

FSB-960H Reliability Prediction Report (MTBF)

Report NO : 07I070003

10-12-2007

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** FSB-960H (9697960H05-DIP)

II . **Prediction Date:** Oct. 12, 2007

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:

- FSB-960H
 - Failure Rate: 16.113017 ppm
 - MTBF: 62,062 Hours

AAEON Reliability Prediction Report

Part Number 9697960H05-DIP
Reference Des
Date 10. 12, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

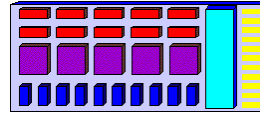


Description Top-level assembly
File Name FSB-960H.RPJ
Time 10:04 AM
Failure Rate 16.113017
MTBF 62,062

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
FSB-960H	9697960H05-DIP	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	16.113017	62,062

AAEON Reliability Prediction Report

Part Number 9697960H05-DIP
Reference Des
Date 10. 12, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name FSB-960H.RPJ
Time 10:04 AM
Failure Rate 16.113017
MTBF 62,062

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1750220320	Connection	BAT1	Bellcore Issue 6	Level I		0.001138	1.00	.0071	0.001138	878780270.71
1653002100	Connection	CN1,CN2,JP1,JP4,JP8	Bellcore Issue 6	Level I		0.001138	5.00	.0353	0.005690	878780270.71
1653003100	Connection	JP2,JP7,JP9	Bellcore Issue 6	Level I		0.001707	3.00	.0318	0.005121	585853513.81
1653004200	Connection	FP1,FP2	Bellcore Issue 6	Level I		0.004552	2.00	.0565	0.009104	219695067.68
1653005201	Connection	USB1-USB3	Bellcore Issue 6	Level I		0.005690	3.00	.1059	0.017069	175756054.14
1653005202	Connection	JP11	Bellcore Issue 6	Level I		0.005690	1.00	.0353	0.005690	175756054.14
1654606200	Connection	KM1	Bellcore Issue 6	Level I		0.003414	1.00	.0212	0.003414	292926756.90
1655005021	Connection	CN4	Bellcore Issue 6	Level I		0.002845	1.00	.0177	0.002845	351512108.28
1750119011	Miscellaneous	BAT1	Bellcore Issue 6	Level I		0.900000	1.00	5.5855	0.900000	1111111.11
1653006101	Connection	IR1	Bellcore Issue 6	Level I		0.003414	1.00	.0212	0.003414	292926756.90
1653213203	Connection	LPT1	Bellcore Issue 6	Level I		0.014793	1.00	.0918	0.014793	67598482.36
1653205203	Connection	COM1,COM2	Bellcore Issue 6	Level I		0.005690	2.00	.0706	0.011379	175756054.14
1653217205	Connection	FDD1	Bellcore Issue 6	Level I		0.019345	1.00	.1201	0.019345	51692957.10
1211102560	Inductor	L12,L25	Bellcore Issue 6	Level I		0.086173	2.00	1.0696	0.172346	11604581.32
1653220208	Connection	IDE1	Bellcore Issue 6	Level I		0.022759	1.00	.1412	0.022759	43939013.54
1655404020	Connection	ATX2	Bellcore Issue 6	Level I		0.002276	1.00	.0141	0.002276	439390135.35
1653302150	Connection	H2,H3	Bellcore Issue 6	Level I		0.001138	2.00	.0141	0.002276	878780270.71
1653900034	Connection	CFD	Bellcore Issue 6	Level I		0.001138	1.00	.0071	0.001138	878780270.71
1654804100	Connection	USB4	Bellcore Issue 6	Level I		0.002276	1.00	.0141	0.002276	439390135.35
1653005205	Connection	CN3	Bellcore Issue 6	Level I		0.005690	1.00	.0353	0.005690	175756054.14
1652510202	Connection	LAN2	Bellcore Issue 6	Level I		0.005690	1.00	.0353	0.005690	175756054.14
1654515308	Connection	VGA1	Bellcore Issue 6	Level I		0.008535	1.00	.0530	0.008535	117170702.76
1652508212	Connection	LAN1	Bellcore Issue 6	Level I		0.004552	1.00	.0282	0.004552	219695067.68
1119647191	Capacitor	EC12	Bellcore Issue 6	Level I		0.071121	1.00	.4414	0.071121	14060484.33
1169656190	Capacitor	EC28,EC56-EC59	Bellcore Issue 6	Level I		0.004535	5.00	.1407	0.022677	220487045.01
1655004014	Connection	CPUFAN1,FAN1	Bellcore Issue 6	Level I		0.002276	2.00	.0282	0.004552	439390135.35
1111610292	Capacitor	EC1,EC2,EC32	Bellcore Issue 6	Level I		0.071121	3.00	1.3242	0.213364	14060484.33
1169656130	Capacitor	EC22	Bellcore Issue 6	Level I		0.004535	1.00	.0281	0.004535	220487045.01
1654907002	Connection	SATA1,SATA2	Bellcore Issue 6	Level I		0.003983	2.00	.0494	0.007966	251080077.35
1181633111	Capacitor	EC3,EC36,EC4,EC5	Bellcore Issue 6	Level I		0.004535	4.00	.1126	0.018142	220487045.01
14S6200404	Integrated Circuit	U11	Bellcore Issue 6	Level I		0.160483	1.00	.9960	0.160483	6231185.16

