

GENE-5315

Reliability Prediction Report (MTBF)

Report NO : 06E070021

11-29-2006

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** GENE-5315

II . **Prediction Date:** Nov. 29, 2006

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: 25.4 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:

- GENE-5315
 - Failure Rate: 10.500465 ppm
 - MTBF: 95,234 Hours

AAEON Reliability Prediction Report

Part Number 9697531506
Reference Des
Date 11. 29, 2006
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.40



Description Top-level assembly
File Name GENE-5315.RPJ
Time 5:55 下午
Failure Rate 10.500465
MTBF 95,234

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
GENE-5315	9697531506	Belcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	10.500465	95,234

AAEON Reliability Prediction Report

Part Number 9697531506
Reference Des
Date 11. 29, 2006
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.40



Description Top-level assembly
File Name GENE-5315.RPJ
Time 5:55 下午
Failure Rate 10.500465
MTBF 95,234

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1653002100	Connection	JP1	Bellcore Issue 6	Level I		0.001162	1.00	.0111	0.001162	860627088.80
1653003101	Connection	JP2,JP3	Bellcore Issue 6	Level I		0.001743	2.00	.0332	0.003486	573751392.53
1653003201	Connection	JP4	Bellcore Issue 6	Level I		0.003486	1.00	.0332	0.003486	286875696.27
1653005201	Connection	CN4	Bellcore Issue 6	Level I		0.023239	1.00	.2213	0.023239	43031354.44
1653120225	Connection	CN11	Bellcore Issue 6	Level I		0.023239	1.00	.2213	0.023239	43031354.44
1653132220	Connection	CN11	Bellcore Issue 6	Level I		0.023239	1.00	.2213	0.023239	43031354.44
1653300101	Connection	JP1	Bellcore Issue 6	Level I		0.023239	1.00	.2213	0.023239	43031354.44
1653300102	Connection	JP2,JP3,JP4*2,JP5*2	Bellcore Issue 6	Level I		0.001162	6.00	.0664	0.006972	860627088.80
1654409103	Connection	CN19	Bellcore Issue 6	Level I		0.023239	1.00	.2213	0.023239	43031354.44
1655306020	Connection	CN8	Bellcore Issue 6	Level I		0.003486	1.00	.0332	0.003486	286875696.27
1653006101	Connection	CN17	Bellcore Issue 6	Level I		0.023239	1.00	.2213	0.023239	43031354.44
1653900034	Connection	CFD1	Bellcore Issue 6	Level I		0.001162	1.00	.0111	0.001162	860627088.80
1655003023	Connection	CN14	Bellcore Issue 6	Level I		0.001743	1.00	.0166	0.001743	573751392.53
1656304022	Connection	CN9	Bellcore Issue 6	Level I		0.023239	1.00	.2213	0.023239	43031354.44
1111610194	Capacitor	EC1-EC3	Bellcore Issue 6	Level I		0.043573	3.00	1.2449	0.130719	22950055.70
1654606306	Connection	CN18	Bellcore Issue 6	Level I		0.023239	1.00	.2213	0.023239	43031354.44
1654515308	Connection	CN20	Bellcore Issue 6	Level I		0.023239	1.00	.2213	0.023239	43031354.44
1189656190	Capacitor	EC6	Bellcore Issue 6	Level I		0.004571	1.00	.0435	0.004571	218767898.34
1652512207	Connection	CN15,CN16	Bellcore Issue 6	Level I		0.023239	2.00	.4426	0.046478	43031354.44
1655902030	Connection	BAT1	Bellcore Issue 6	Level I		0.001162	1.00	.0111	0.001162	860627088.80
175011901C	Miscellaneous	BAT1	Bellcore Issue 6	Level I		0.900000	1.00	8.5710	0.900000	1111111.11
14S6200404	Integrated Circuit	U8	Bellcore Issue 6	Level I		0.166454	1.00	1.5852	0.166454	6007674.65
105A512113	Resistor	R323	Bellcore Issue 6	Level I		0.002286	1.00	.0218	0.002286	437535796.67
105A700003	Resistor	FB2-FB5,FB52-FB55,R157,R320,R-341,R378-R380,R405,R460	Bellcore Issue 6	Level I		0.002286	16.00	.3483	0.036568	437535796.67
105A701003	Resistor	R324,R4,R83	Bellcore Issue 6	Level I		0.002286	3.00	.0653	0.006857	437535796.67
105A701053	Resistor	R399	Bellcore Issue 6	Level I		0.002286	1.00	.0218	0.002286	437535796.67
105A703323	Resistor	R240,R319	Bellcore Issue 6	Level I		0.002286	2.00	.0435	0.004571	437535796.67
105A702733	Resistor	R263,R318	Bellcore Issue 6	Level I		0.002286	2.00	.0435	0.004571	437535796.67
105A710053	Resistor	R1,R381	Bellcore Issue 6	Level I		0.013713	2.00	.2612	0.027426	72922632.78
105A503033	Resistor	R190	Bellcore Issue 6	Level I		0.002286	1.00	.0218	0.002286	437535796.67

