temp. (°C) 25.00

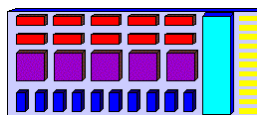


Description Top-level assembly
File Name FSB-945G.RPJ
Time 2:30 下午
Failure Rate 16.421202
MTBF 60,897

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1129710090	Capacitor	C174,C175,C176, C177,C178,C191, C192,C193,C194, C195,C197,C198	Telcordia Issue 1	Level I		12.00	0.004535	.3314	220487045.01
1189647080	Capacitor	C200	Telcordia Issue 1	Level I		1.00	0.004535	.0276	220487045.01
1124522880	Capacitor	C201	Telcordia Issue 1	Level I		1.00	0.005466	.0333	182961702.19
1300283540	Semiconductor	DD2	Telcordia Issue 1	Level I		1.00	0.023881	.1454	41874327.58
1301005440	Semiconductor	DD3,DD4	Telcordia Issue 1	Level I		2.00	0.023881	.2909	41874327.58
1301003240	Semiconductor	D1	Telcordia Issue 1	Level I		1.00	0.023881	.1454	41874327.58
1300414843	Semiconductor	D2,D3,D4	Telcordia Issue 1	Level I		3.00	0.023881	.4363	41874327.58
1300581940	Semiconductor	D5	Telcordia Issue 1	Level I		1.00	0.079603	.4848	12562298.27
1305099140	Semiconductor	D6,D7	Telcordia Issue 1	Level I		2.00	0.079603	.9695	12562298.27
1300001440	Semiconductor	D8,D9	Telcordia Issue 1	Level I		2.00	0.023881	.2909	41874327.58
1212306030	Inductor	FB1,FB11,FB14,FB15, FB18,FB19,FB2,FB26, FB27,FB28,FB29,FB3, FB30,FB32,FB4,FB6	Telcordia Issue 1	Level I		16.00	0.002268	.2210	440974090.03
1212308054	Inductor	FB17,FB33,FB5	Telcordia Issue 1	Level I		3.00	0.002268	.0414	440974090.03
121230603D	Inductor	FB10,FB12,FB13, FB16,FB7,FB8,FB9	Telcordia Issue 1	Level I		7.00	0.002268	.0967	440974090.03
1212306031	Inductor	FB20,FB21	Telcordia Issue 1	Level I		2.00	0.002268	.0276	440974090.03
121230603C	Inductor	FB22,FB23,FB24, FB25	Telcordia Issue 1	Level I		4.00	0.002268	.0552	440974090.03
12123C0007	Inductor	FB31	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
121110010F	Inductor	L15,L16,L17	Telcordia Issue 1	Level I		3.00	0.086173	1.5743	11604581.32
1211104760	Inductor	L20,L21,L22	Telcordia Issue 1	Level I		3.00	0.002268	.0414	440974090.03
1752310000	Miscellaneous	P1,P2,P3,P4,P5,P6	Telcordia Issue 1	Level I		6.00	0.003000	.1096	33333333.33
1310222210	Semiconductor	Q1,Q2,Q29,Q30	Telcordia Issue 1	Level I		4.00	0.023881	.5817	41874327.58
1310390410	Semiconductor	Q3,Q31,Q32,Q33,Q34, Q35,Q36,Q40,Q54	Telcordia Issue 1	Level I		9.00	0.023881	1.3088	41874327.58
1315700211	Semiconductor	Q12,Q13,Q14,Q15, Q24,Q39,Q4,Q42,Q46, Q47,Q48,Q5,Q9	Telcordia Issue 1	Level I		13.00	0.079603	6.3019	12562298.27
1315889612	Semiconductor	Q23,Q25	Telcordia Issue 1	Level I		2.00	0.079603	.9695	12562298.27
1315889612	Semiconductor	Q38	Telcordia Issue 1	Level I	15.20	1.00	0.120626	.7346	8290055.10
1315889612	Semiconductor	Q10	Telcordia Issue 1	Level I	25.80	1.00	0.157505	.9592	6348988.07
1315889612	Semiconductor	Q6	Telcordia Issue 1	Level I	27.10	1.00	0.162549	.9899	6151998.59
1315889612	Semiconductor	Q27	Telcordia Issue 1	Level I	32.10	1.00	0.183074	1.1149	5462277.11
1315889612	Semiconductor	Q26	Telcordia Issue 1	Level I	33.90	1.00	0.190914	1.1626	5237973.53