AAEON Reliability Prediction Report

Part Number 9697960H05-DIP
Reference Des
Date 10. 12, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name FSB-960H.RPJ
Time 10:04 AM
Failure Rate 16.113017
MTBF 62,062

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
16515C0495	Connection	DIMM1,DIMM2	Bellcore Issue 6	Level I		0.136553	2.00	1.6949	0.273106	7323168.92
14S6201601	Integrated Circuit	U40	Bellcore Issue 6	Level I		0.222901	1.00	1.3834	0.222901	4486288.00
1211105674	Inductor	L13,L18,L7,L8	Bellcore Issue 6	Level I		0.086173	4.00	2.1392	0.344691	11604581.32
1059701001	Resistor	R125,R436	Bellcore Issue 6	Level I		0.002268	2.00	.0281	0.004535	440974090.03
105A501033	Resistor	R126,R131,R140,R141,R275,R791	Bellcore Issue 6	Level I		0.002268	6.00	.0844	0.013606	440974090.03
105A700003	Resistor	R11,R117,R133,R14,R145,R147,R-150,R156,R158,R178,R179,R18,R2-0,R205,R21	Bellcore Issue 6	Level I		0.002268	15.00	.2111	0.034016	440974090.03
105A700003	Resistor	R24,R257,R259,R27,R277,R287,R-332,R34,R361,R389,R408,R410,R5-R507,R512	Bellcore Issue 6	Level I		0.002268	15.00	.2111	0.034016	440974090.03
105A700003	Resistor	R513,R517,R552,R554,R567,R572-R582,R588,R607,R647,R667,R711-R729,R731	Bellcore Issue 6	Level I		0.002268	14.00	.1970	0.031748	440974090.03
105A700003	Resistor	R745,R750,R761,R83,R830,R84,R-85,R854,R856,R86,R861-R863,R8-87,R942,R974	Bellcore Issue 6	Level I		0.002268	16.00	.2252	0.036283	440974090.03
105A701003	Resistor	R612,R622,R636,R650,R653,R717-R834	Bellcore Issue 6	Level I		0.002268	7.00	.0985	0.015874	440974090.03
105A701053	Resistor	R662,R909,R940	Bellcore Issue 6	Level I		0.002268	3.00	.0422	0.006803	440974090.03
105A701503	Resistor	R217,R714,R715,R732,R752	Bellcore Issue 6	Level I		0.002268	5.00	.0704	0.011339	440974090.03
105A702203	Resistor	R17,R923,R925,R928,R931	Bellcore Issue 6	Level I		0.002268	5.00	.0704	0.011339	440974090.03
105A702223	Resistor	R203,R571,R675,R683	Bellcore Issue 6	Level I		0.002268	4.00	.0563	0.009071	440974090.03
105A703303	Resistor	R216,R223,R253,R266,R271,R278-R645,R998	Bellcore Issue 6	Level I		0.002268	8.00	.1126	0.018142	440974090.03
105A703323	Resistor	R234,R260,R328,R334,R339,R347-R428,R664,R679	Bellcore Issue 6	Level I		0.002268	9.00	.1267	0.020409	440974090.03
105A704723	Resistor	R115,R124,R155,R168,R411,R413-R421,R425,R427,R432,R468,R474-R475,R477	Bellcore Issue 6	Level I		0.002268	14.00	.1970	0.031748	440974090.03
105A704723	Resistor	R480,R521,R527,R530,R531,R536-R538,R539,R744,R784,R8,R832,R-847,R915,R920	Bellcore Issue 6	Level I		0.002268	15.00	.2111	0.034016	440974090.03
105A707533	Resistor	R80	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
105A708203	Resistor	R924,R929,R930	Bellcore Issue 6	Level I		0.002268	3.00	.0422	0.006803	440974090.03
105A708223	Resistor	R15,R324,R333,R476,R491,R519,-R528,R580,R633,R641,R648,R657-R676,R7,R822,R9	Bellcore Issue 6	Level I		0.002268	16.00	.2252	0.036283	440974090.03

AAEON Reliability Prediction Report

Part Number 9697960H05-DIP
Reference Des
Date 10. 12, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name FSB-960H.RPJ
Time 10:04 AM
Failure Rate 16.113017
MTBF 62,062