AAEON Reliability Prediction Report

Part Number 9697531506
Reference Des
Date 11. 29, 2006
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.40



Description Top-level assembly
File Name GENE-5315.RPJ
Time 5:55 下午
Failure Rate 10.500465
MTBF 95,234

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A705133	Resistor	R343,R360,R361	Bellcore Issue 6	Level I		0.002286	3.00	.0653	0.006857	437535796.67
1212306030	Inductor	FB1,FB12,FB14,FB16,FB26-FB30,- FB34,FB36,FB37,FB39-FB42,FB44- -FB48,FB8	Bellcore Issue 6	Level I		0.002286	22.00	.4789	0.050282	437535796.67
1212308054	Inductor	FB17,FB49-FB51,FB6,FB7	Bellcore Issue 6	Level I		0.002286	6.00	.1306	0.013713	437535796.67
1231332721	Miscellaneous	Y2	Bellcore Issue 6	Level I		0.150000	1.00	1.4285	0.150000	6666666.67
1124522280	Capacitor	C274,C374	Bellcore Issue 6	Level I		0.004571	2.00	.0871	0.009142	218767898.34
1124522880	Capacitor	C151	Bellcore Issue 6	Level I		0.004571	1.00	.0435	0.004571	218767898.34
1129747650	Capacitor	C242	Bellcore Issue 6	Level I		0.004571	1.00	.0435	0.004571	218767898.34
1301005440	Semiconductor	D11,D16,D17,D2,D25	Bellcore Issue 6	Level I		0.024157	5.00	1.1503	0.120784	41396339.36
1301005441	Semiconductor	D19,D20,D23,D7,D8	Bellcore Issue 6	Level I		0.024157	5.00	1.1503	0.120784	41396339.36
1302001240	Semiconductor	D13,D6	Bellcore Issue 6	Level I		0.027426	2.00	.5224	0.054853	36461316.39
1311390610	Semiconductor	Q11	Bellcore Issue 6	Level I		0.024157	1.00	.2301	0.024157	41396339.36
14S4021301	Integrated Circuit	U14	Bellcore Issue 6	Level I		0.061126	1.00	.5821	0.061126	16359526.04
14S4021301	Integrated Circuit	U15	Bellcore Issue 6	Level I	12.10	0.142787	1.00	1.3598	0.142787	7003433.09
1651203291	Connection	U8	Bellcore Issue 6	Level I		0.018591	1.00	.1771	0.018591	53789193.05
14S4911216	Integrated Circuit	U7	Bellcore Issue 6	Level I	12.60	0.081727	1.00	.7783	0.081727	12235812.22
1653005202	Connection	CN21,CN5,CN6	Bellcore Issue 6	Level I		0.005810	3.00	.1660	0.017429	172125417.76
1653007204	Connection	CN7	Bellcore Issue 6	Level I		0.008134	1.00	.0775	0.008134	122946726.97
1653205201	Connection	CN13	Bellcore Issue 6	Level I		0.005810	1.00	.0553	0.005810	172125417.76
14S6334610	Integrated Circuit	U32,U35	Bellcore Issue 6	Level I		0.031505	2.00	.6001	0.063011	31740600.08
1301005442	Semiconductor	D3,D9	Bellcore Issue 6	Level I		0.024157	2.00	.4601	0.048313	41396339.36
1212306035	Inductor	FB10,FB11,FB13,FB18-FB25,FB31- -FB33,FB35,FB9	Bellcore Issue 6	Level I		0.002286	16.00	.3483	0.036568	437535796.67
14S5A01400	Integrated Circuit	U26,U46	Bellcore Issue 6	Level I		0.061126	2.00	1.1643	0.122253	16359526.04
105A512033	Resistor	R79	Bellcore Issue 6	Level I		0.002286	1.00	.0218	0.002286	437535796.67
105A503423	Resistor	R383	Bellcore Issue 6	Level I		0.002286	1.00	.0218	0.002286	437535796.67
1310390411	Semiconductor	Q7,Q8	Bellcore Issue 6	Level I		0.024157	2.00	.4601	0.048313	41396339.36
1315700212	Semiconductor	Q1,Q10,Q2,Q5,Q9	Bellcore Issue 6	Level I		0.080522	5.00	3.8342	0.402612	12418901.81
105A547003	Resistor	R186,R208	Bellcore Issue 6	Level I		0.002286	2.00	.0435	0.004571	437535796.67
1540710382	Resistor	RP26,RP3,RP4,RP43-RP49,RP5,R- P53,RP55,RP58,RP59,RP6,RP68,- RP74,RP76,RP81	Bellcore Issue 6	Level I		0.006361	20.00	1.2116	0.127222	157205134.20