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File Name FSB-945G.RPJ
Time 2:30 下午
Failure Rate 16.421202
MTBF 60,897

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1315889612	Semiconductor	Q21	Telcordia Issue 1	Level I	39.30	1.00	0.215924	1.3149	4631250.22
1315889612	Semiconductor	Q22	Telcordia Issue 1	Level I	34.80	1.00	0.194925	1.1870	5130172.80
1315889612	Semiconductor	Q19	Telcordia Issue 1	Level I	29.90	1.00	0.173819	1.0585	5753105.83
1315889612	Semiconductor	Q18	Telcordia Issue 1	Level I	22.70	1.00	0.145951	.8888	6851625.94
1315889612	Semiconductor	Q7	Telcordia Issue 1	Level I	30.90	1.00	0.177982	1.0839	5618555.81
1315889612	Semiconductor	Q8	Telcordia Issue 1	Level I	41.10	1.00	0.224773	1.3688	4448924.26
1315889612	Semiconductor	Q17	Telcordia Issue 1	Level I	26.50	1.00	0.160206	.9756	6241949.58
1315888010	Semiconductor	Q37	Telcordia Issue 1	Level I	11.40	1.00	0.109138	.6646	9162680.98
1315888010	Semiconductor	Q57	Telcordia Issue 1	Level I		1.00	0.079603	.4848	12562298.27
1315888010	Semiconductor	Q58	Telcordia Issue 1	Level I	44.10	1.00	0.240109	1.4622	4164767.80
1315888010	Semiconductor	Q55	Telcordia Issue 1	Level I	26.00	1.00	0.158274	.9638	6318172.26
1315888010	Semiconductor	Q49	Telcordia Issue 1	Level I	37.90	1.00	0.209221	1.2741	4779632.46
1315888010	Semiconductor	Q41	Telcordia Issue 1	Level I	24.10	1.00	0.151088	.9201	6618678.91
1315888010	Semiconductor	Q11	Telcordia Issue 1	Level I	26.90	1.00	0.161765	.9851	6181800.09
1311006910	Semiconductor	Q16,Q20,Q44,Q53	Telcordia Issue 1	Level I		4.00	0.023881	.5817	41874327.58
1311390610	Semiconductor	Q28,Q43,Q52	Telcordia Issue 1	Level I		3.00	0.023881	.4363	41874327.58
1315344310	Integrated Circuit	Q56	Telcordia Issue 1	Level I		1.00	0.059366	.3615	16844654.92
1540782280	Resistor	RP1,RP16,RP19,RP2,RP20,RP21,RP22,RP3,RP4,RP6,RP7,RP8, RP9	Telcordia Issue 1	Level I		13.00	0.006246	.4945	160102772.00
1540747282	Resistor	RP17,RP18,RP23, RP24,RP5	Telcordia Issue 1	Level I		5.00	0.006246	.1902	160102772.00
1540733082	Resistor	RP10,RP11,RP12, RP13	Telcordia Issue 1	Level I		4.00	0.006246	.1521	160102772.00
1540701380	Resistor	RP14	Telcordia Issue 1	Level I		1.00	0.006246	.0380	160102772.00
106B701032	Resistor	RT1,RT3,RT4	Telcordia Issue 1	Level I		3.00	0.011379	.2079	87878027.07
105A733003	Resistor	R1,R13,R2,R289,R299,R351,R353,R701,R703,R704	Telcordia Issue 1	Level I		10.00	0.002268	.1381	440974090.03
105A756033	Resistor	R23,R3,R38,R41	Telcordia Issue 1	Level I		4.00	0.002268	.0552	440974090.03
105A513003	Resistor	R4,R6,R72	Telcordia Issue 1	Level I		3.00	0.002268	.0414	440974090.03
105A702223	Resistor	R119,R122,R124, R388,R5,R645	Telcordia Issue 1	Level I		6.00	0.002268	.0829	440974090.03
105A500133	Resistor	R12,R121,R15,R157,R163,R236,R302,R303,R305,R34,R35,R443,R563,R693,R7	Telcordia Issue 1	Level I		15.00	0.002268	.2071	440974090.03
105A747033	Resistor	R28,R33,R43,R8	Telcordia Issue 1	Level I		4.00	0.002268	.0552	440974090.03