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A700133	Resistor	R10,R114,R146,R3,R316,R4,R423- R424,R429,R520,R551,R564,R601- R623,R624	Bellcore Issue 6	Level I		0.002268	15.00	.2111	0.034016	440974090.03
105A700133	Resistor	R681,R685,R716,R74,R740,R749,- R753,R781	Bellcore Issue 6	Level I		0.002268	8.00	.1126	0.018142	440974090.03
105A733003	Resistor	R1,R12,R649,R478,R558,R6,R762	Bellcore Issue 6	Level I		0.002268	7.00	.0985	0.015874	440974090.03
105A701033	Resistor	R123,R13,R154,R164,R166,R176,- R258,R272,R28,R31,R33,R340,R3- 45,R372,R373	Bellcore Issue 6	Level I		0.002268	15.00	.2111	0.034016	440974090.03
105A701033	Resistor	R391,R405,R406,R409,R417,R426- R434,R443,R485,R492,R508,R522- R533-R535	Bellcore Issue 6	Level I		0.002268	15.00	.2111	0.034016	440974090.03
105A701033	Resistor	R553,R555,R556,R565,R566,R568- R570,R573,R584,R585,R618,R621- R626,R649	Bellcore Issue 6	Level I		0.002268	15.00	.2111	0.034016	440974090.03
105A701033	Resistor	R660,R666,R686,R687,R69,R692,- R696,R702,R704,R706,R707,R709- R720,R725	Bellcore Issue 6	Level I		0.002268	14.00	.1970	0.031748	440974090.03
105A701033	Resistor	R728,R76,R78,R79,R916-R918,R9- 22,R993	Bellcore Issue 6	Level I		0.002268	9.00	.1267	0.020409	440974090.03
105A715003	Resistor	R346,R349,R387,R742	Bellcore Issue 6	Level I		0.002268	4.00	.0563	0.009071	440974090.03
105A701533	Resistor	R433,R483,R498,R511,R525	Bellcore Issue 6	Level I		0.002268	5.00	.0704	0.011339	440974090.03
105A747003	Resistor	R481	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
1059700001	Resistor	L33,R418,R502,R506,R788,R793,R- 82	Bellcore Issue 6	Level I		0.002268	7.00	.0985	0.015874	440974090.03
105A710053	Resistor	R369,R529	Bellcore Issue 6	Level I		0.013606	2.00	.1689	0.027212	73495681.67
105A500133	Resistor	R22,R263,R273,R282,R401,R414,- R494,R495,R523,R524,R602,R604- R609,R614	Bellcore Issue 6	Level I		0.002268	14.00	.1970	0.031748	440974090.03
105A500133	Resistor	R802,R835	Bellcore Issue 6	Level I		0.002268	2.00	.0281	0.004535	440974090.03
105A501223	Resistor	R449	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
105A501323	Resistor	R362,R452	Bellcore Issue 6	Level I		0.002268	2.00	.0281	0.004535	440974090.03
105A501523	Resistor	R390	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
105A501533	Resistor	R134,R318,R319,R384	Bellcore Issue 6	Level I		0.002268	4.00	.0563	0.009071	440974090.03
105A502033	Resistor	R276	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
105A510003	Resistor	R393,R394	Bellcore Issue 6	Level I		0.002268	2.00	.0281	0.004535	440974090.03
105A510033	Resistor	R132,R137	Bellcore Issue 6	Level I		0.002268	2.00	.0281	0.004535	440974090.03

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



Description Top-level assembly
File Name FSB-960H.RPJ
Time 10:04 AM
Failure Rate 16.113017
MTBF 62,062

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A511503	Resistor	R136,R397,R634,R638,R651,R669	Bellcore Issue 6	Level I		0.002268	6.00	.0844	0.013606	440974090.03
105A515003	Resistor	R261,R280,R288,R363-R365,R370	Bellcore Issue 6	Level I		0.002268	7.00	.0985	0.015874	440974090.03
105A524913	Resistor	R627	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
105A528713	Resistor	R447	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
105A549913	Resistor	R688	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
105A549963	Resistor	R214,R256,R281,R285,R289,R398-R628,R629,R724,R759	Bellcore Issue 6	Level I		0.002268	10.00	.1407	0.022677	440974090.03
105A561903	Resistor	R610	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
105A702033	Resistor	R120,R65,R661,R806,R821,R823,-R888	Bellcore Issue 6	Level I		0.002268	7.00	.0985	0.015874	440974090.03
105A702233	Resistor	R121,R431	Bellcore Issue 6	Level I		0.002268	2.00	.0281	0.004535	440974090.03
105A704733	Resistor	R119,R75	Bellcore Issue 6	Level I		0.002268	2.00	.0281	0.004535	440974090.03
105A705103	Resistor	R170,R180,R181,R200,R207,R212-R268,R283,R290,R292,R378,R379-R654,R658	Bellcore Issue 6	Level I		0.002268	14.00	.1970	0.031748	440974090.03
105A705103	Resistor	R670-R673,R883,R884,R997	Bellcore Issue 6	Level I		0.002268	7.00	.0985	0.015874	440974090.03
105A706823	Resistor	R441	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
105A747033	Resistor	R64	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
105A768003	Resistor	R144,R167,R864-R871	Bellcore Issue 6	Level I		0.002268	10.00	.1407	0.022677	440974090.03
105A564903	Resistor	R605	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
105A502233	Resistor	R142	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
1212306030	Inductor	PB1,PB6,PB9	Bellcore Issue 6	Level I		0.002268	3.00	.0422	0.006803	440974090.03
1212308054	Inductor	FB11,FB8,FB9,PB10,PB2-PB5,PB8	Bellcore Issue 6	Level I		0.002268	9.00	.1267	0.020409	440974090.03
1231332721	Miscellaneous	Y1,Y4	Bellcore Issue 6	Level I		0.150000	2.00	1.8618	0.300000	6666666.67
1121501680	Capacitor	BC131,BC136,BC139,BC142,BC147,BC148,BC152,BC154,BC156,BC163,BC164,BC173	Bellcore Issue 6	Level I		0.004535	12.00	.3378	0.054425	220487045.01
1121501680	Capacitor	BC174,BC176,BC177,BC178,BC207,BC208,BC211,BC221,BC245,BC291,BC53,BC54	Bellcore Issue 6	Level I		0.004535	12.00	.3378	0.054425	220487045.01
1121501680	Capacitor	BC57,BC66,BC68,BC69,BC71-BC73,BC75,BC76,BC95,C117	Bellcore Issue 6	Level I		0.004535	11.00	.3096	0.049890	220487045.01
1122722780	Capacitor	C205,C211	Bellcore Issue 6	Level I		0.004535	2.00	.0563	0.009071	220487045.01
1124422080	Capacitor	C123,C124,C292,C293,C303,C304-C47,C96	Bellcore Issue 6	Level I		0.004535	8.00	.2252	0.036283	220487045.01