AAEON Reliability Prediction Report

Part Number 9697531506
Reference Des
Date 11. 29, 2006
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.40



Description Top-level assembly
File Name GENE-5315.RPJ
Time 5:55 下午
Failure Rate 10.500465
MTBF 95,234

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1540710382	Resistor	RP82-RP85	Bellcore Issue 6	Level I		0.006361	4.00	.2423	0.025444	157205134.20
1540733085	Resistor	RP27-RP42,RP86-RP90	Bellcore Issue 6	Level I		0.006361	21.00	1.2722	0.133583	157205134.20
105A700103	Resistor	R289,R290,R298	Bellcore Issue 6	Level I		0.002286	3.00	.0653	0.006857	437535796.67
105A568123	Resistor	R80	Bellcore Issue 6	Level I		0.002286	1.00	.0218	0.002286	437535796.67
105A516513	Resistor	R3	Bellcore Issue 6	Level I		0.002286	1.00	.0218	0.002286	437535796.67
105A506823	Resistor	R160,R191	Bellcore Issue 6	Level I		0.002286	2.00	.0435	0.004571	437535796.67
1540722085	Resistor	RP1,RP2,RP50-RP52,RP54,RP56,- RP57,RP69-RP73,RP77-RP79	Bellcore Issue 6	Level I		0.006361	16.00	.9693	0.101778	157205134.20
1540700081	Resistor	RP101,RP60-RP67,RP95,RP96,RP- 98	Bellcore Issue 6	Level I		0.006361	12.00	.7270	0.076333	157205134.20
105A700139	Resistor	R177,R181,R195,R206,R215,R216- R220,R223,R227,R228,R235,R241- R244,R271	Bellcore Issue 6	Level I		0.002286	14.00	.3047	0.031997	437535796.67
105A700139	Resistor	R286,R296,R302,R306,R307,R310- R325,R328,R338,R340,R344,R346- R376,R382	Bellcore Issue 6	Level I		0.002286	14.00	.3047	0.031997	437535796.67
105A700139	Resistor	R96,R97	Bellcore Issue 6	Level I		0.002286	2.00	.0435	0.004571	437535796.67
105A704729	Resistor	R110,R158,R159,R170,R171,R18,- R198,R203,R267,R269,R272,R273- R28,R345,R350	Bellcore Issue 6	Level I		0.002286	15.00	.3265	0.034283	437535796.67
105A704729	Resistor	R355,R357,R359,R402,R87,R9,R93- R95,R98,R99	Bellcore Issue 6	Level I		0.002286	10.00	.2177	0.022855	437535796.67
105A700009	Resistor	R10-R12,R122,R13,R153,R19,R202- R260,R261,R274,R277,R280,R281- R287,R304	Bellcore Issue 6	Level I		0.002286	16.00	.3483	0.036568	437535796.67
105A700009	Resistor	R309,R329,R353,R391-R394,R397- R398,R400,R401,R404,R410,R411	Bellcore Issue 6	Level I		0.002286	14.00	.3047	0.031997	437535796.67
105A701039	Resistor	R103,R111,R113,R115,R129,R130- R136,R163,R165,R17,R176,R193,- R197,R200	Bellcore Issue 6	Level I		0.002286	14.00	.3047	0.031997	437535796.67
105A701039	Resistor	R207,R209,R210,R214,R217,R219- R221,R222,R224-R226,R229-R233- R238,R243	Bellcore Issue 6	Level I		0.002286	18.00	.3918	0.041139	437535796.67
105A701039	Resistor	R252,R264,R265,R268,R278,R279- R283,R284,R292,R293,R299,R300- R303,R316	Bellcore Issue 6	Level I		0.002286	14.00	.3047	0.031997	437535796.67
105A701039	Resistor	R339,R363,R395,R396,R76,R8,R92	Bellcore Issue 6	Level I		0.002286	7.00	.1524	0.015999	437535796.67
105A710009	Resistor	R151,R164,R81	Bellcore Issue 6	Level I		0.002286	3.00	.0653	0.006857	437535796.67