AAEON Reliability Prediction Report

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



Description Top-level assembly
File Name FSB-945G.RPJ
Time 2:30 下午
Failure Rate 16.421202
MTBF 60,897

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A700009	Resistor	C124,C125,C126, C127,C128,C129, C130,C131,C142, C143,C144,C145, C147,C148,C149, C150,R104,R162, R177,R212,R22,R24, R245,R257,R26,R262, R29,R30,R32,R36, R37,R39,R40,R42, R44,R441,R457,R470, R473,R485,R489, R502,R513,R515,	Telcordia Issue 1	Level I		49.00	0.002268	.6767	440974090.03
105A701033	Resistor	R136,R137,R138, R139,R141,R153, R171,R265,R342, R347,R350,R354, R356,R384,R385, R399,R402,R462, R464,R47,R508,R536, R539,R558,R647, R651,R652,R653, R654,R655,R659, R677,R696,RS4(1-2), RS5(1-2)	Telcordia Issue 1	Level I		35.00	0.002268	.4833	440974090.03
105A505123	Resistor	R48	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A510003	Resistor	R286,R288,R348, R405,R50	Telcordia Issue 1	Level I		5.00	0.002268	.0690	440974090.03
105A501033	Resistor	R51	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A512403	Resistor	R52,R55,R58,R661, R83	Telcordia Issue 1	Level I		5.00	0.002268	.0690	440974090.03
105A521003	Resistor	R53,R56,R59,R662, R84	Telcordia Issue 1	Level I		5.00	0.002268	.0690	440974090.03
105A701003	Resistor	R54,R564,R57,R574, R60,R61,R614,R665	Telcordia Issue 1	Level I		8.00	0.002268	.1105	440974090.03
105A768003	Resistor	R62,R64,R66,R67, R68,R69,R70,R71	Telcordia Issue 1	Level I		8.00	0.002268	.1105	440974090.03
105A501123	Resistor	R63	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A706203	Resistor	R109,R246,R408, R411,R413,R415, R416,R417,R422, R423,R424,R432, R436,R438,R439, R440,R518,R73,R74, R76,R77,R78,R80, R81	Telcordia Issue 1	Level I		24.00	0.002268	.3314	440974090.03

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Date 07. 3, 2009
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Description Top-level assembly
File Name FSB-945G.RPJ
Time 2:30 下午
Failure Rate 16.421202
MTBF 60,897