AAEON Reliability Prediction Report

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Reference Des
Date 10. 12, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

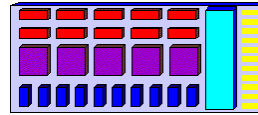


Description Top-level assembly
File Name FSB-960H.RPJ
Time 10:04 AM
Failure Rate 16.113017
MTBF 62,062

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1124510280	Capacitor	C101,C17,C44,C46	Bellcore Issue 6	Level I		0.004535	4.00	.1126	0.018142	220487045.01
1124522280	Capacitor	C136,C23,C231	Bellcore Issue 6	Level I		0.004535	3.00	.0844	0.013606	220487045.01
1124427080	Capacitor	C78,C79	Bellcore Issue 6	Level I		0.004535	2.00	.0563	0.009071	220487045.01
1124447080	Capacitor	C125,C127,C130,C134	Bellcore Issue 6	Level I		0.004535	4.00	.1126	0.018142	220487045.01
1124547180	Capacitor	C178,C183,C189,C9	Bellcore Issue 6	Level I		0.004535	4.00	.1126	0.018142	220487045.01
1540700080	Resistor	RN25,RN26	Bellcore Issue 6	Level I		0.006246	2.00	.0775	0.012492	160102772.00
1540701380	Resistor	RN1	Bellcore Issue 6	Level I		0.006246	1.00	.0388	0.006246	160102772.00
1540722080	Resistor	RN29-RN33	Bellcore Issue 6	Level I		0.006246	5.00	.1938	0.031230	160102772.00
1301005440	Semiconductor	DD2,DD3	Bellcore Issue 6	Level I		0.023881	2.00	.2964	0.047762	41874327.58
1305099140	Semiconductor	Q30,Q31	Bellcore Issue 6	Level I		0.079603	2.00	.9881	0.159207	12562298.27
1310222210	Semiconductor	Q22,Q40,Q41,Q44,Q50,Q82	Bellcore Issue 6	Level I		0.023881	6.00	.8893	0.143286	41874327.58
1311390610	Semiconductor	Q35	Bellcore Issue 6	Level I		0.023881	1.00	.1482	0.023881	41874327.58
1124556280	Capacitor	C264	Bellcore Issue 6	Level I		0.004535	1.00	.0281	0.004535	220487045.01
1651203291	Connection	U11	Bellcore Issue 6	Level I		0.018207	1.00	.1130	0.018207	54923766.92
14S4048501	Integrated Circuit	U25,U26	Bellcore Issue 6	Level I		0.059366	2.00	.7369	0.118732	16844654.92
14S4021310	Integrated Circuit	U27,U46	Bellcore Issue 6	Level I		0.059366	2.00	.7369	0.118732	16844654.92
1181647080	Capacitor	EC44,EC47	Bellcore Issue 6	Level I		0.004535	2.00	.0563	0.009071	220487045.01
14S5A01400	Integrated Circuit	U2	Bellcore Issue 6	Level I		0.059366	1.00	.3684	0.059366	16844654.92
105A575003	Resistor	R422	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
14S5A01430	Integrated Circuit	U42,U7	Bellcore Issue 6	Level I		0.059366	2.00	.7369	0.118732	16844654.92
105A520003	Resistor	R382,R396,R631,R635,R652,R668	Bellcore Issue 6	Level I		0.002268	6.00	.0844	0.013606	440974090.03
105A505633	Resistor	R127	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
105A512033	Resistor	R735	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
105A733033	Resistor	R374,R385	Bellcore Issue 6	Level I		0.002268	2.00	.0281	0.004535	440974090.03
105A530103	Resistor	R403	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
105A539263	Resistor	R366,R367	Bellcore Issue 6	Level I		0.002268	2.00	.0281	0.004535	440974090.03
1124418080	Capacitor	C110,C114,C171,C172	Bellcore Issue 6	Level I		0.004535	4.00	.1126	0.018142	220487045.01
105A545303	Resistor	R274,R722	Bellcore Issue 6	Level I		0.002268	2.00	.0281	0.004535	440974090.03
1189610180	Capacitor	C25	Bellcore Issue 6	Level I		0.004535	1.00	.0281	0.004535	220487045.01
1059710003	Resistor	R206,R473,R66,R833	Bellcore Issue 6	Level I		0.002268	4.00	.0563	0.009071	440974090.03