AAEON Reliability Prediction Report

Part Number 9697531506
Reference Des
Date 11. 29, 2006
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.40



Description Top-level assembly
File Name GENE-5315.RPJ
Time 5:55 下午
Failure Rate 10.500465
MTBF 95,234

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A703309	Resistor	R100,R106,R114,R126,R196,R199- R275,R282,R315,R334,R337,R349- R362,R388	Bellcore Issue 6	Level I		0.002286	14.00	.3047	0.031997	437535796.67
105A703309	Resistor	R389,R57,R59-R74	Bellcore Issue 6	Level I		0.002286	18.00	.3918	0.041139	437535796.67
105A702229	Resistor	R174,R245,R246,R27,R347,R348	Bellcore Issue 6	Level I		0.002286	6.00	.1306	0.013713	437535796.67
105A733009	Resistor	R152,R154-R156,R161,R168,R178- R367,R407,R408,R7	Bellcore Issue 6	Level I		0.002286	11.00	.2394	0.025141	437535796.67
1129701690	Capacitor	C1,C100,C106,C108,C110,C112,C- 113,C117-C120,C122,C127,C129,- C135-C137,C140	Bellcore Issue 6	Level I		0.004571	18.00	.7836	0.082279	218767898.34
1129701690	Capacitor	C141-C143,C147,C149,C150,C152- C156,C158,C16,C162-C165,C17,C- 173,C181,C182	Bellcore Issue 6	Level I		0.004571	18.00	.7836	0.082279	218767898.34
1129701690	Capacitor	C184,C186,C190-C193,C196-C198- C2,C202,C203,C206,C207,C211,C- 213,C217,C219	Bellcore Issue 6	Level I		0.004571	18.00	.7836	0.082279	218767898.34
1129701690	Capacitor	C220-C225,C227,C229,C23,C232,- C233,C235-C239,C243,C245-C248- C250-C252	Bellcore Issue 6	Level I		0.004571	24.00	1.0448	0.109705	218767898.34
1129701690	Capacitor	C255,C256,C259,C26,C260-C263,- C265,C267-C270,C272,C275,C277- C282,C28,C285	Bellcore Issue 6	Level I		0.004571	23.00	1.0012	0.105134	218767898.34
1129701690	Capacitor	C288,C297-C301,C30,C304,C305,- C308,C310,C313,C319,C32,C321,- C325,C330,C331	Bellcore Issue 6	Level I		0.004571	18.00	.7836	0.082279	218767898.34
1129701690	Capacitor	C332-C336,C342-C344,C346-C348- C350-C352,C357,C36,C362,C363,- C365,C369	Bellcore Issue 6	Level I		0.004571	20.00	.8706	0.091421	218767898.34
1129701690	Capacitor	C370-C372,C376-C383,C386-C392- C396,C397,C399,C4,C40,C402-C4- 04,C406,C408	Bellcore Issue 6	Level I		0.004571	28.00	1.2189	0.127990	218767898.34
1129701690	Capacitor	C410,C416,C418-C421,C425,C43,- C434,C436,C438,C44,C441,C443,- C5,C57,C63,C65	Bellcore Issue 6	Level I		0.004571	18.00	.7836	0.082279	218767898.34
1129701690	Capacitor	C66,C67,C69,C7,C70,C73,C77,C78- C81-C83,C87,C90,C94-C96	Bellcore Issue 6	Level I		0.004571	16.00	.6965	0.073137	218767898.34
1129710090	Capacitor	C107,C116,C349,C398,C400,C411- C412,C413,C415	Bellcore Issue 6	Level I		0.004571	9.00	.3918	0.041139	218767898.34
1129722091	Capacitor	C11,C14,C187,C74,C75	Bellcore Issue 6	Level I		0.004571	5.00	.2177	0.022855	218767898.34
1129710390	Capacitor	C10,C13	Bellcore Issue 6	Level I		0.004571	2.00	.0871	0.009142	218767898.34