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A560463	Resistor	R260,R412,R419, R427,R430,R431, R433,R663,R82	Telcordia Issue 1	Level I		9.00	0.002268	.1243	440974090.03
105A705139	Resistor	R87,R88	Telcordia Issue 1	Level I		2.00	0.002268	.0276	440974090.03
105A549969	Resistor	R106,R107,R115, R120,R587,R588, R589,R590,R591, R592,R593,R594, R595,R596,R681, R682,R683,R684, R685,R686,R687, R688,R689,R690,R89, R92,R96,R98	Telcordia Issue 1	Level I		28.00	0.002268	.3867	440974090.03
1059702261	Resistor	R101,R161,R237, R311,R537,R643, R713,R90	Telcordia Issue 1	Level I		8.00	0.002268	.1105	440974090.03
1050504760	Resistor	R450,R91	Telcordia Issue 1	Level I		2.00	0.002268	.0276	440974090.03
105A703323	Resistor	R95	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A700133	Resistor	R100,R117,R159, R182,R186,R191, R216,R242,R264, R266,R343,R346, R349,R400,R580, R635,R671,R699	Telcordia Issue 1	Level I		18.00	0.002268	.2486	440974090.03
105A702263	Resistor	R103,R105,R158, R243,R312,R445, R514	Telcordia Issue 1	Level I		7.00	0.002268	.0967	440974090.03
105A700103	Resistor	R108,R466,R551, R656,R697	Telcordia Issue 1	Level I		5.00	0.002268	.0690	440974090.03
105A524963	Resistor	R114,R568,R642	Telcordia Issue 1	Level I		3.00	0.002268	.0414	440974090.03
105A504763	Resistor	R116	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A700233	Resistor	R118,R483	Telcordia Issue 1	Level I		2.00	0.002268	.0276	440974090.03
105A505633	Resistor	R135	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A502233	Resistor	R140	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A710053	Resistor	R154,R555	Telcordia Issue 1	Level I		2.00	0.013606	.1657	73495681.67
105A501533	Resistor	R156	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A704729	Resistor	R160,R486,R494, R517,R525,R615	Telcordia Issue 1	Level I		6.00	0.002268	.0829	440974090.03
105A703329	Resistor	R164,R173,R452, R474,R523,R529	Telcordia Issue 1	Level I		6.00	0.002268	.0829	440974090.03
105A515003	Resistor	R169,R174,R179, R578,R585,R586	Telcordia Issue 1	Level I		6.00	0.002268	.0829	440974090.03
105A704709	Resistor	R170,R176,R180	Telcordia Issue 1	Level I		3.00	0.002268	.0414	440974090.03
105A708229	Resistor	R172,R456,R458	Telcordia Issue 1	Level I		3.00	0.002268	.0414	440974090.03
105A549913	Resistor	R184,R249,R526, R602	Telcordia Issue 1	Level I		4.00	0.002268	.0552	440974090.03

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Time 2:30 下午
Failure Rate 16.421202
MTBF 60,897

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1059704703	Resistor	R190,R604,R605, R670	Telcordia Issue 1	Level I		4.00	0.002268	.0552	440974090.03
105A520003	Resistor	R194	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A703309	Resistor	R195,R196,R197, R200,R201,R202, R203,R204,R205, R206,R207,R208, R209,R268,R269, R271,R272,R273, R276,R277,R278, R279,R280,R281, R282,R283,R284, R285,R319,R320, R321,R322,R323, R324,R325,R327, R329,R330,R331,	Telcordia Issue 1	Level I		68.00	0.002268	.9391	440974090.03
105A702209	Resistor	R198,R199,R274, R275	Telcordia Issue 1	Level I		4.00	0.002268	.0552	440974090.03
105A512103	Resistor	R210	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A715003	Resistor	R213,R261,R267	Telcordia Issue 1	Level I		3.00	0.002268	.0414	440974090.03
105A516513	Resistor	R217	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A702733	Resistor	R235	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A525503	Resistor	R238	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A505173	Resistor	R239,R560,R569	Telcordia Issue 1	Level I		3.00	0.002268	.0414	440974090.03
105A584563	Resistor	R247	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A530103	Resistor	R248	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A747009	Resistor	R250,R251,R252, R471,R480	Telcordia Issue 1	Level I		5.00	0.002268	.0690	440974090.03
105A706209	Resistor	R253,R254,R255	Telcordia Issue 1	Level I		3.00	0.002268	.0414	440974090.03
105A530163	Resistor	R259	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A710033	Resistor	R292	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A530003	Resistor	R306	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
1050704304	Resistor	R316,R317,R318, R326,R328,R340, R358,R359,R374, R378,R381,R383	Telcordia Issue 1	Level I		12.00	0.002268	.1657	440974090.03
105A522123	Resistor	R344	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A527413	Resistor	R345	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A512033	Resistor	R389	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A524333	Resistor	R390	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A702233	Resistor	R391	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A703303	Resistor	R394	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03

AAEON Reliability Prediction Report

Part Number 9697B94502-D
Reference Des
Date 07. 3, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

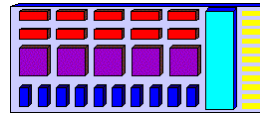


Description Top-level assembly
File Name FSB-945G.RPJ
Time 2:30 下午
Failure Rate 16.421202
MTBF 60,897