AAEON Reliability Prediction Report

Part Number 9697960H05-DIP
Reference Des
Date 10. 12, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name FSB-960H.RPJ
Time 10:04 AM
Failure Rate 16.113017
MTBF 62,062

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1122601680	Capacitor	BC101,BC103-BC113,BC116,BC119-BC121,BC123,BC124,BC129,BC130,BC132,BC133	Bellcore Issue 6	Level I		0.004535	22.00	.6192	0.099779	220487045.01
1122601680	Capacitor	BC135,BC137,BC138,BC140,BC141,BC143-BC146,BC149-BC151,BC153,BC155,BC157	Bellcore Issue 6	Level I		0.004535	15.00	.4222	0.068031	220487045.01
1122601680	Capacitor	BC158-BC162,BC166,BC169,BC170,BC175,BC181,BC184,BC186-BC188,BC192,BC194	Bellcore Issue 6	Level I		0.004535	16.00	.4504	0.072567	220487045.01
1122601680	Capacitor	BC195,BC199-BC206,BC209,BC210,BC212,BC213,BC215-BC218,BC22,BC225,BC23	Bellcore Issue 6	Level I		0.004535	20.00	.5630	0.090708	220487045.01
1122601680	Capacitor	BC231,BC236,BC24,BC244,BC25,-BC26,BC278,BC286-BC290,BC3,BC4,BC42-BC47	Bellcore Issue 6	Level I		0.004535	20.00	.5630	0.090708	220487045.01
1122601680	Capacitor	BC52,BC56,BC6,BC65,BC67,BC70,BC74,BC77,BC78,BC81,BC83,BC89,BC90,BC94	Bellcore Issue 6	Level I		0.004535	14.00	.3941	0.063496	220487045.01
1122601680	Capacitor	BC96-BC99	Bellcore Issue 6	Level I		0.004535	4.00	.1126	0.018142	220487045.01
1122501780	Capacitor	C10,C109,C149,C15,C160,C164,C169,C182,C186,C191,C241,C253,C39,C64,C95	Bellcore Issue 6	Level I		0.004535	15.00	.4222	0.068031	220487045.01
1124701680	Capacitor	BC102,BC191,BC198,BC7	Bellcore Issue 6	Level I		0.004535	4.00	.1126	0.018142	220487045.01
1310390411	Semiconductor	Q1,Q10,Q12,Q14-Q16,Q2,Q20,Q21-Q3,Q32,Q33,Q36-Q38,Q46,Q51,Q59,Q60,Q62	Bellcore Issue 6	Level I		0.023881	20.00	2.9642	0.477620	41874327.58
1310390411	Semiconductor	Q64-Q66,Q68,Q70-Q72,Q83,Q85,-Q86,Q88,Q91	Bellcore Issue 6	Level I		0.023881	12.00	1.7785	0.286572	41874327.58
1315700212	Semiconductor	Q34,Q42,Q43,Q47-Q49,Q53,Q6,Q7-Q76,Q94	Bellcore Issue 6	Level I		0.079603	11.00	5.4343	0.875636	12562298.27
1300414843	Semiconductor	D1,D10,D11,D19-D22,D25-D35	Bellcore Issue 6	Level I		0.023881	18.00	2.6678	0.429858	41874327.58
105A700103	Resistor	R135,R153,R264,R265,R35,R356,-R357,R359,R360,R377,R399,R400,-R479	Bellcore Issue 6	Level I		0.002268	13.00	.1830	0.029480	440974090.03
1174518180	Capacitor	CP1-CP4	Bellcore Issue 6	Level I		0.005466	4.00	.1357	0.021862	182961702.19
105A590963	Resistor	R128	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
105A506823	Resistor	R437	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
1540722085	Resistor	RN34-RN38	Bellcore Issue 6	Level I		0.006246	5.00	.1938	0.031230	160102772.00

AAEON Reliability Prediction Report

Part Number 9697960H05-DIP
Reference Des
Date 10. 12, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name FSB-960H.RPJ
Time 10:04 AM
Failure Rate 16.113017
MTBF 62,062