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A747003	Resistor	R396	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A527423	Resistor	R404	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A701039	Resistor	R448,R648,R94	Telcordia Issue 1	Level I		3.00	0.002268	.0414	440974090.03
105A702033	Resistor	R461,R582,R678	Telcordia Issue 1	Level I		3.00	0.002268	.0414	440974090.03
105A715009	Resistor	R465,R475,R497, R510	Telcordia Issue 1	Level I		4.00	0.002268	.0552	440974090.03
105A517413	Resistor	R468	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A700139	Resistor	R481,R495,R609, R611	Telcordia Issue 1	Level I		4.00	0.002268	.0552	440974090.03
1059700001	Resistor	R491,R492,R498, R509,R698	Telcordia Issue 1	Level I		5.00	0.002268	.0690	440974090.03
105A501623	Resistor	R493	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A507503	Resistor	R538,R557,R559	Telcordia Issue 1	Level I		3.00	0.002268	.0414	440974090.03
105A701053	Resistor	R540	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A580663	Resistor	R541,R562	Telcordia Issue 1	Level I		2.00	0.002268	.0276	440974090.03
105A733033	Resistor	R553	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A522663	Resistor	R584	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A702229	Resistor	R597,R607	Telcordia Issue 1	Level I		2.00	0.002268	.0276	440974090.03
1050700002	Resistor	R612	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A547503	Resistor	R613	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A703903	Resistor	R649,R650	Telcordia Issue 1	Level I		2.00	0.002268	.0276	440974090.03
105A722003	Resistor	R658	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A516963	Resistor	R666	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
105A720003	Resistor	R680	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
1059500131	Resistor	R700	Telcordia Issue 1	Level I		1.00	0.002268	.0138	440974090.03
1129610051	Capacitor	TC1,TC19,TC2,TC23, TC24,TC25,TC26, TC27,TC28,TC3,TC30, TC31,TC32,TC37, TC38,TC39,TC4,TC40, TC41,TC42,TC43, TC44,TC45,TC47, TC48,TC49,TC50, TC51,TC52,TC53, TC54,TC55,TC56, TC58,TC59,TC60	Telcordia Issue 1	Level I		36.00	0.004535	.9943	220487045.01
1121610060	Capacitor	TC29,TC34,TC36, TC46,TC57,TC61	Telcordia Issue 1	Level I		6.00	0.004535	.1657	220487045.01
14S4632600	Integrated Circuit	U1	Telcordia Issue 1	Level I		1.00	0.059366	.3615	16844654.92
14S5A23200	Integrated Circuit	U2	Telcordia Issue 1	Level I		1.00	0.026183	.1594	38193355.79
14S9661200	Integrated Circuit	U10,U21,U24,U4,U5	Telcordia Issue 1	Level I		5.00	0.059366	1.8076	16844654.92

AAEON Reliability Prediction Report

Part Number 9697B94502-D
Reference Des
Date 07. 3, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name FSB-945G.RPJ
Time 2:30 下午
Failure Rate 16.421202
MTBF 60,897

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S4825730	Integrated Circuit	U6	Telcordia Issue 1	Level I	11.30	1.00	0.049655	.3024	20138844.42
14S4081110	Integrated Circuit	U7	Telcordia Issue 1	Level I		1.00	0.059366	.3615	16844654.92
14S9080900	Integrated Circuit	U36,U9	Telcordia Issue 1	Level I		2.00	0.026183	.3189	38193355.79
14S428010C	Integrated Circuit	U11	Telcordia Issue 1	Level I	27.80	1.00	0.116733	.7109	8566531.68
14S6308001	Integrated Circuit	U12,U37	Telcordia Issue 1	Level I		2.00	0.035882	.4370	27868824.73
14S4294504	Integrated Circuit	U13	Telcordia Issue 1	Level I	44.20	1.00	0.251594	1.5321	3974660.96
14S4362703	Integrated Circuit	U15	Telcordia Issue 1	Level I	11.20	1.00	0.049385	.3007	20249074.37
14S2200900	Integrated Circuit	U16	Telcordia Issue 1	Level I		1.00	0.059366	.3615	16844654.92
1314108412	Integrated Circuit	U17	Telcordia Issue 1	Level I		1.00	0.059366	.3615	16844654.92
14S2303700	Integrated Circuit	U18	Telcordia Issue 1	Level I		1.00	0.059366	.3615	16844654.92
14S4825740	Integrated Circuit	U19	Telcordia Issue 1	Level I		1.00	0.026183	.1594	38193355.79
14S4410100	Integrated Circuit	U20	Telcordia Issue 1	Level I	32.40	1.00	0.145908	.8885	6853620.26
14S4888801	Integrated Circuit	U22	Telcordia Issue 1	Level I	21.70	1.00	0.085984	.5236	11630084.13
1314111713	Integrated Circuit	U23	Telcordia Issue 1	Level I		1.00	0.059366	.3615	16844654.92
14S4048501	Integrated Circuit	U26,U27	Telcordia Issue 1	Level I		2.00	0.059366	.7230	16844654.92
14S5A12503	Integrated Circuit	U28,U29,U30	Telcordia Issue 1	Level I		3.00	0.059366	1.0846	16844654.92
14S5A01400	Integrated Circuit	U31	Telcordia Issue 1	Level I		1.00	0.059366	.3615	16844654.92
14S4653701	Integrated Circuit	U32	Telcordia Issue 1	Level I		1.00	0.059366	.3615	16844654.92
14S3128421	Integrated Circuit	U34	Telcordia Issue 1	Level I		1.00	0.059366	.3615	16844654.92
14S5A01430	Integrated Circuit	U35	Telcordia Issue 1	Level I		1.00	0.026183	.1594	38193355.79
14S2750100	Integrated Circuit	U38	Telcordia Issue 1	Level I		1.00	0.059366	.3615	16844654.92
123131435B	Miscellaneous	Y3	Telcordia Issue 1	Level I		1.00	0.150000	.9135	6666666.67
1129722091	Capacitor	C53,C54	Telcordia Issue 1	Level I		2.00	0.004535	.0552	220487045.01
1189610151	Capacitor	TC62,TC63	Telcordia Issue 1	Level I		2.00	0.004535	.0552	220487045.01
14S4021310	Integrated Circuit	U3	Telcordia Issue 1	Level I		1.00	0.059366	.3615	16844654.92
14S62945F0	Integrated Circuit	U14	Telcordia Issue 1	Level I		1.00	0.026183	.1594	38193355.79
14S6201601	Integrated Circuit		Telcordia Issue 1	Level I		1.00	0.167136	1.0178	5983167.80
1231325058	Miscellaneous	Y1	Telcordia Issue 1	Level I		1.00	0.150000	.9135	6666666.67
1655404020	Connection	ATX1	Telcordia Issue 1	Level I		1.00	0.002276	.0139	439390135.35
1750220326	Connection	BT1	Telcordia Issue 1	Level I		1.00	0.001138	.0069	878780270.71
1759100002	Miscellaneous	BZ1	Telcordia Issue 1	Level I		1.00	0.150000	.9135	6666666.67
1653003100	Connection	CMOS1	Telcordia Issue 1	Level I		1.00	0.001707	.0104	585853513.81
1653300100	Connection	CMOS1(2-3), FP2(5-7)	Telcordia Issue 1	Level I		2.00	0.001138	.0139	878780270.71
1655003022	Connection	CN1	Telcordia Issue 1	Level I		1.00	0.001707	.0104	585853513.81
1653005205	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.005690	.0346	175756054.14
1655005021	Connection	CN5	Telcordia Issue 1	Level I		1.00	0.002845	.0173	351512108.28

AAEON Reliability Prediction Report

Part Number 9697B94502-D
Reference Des
Date 07. 3, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name FSB-945G.RPJ
Time 2:30 下午
Failure Rate 16.421202
MTBF 60,897