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A708229	Resistor	R440,R461,R462,R770,R786,R794-,R803,R810-R813,R817,R818,R851-,R852,R899	Bellcore Issue 6	Level I		0.002268	16.00	.2252	0.036283	440974090.03
105A708229	Resistor	R900-R902,R994-R996	Bellcore Issue 6	Level I		0.002268	6.00	.0844	0.013606	440974090.03
105A700139	Resistor	R222,R236,R237,R248,R249,R337-,R435,R445,R583,R684,R713,R733-,R738,R773	Bellcore Issue 6	Level I		0.002268	14.00	.1970	0.031748	440974090.03
105A700139	Resistor	R789,R846,R875,R882,R894	Bellcore Issue 6	Level I		0.002268	5.00	.0704	0.011339	440974090.03
105A704729	Resistor	R215,R415,R450,R695,R859,R948-,R961,R982	Bellcore Issue 6	Level I		0.002268	8.00	.1126	0.018142	440974090.03
105A700009	Resistor	C288-C291,C299-C302,C310-C317-,R228,R446,R457,R458,R460,R466-,R763,R769	Bellcore Issue 6	Level I		0.002268	24.00	.3378	0.054425	440974090.03
105A700009	Resistor	R796,R799,R808,R809,R814-R816-,R836-R839,R841,R853,R877-R880-,R889,R904	Bellcore Issue 6	Level I		0.002268	19.00	.2674	0.043086	440974090.03
105A700009	Resistor	R905,R907,R913,R935,R936,R938-,R944,R947,R960,R970,R975	Bellcore Issue 6	Level I		0.002268	11.00	.1548	0.024945	440974090.03
105A701039	Resistor	R301,R322,R326,R439,R453,R748-,R754,R755,R766,R774,R775,R783-,R805,R826	Bellcore Issue 6	Level I		0.002268	14.00	.1970	0.031748	440974090.03
105A701039	Resistor	R827,R872,R873,R911,R912,R943-,R949,R950,R952,R954-R957,R962-,R980,R981,R990	Bellcore Issue 6	Level I		0.002268	17.00	.2393	0.038551	440974090.03
105A710009	Resistor	R270,R782,R785,R795,R798	Bellcore Issue 6	Level I		0.002268	5.00	.0704	0.011339	440974090.03
105A703309	Resistor	R100-R111,R238-R241,R244-R247-,R250,R251,R286,R294-R296,R298-,R300,R302	Bellcore Issue 6	Level I		0.002268	29.00	.4081	0.065764	440974090.03
105A703309	Resistor	R303-R315,R350,R352,R353,R37-,R41,R42,R44-R59,R597,R60,R61,-R825,R88,R91	Bellcore Issue 6	Level I		0.002268	41.00	.5770	0.092976	440974090.03
105A703309	Resistor	R92,R94-R99,R999	Bellcore Issue 6	Level I		0.002268	8.00	.1126	0.018142	440974090.03
105A704739	Resistor	R598,R639	Bellcore Issue 6	Level I		0.002268	2.00	.0281	0.004535	440974090.03
105A702239	Resistor	R780	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
105A702229	Resistor	R392,R448,R893	Bellcore Issue 6	Level I		0.002268	3.00	.0422	0.006803	440974090.03
1540782282	Resistor	RN2,RN27,RN28,RN3,RN4	Bellcore Issue 6	Level I		0.006246	5.00	.1938	0.031230	160102772.00
1129701790	Capacitor	C138-C141,C175,C176,C180,C184-,C266,C269-C272,C274,C50,C51,C-55,C62	Bellcore Issue 6	Level I		0.004535	18.00	.5067	0.081637	220487045.01

AAEON Reliability Prediction Report

Part Number 9697960H05-DIP
Reference Des
Date 10. 12, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name FSB-960H.RPJ
Time 10:04 AM
Failure Rate 16.113017
MTBF 62,062

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
14S5A00401	Integrated Circuit	U48	Bellcore Issue 6	Level I		0.039296	1.00	.2439	0.039296	25448028.36
1124433680	Capacitor	C56,C58,C65,C71,C75,C77	Bellcore Issue 6	Level I		0.004535	6.00	.1689	0.027212	220487045.01
1129722680	Capacitor	C122,C18,C239,C243,C246,C249,- C251,C252,C37,C38,C40-C43	Bellcore Issue 6	Level I		0.004535	14.00	.3941	0.063496	220487045.01
105A539203	Resistor	R613	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
1121733380	Capacitor	C260	Bellcore Issue 6	Level I		0.004535	1.00	.0281	0.004535	220487045.01
105A702263	Resistor	R201,R29,R343,R36,R486,R500,R- 516,R581,R677,R680,R690,R70	Bellcore Issue 6	Level I		0.002268	12.00	.1689	0.027212	440974090.03
1059702261	Resistor	R430,R81	Bellcore Issue 6	Level I		0.002268	2.00	.0281	0.004535	440974090.03
105A524963	Resistor	R586,R611,R625,R698,R760	Bellcore Issue 6	Level I		0.002268	5.00	.0704	0.011339	440974090.03
1314108412	Integrated Circuit	U45	Bellcore Issue 6	Level I		0.059366	1.00	.3684	0.059366	16844654.92
105A582563	Resistor	R858	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
121230603C	Inductor	FB4-FB7	Bellcore Issue 6	Level I		0.002268	4.00	.0563	0.009071	440974090.03
14S5A12503	Integrated Circuit	U1,U5,U6	Bellcore Issue 6	Level I		0.039296	3.00	.7316	0.117887	25448028.36
1129710060	Capacitor	TC3,TC6	Bellcore Issue 6	Level I		0.004535	2.00	.0563	0.009071	220487045.01
1311006910	Semiconductor	Q75	Bellcore Issue 6	Level I		0.023881	1.00	.1482	0.023881	41874327.58
105A706203	Resistor	R198,R211,R220,R229,R230,R291- R589,R590,R646	Bellcore Issue 6	Level I		0.002268	9.00	.1267	0.020409	440974090.03
1189647190	Capacitor	EC10,EC11,EC13,EC15,EC20,EC3- 0,EC31	Bellcore Issue 6	Level I		0.004535	7.00	.1970	0.031748	220487045.01
14S59G0800	Integrated Circuit	U52	Bellcore Issue 6	Level I		0.059366	1.00	.3684	0.059366	16844654.92
105A522663	Resistor	R284	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
1304101340	Semiconductor	LED1-LED3	Bellcore Issue 6	Level I		0.004877	3.00	.0908	0.014630	205063180.81
105A701539	Resistor	R456	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
105A747009	Resistor	R213,R233,R697,R741,R758,R767- R792,R946	Bellcore Issue 6	Level I		0.002268	8.00	.1126	0.018142	440974090.03
105A702209	Resistor	R297,R321,R964,R965,R971,R972	Bellcore Issue 6	Level I		0.002268	6.00	.0844	0.013606	440974090.03
1124427090	Capacitor	C63,C70	Bellcore Issue 6	Level I		0.004535	2.00	.0563	0.009071	220487045.01
105A516519	Resistor	R932,R967	Bellcore Issue 6	Level I		0.002268	2.00	.0281	0.004535	440974090.03
105A549969	Resistor	R354,R358,R375,R380,R689,R694- R701,R710	Bellcore Issue 6	Level I		0.002268	8.00	.1126	0.018142	440974090.03
105A500139	Resistor	R463,R778,R919,R921,R958,R959	Bellcore Issue 6	Level I		0.002268	6.00	.0844	0.013606	440974090.03
14S1035800	Integrated Circuit	U16	Bellcore Issue 6	Level I		0.059366	1.00	.3684	0.059366	16844654.92
1653925216	Connection	CFD1	Bellcore Issue 6	Level I		0.028449	1.00	.1766	0.028449	35151210.83

AAEON Reliability Prediction Report

Part Number 9697960H05-DIP
Reference Des
Date 10. 12, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name FSB-960H.RPJ
Time 10:04 AM
Failure Rate 16.113017
MTBF 62,062

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
11C1501080	Capacitor	C1,C108,C112,C115,C116,C121,C-13,C132,C14,C16,C165,C177,C197-C198,C2,C206	Bellcore Issue 6	Level I		0.004535	16.00	.4504	0.072567	220487045.01
11C1501080	Capacitor	C218,C226,C227,C229,C236,C237-C24,C247,C26,C262,C267,C27,C3-C30-C34,C4-C8	Bellcore Issue 6	Level I		0.004535	23.00	.6474	0.104315	220487045.01
105A508233	Resistor	R615	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
14S5A03200	Integrated Circuit	U49	Bellcore Issue 6	Level I		0.059366	1.00	.3684	0.059366	16844654.92
1121501690	Capacitor	BC10-BC16,BC167,BC168,BC17,B-C171,BC172,BC179,BC18,BC182,-BC185,BC189,BC19	Bellcore Issue 6	Level I		0.004535	18.00	.5067	0.081637	220487045.01
1121501690	Capacitor	BC190,BC193,BC20,BC21,BC214,-BC219,BC220,BC222,BC223,BC22-4,BC226-BC230	Bellcore Issue 6	Level I		0.004535	15.00	.4222	0.068031	220487045.01
1121501690	Capacitor	BC232,BC234,BC235,BC237-BC24-3,BC246-BC277,BC279,BC28,BC2-80-BC285,BC29	Bellcore Issue 6	Level I		0.004535	51.00	1.4355	0.231306	220487045.01
1121501690	Capacitor	BC292-BC305,BC30-BC41,BC61-B-C64,BC79,BC8,BC82,BC84-BC88,-BC9,BC91-BC93	Bellcore Issue 6	Level I		0.004535	41.00	1.1540	0.185952	220487045.01
1121501690	Capacitor	C285,C294,C305	Bellcore Issue 6	Level I		0.004535	3.00	.0844	0.013606	220487045.01
123131435B	Miscellaneous	Y2	Bellcore Issue 6	Level I		0.150000	1.00	.9309	0.150000	6666666.67
1231325058	Miscellaneous	Y3,Y5-Y7	Bellcore Issue 6	Level I		0.150000	4.00	3.7237	0.600000	6666666.67
11A4410180	Capacitor	C48	Bellcore Issue 6	Level I		0.004535	1.00	.0281	0.004535	220487045.01
14S2921400	Integrated Circuit	U23,U32	Bellcore Issue 6	Level I		0.059366	2.00	.7369	0.118732	16844654.92
106B501032	Resistor	RT3	Bellcore Issue 6	Level I		0.011379	1.00	.0706	0.011379	87878027.07
118962218B	Capacitor	EC42,EC43,EC54	Bellcore Issue 6	Level I		0.004535	3.00	.0844	0.013606	220487045.01
1189633184	Capacitor	EC26,EC50	Bellcore Issue 6	Level I		0.004535	2.00	.0563	0.009071	220487045.01
1189647180	Capacitor	EC16-EC18,EC21,EC24,EC25,EC2-9,EC33,EC37,EC49,EC51,EC52,E-C55,EC56,EC7-EC9	Bellcore Issue 6	Level I		0.004535	17.00	.4785	0.077102	220487045.01
1121647480	Capacitor	C209	Bellcore Issue 6	Level I		0.004535	1.00	.0281	0.004535	220487045.01
121110100F	Inductor	L26,L27,L30-L32	Bellcore Issue 6	Level I		0.086173	5.00	2.6740	0.430864	11604581.32
121110010Z	Inductor	L14,L23,L24,L28	Bellcore Issue 6	Level I		0.086173	4.00	2.1392	0.344691	11604581.32
131411171C	Integrated Circuit	Q89,Q90,Q92,Q93	Bellcore Issue 6	Level I		0.059366	4.00	1.4737	0.237464	16844654.92
14S3128421	Integrated Circuit	U8	Bellcore Issue 6	Level I		0.059366	1.00	.3684	0.059366	16844654.92