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1653205203	Connection	COM1,COM2	Telcordia Issue 1	Level I		2.00	0.005690	.0693	175756054.14
16515C0495	Connection	DIMM1,DIMM2	Telcordia Issue 1	Level I		2.00	0.136553	1.6631	7323168.92
1119622196	Capacitor	EC1,EC13,EC2,EC28,EC34,EC38,EC4,EC43	Telcordia Issue 1	Level I		8.00	0.071121	3.4649	14060484.33
1112633191	Capacitor	EC15,EC22,EC3,EC31, EC47	Telcordia Issue 1	Level I		5.00	0.042673	1.2993	23434140.55
1119647191	Capacitor	EC33,EC35,EC36,EC39,EC40,EC41,EC5, EC6	Telcordia Issue 1	Level I		8.00	0.071121	3.4649	14060484.33
1119610291	Capacitor	EC10,EC11,EC12,EC14,EC16,EC18,EC20,EC24,EC25,EC26,EC7,EC8,EC9	Telcordia Issue 1	Level I		13.00	0.005466	.4327	182961702.19
1169682192	Capacitor	EC17,EC19,EC21,EC23,EC27,EC29,EC30,EC32,EC44, EC45,EC46	Telcordia Issue 1	Level I		11.00	0.005466	.3661	182961702.19
1655004014	Connection	FAN1	Telcordia Issue 1	Level I		1.00	0.001138	.0069	878780270.71
1653217205	Connection	FDD1	Telcordia Issue 1	Level I		1.00	0.019345	.1178	51692957.10
1653004200	Connection	FP1,FP2	Telcordia Issue 1	Level I		2.00	0.004552	.0554	219695067.68
1653302150	Connection	H1,H2	Telcordia Issue 1	Level I		2.00	0.001138	.0139	878780270.71
1653220208	Connection	IDE1	Telcordia Issue 1	Level I		1.00	0.022759	.1386	43939013.54
1653006101	Connection	IR1	Telcordia Issue 1	Level I		1.00	0.003414	.0208	292926756.90
1652510201	Connection	LAN1,LAN2	Telcordia Issue 1	Level I		2.00	0.005690	.0693	175756054.14
1653213203	Connection	LPT1	Telcordia Issue 1	Level I		1.00	0.014793	.0901	67598482.36
1211101161	Inductor	L6	Telcordia Issue 1	Level I		1.00	0.086173	.5248	11604581.32
121110010Y	Inductor	L10,L12,L18,L9	Telcordia Issue 1	Level I		4.00	0.086173	2.0991	11604581.32
1211105674	Inductor	L14	Telcordia Issue 1	Level I	25.40	1.00	0.136317	.8301	7335833.39
1211105674	Inductor	L19	Telcordia Issue 1	Level I	34.50	1.00	0.157945	.9618	6331315.42
1211105674	Inductor	L13	Telcordia Issue 1	Level I	26.40	1.00	0.138597	.8440	7215158.81
1211105674	Inductor	L11	Telcordia Issue 1	Level I	26.20	1.00	0.138139	.8412	7239074.69
1654907002	Connection	SATA1,SATA2,SATA3, SATA4	Telcordia Issue 1	Level I		4.00	0.003983	.0970	251080077.35
1654804100	Connection	USB1	Telcordia Issue 1	Level I		1.00	0.002276	.0139	439390135.35
1653005201	Connection	USB2,USB3,USB4	Telcordia Issue 1	Level I		3.00	0.005690	.1039	175756054.14
1654515308	Connection	VGA1	Telcordia Issue 1	Level I		1.00	0.008535	.0520	117170702.76
175011901H	Miscellaneous	XBT1	Telcordia Issue 1	Level I		1.00	0.900000	5.4807	1111111.11
1231125051	Miscellaneous	Y4	Telcordia Issue 1	Level I		1.00	0.150000	.9135	6666666.67
1231232722	Miscellaneous	Y2	Telcordia Issue 1	Level I		1.00	0.150000	.9135	6666666.67
1169656132	Capacitor	EC37,EC42	Telcordia Issue 1	Level I		2.00	0.005466	.0666	182961702.19
1654606100	Connection	CN4	Telcordia Issue 1	Level I		1.00	0.003414	.0208	292926756.90