AAEON Reliability Prediction Report

Part Number 9697960H05-DIP
Reference Des
Date 10. 12, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name FSB-960H.RPJ
Time 10:04 AM
Failure Rate 16.113017
MTBF 62,062

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1752310000	Miscellaneous	FUSE1-FUSE6	Bellcore Issue 6	Level I		0.030000	6.00	1.1171	0.180000	3333333.33
1124515880	Capacitor	C263	Bellcore Issue 6	Level I		0.004535	1.00	.0281	0.004535	220487045.01
1050547004	Resistor	R933,R968	Bellcore Issue 6	Level I		0.002268	2.00	.0281	0.004535	440974090.03
1211105673	Inductor	L1	Bellcore Issue 6	Level I		0.086173	1.00	.5348	0.086173	11604581.32
1129610080	Capacitor	TC47,TC48	Bellcore Issue 6	Level I		0.004535	2.00	.0563	0.009071	220487045.01
1315888010	Semiconductor	Q54-Q56,Q63,Q73,Q81	Bellcore Issue 6	Level I		0.079603	6.00	2.9642	0.477620	12562298.27
14S9811500	Integrated Circuit	U47	Bellcore Issue 6	Level I		0.039296	1.00	.2439	0.039296	25448028.36
14S4825730	Integrated Circuit	U22	Bellcore Issue 6	Level I		0.039296	1.00	.2439	0.039296	25448028.36
14S6308001	Integrated Circuit	U37	Bellcore Issue 6	Level I		0.047855	1.00	.2970	0.047855	20896551.49
11E2601050	Capacitor	C105,C129,C145,C148,C153-C155-C170,C250	Bellcore Issue 6	Level I		0.004535	9.00	.2533	0.040819	220487045.01
11C9501050	Capacitor	C199-C202,C215	Bellcore Issue 6	Level I		0.004535	5.00	.1407	0.022677	220487045.01
11E1647650	Capacitor	C11,C111,C119,C12,C174,C179,C188,C194,C196,C208,C21,C213,C217,C22,C220	Bellcore Issue 6	Level I		0.004535	15.00	.4222	0.068031	220487045.01
11E1647650	Capacitor	C228,C255,C286,C287,C29,C295-C298,C306-C309,C49,C83	Bellcore Issue 6	Level I		0.004535	15.00	.4222	0.068031	220487045.01
11B2722650	Capacitor	C156,C232	Bellcore Issue 6	Level I		0.004535	2.00	.0563	0.009071	220487045.01
1050724034	Resistor	R68	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
11E9501091	Capacitor	C133,C258	Bellcore Issue 6	Level I		0.004535	2.00	.0563	0.009071	220487045.01
1211000180	Inductor	L29,L5	Bellcore Issue 6	Level I		0.086173	2.00	1.0696	0.172346	11604581.32
11E1622060	Capacitor	C52-C54,C59-C61,C66,C68,C72-C74,C80-C82,C86-C88	Bellcore Issue 6	Level I		0.004535	17.00	.4785	0.077102	220487045.01
14S4256203	Inductor	U13	Bellcore Issue 6	Level I		0.136062	1.00	.8444	0.136062	7349568.17
14S4632600	Integrated Circuit	U41	Bellcore Issue 6	Level I		0.039296	1.00	.2439	0.039296	25448028.36
14S4661400	Integrated Circuit	U21,U29	Bellcore Issue 6	Level I		0.059366	2.00	.7369	0.118732	16844654.92
105A516563	Resistor	R708	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
105A530113	Resistor	R603	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
105A524333	Resistor	R734	Bellcore Issue 6	Level I		0.002268	1.00	.0141	0.002268	440974090.03
1651612992	Connection	CPU1	Bellcore Issue 6	Level I		0.001138	1.00	.0071	0.001138	878780270.71
14S4963500	Integrated Circuit	U35	Bellcore Issue 6	Level I		0.039296	1.00	.2439	0.039296	25448028.36
14S4362705	Integrated Circuit	U31	Bellcore Issue 6	Level I		0.039296	1.00	.2439	0.039296	25448028.36
14S3508100	Integrated Circuit	U44	Bellcore Issue 6	Level I		0.059366	1.00	.3684	0.059366	16844654.92