AAEON Reliability Prediction Report

Part Number 9697531506
Reference Des
Date 11. 29, 2006
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.40

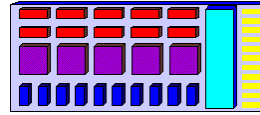


Description Top-level assembly
File Name GENE-5315.RPJ
Time 5:55 下午
Failure Rate 10.500465
MTBF 95,234

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1129701790	Capacitor	C130-C133,C139,C240,C258,C292-,C294,C296,C307,C316,C317,C320-,C326,C337	Bellcore Issue 6	Level I		0.004571	16.00	.6965	0.073137	218767898.34
1129701790	Capacitor	C339,C340,C366,C414	Bellcore Issue 6	Level I		0.004571	4.00	.1741	0.018284	218767898.34
1129747090	Capacitor	C134,C253,C354	Bellcore Issue 6	Level I		0.004571	3.00	.1306	0.013713	218767898.34
1301053040	Semiconductor	D4,D5	Bellcore Issue 6	Level I		0.024157	2.00	.4601	0.048313	41396339.36
1315970110	Semiconductor	U42,U43	Bellcore Issue 6	Level I		0.080522	2.00	1.5337	0.161045	12418901.81
1174522180	Capacitor	CP1-CP5	Bellcore Issue 6	Level I		0.005480	5.00	.2609	0.027400	182484940.92
121230805D	Inductor	FB38	Bellcore Issue 6	Level I		0.002286	1.00	.0218	0.002286	437535796.67
14S5A12503	Integrated Circuit	U23	Bellcore Issue 6	Level I		0.061126	1.00	.5821	0.061126	16359526.04
106B501031	Resistor	RT1,RT2	Bellcore Issue 6	Level I		0.011619	2.00	.2213	0.023239	86062708.88
14S2303700	Integrated Circuit	U22	Bellcore Issue 6	Level I		0.061126	1.00	.5821	0.061126	16359526.04
14S2202600	Integrated Circuit	U25	Bellcore Issue 6	Level I	12.40	0.145700	1.00	1.3876	0.145700	6863412.72
14S2202600	Integrated Circuit	U48	Bellcore Issue 6	Level I		0.061126	1.00	.5821	0.061126	16359526.04
1653222208	Connection	CN1	Bellcore Issue 6	Level I		0.023239	1.00	.2213	0.023239	43031354.44
1301000340	Semiconductor	D15,D18	Bellcore Issue 6	Level I		0.024157	2.00	.4601	0.048313	41396339.36
1311119710	Semiconductor	Q3,Q6	Bellcore Issue 6	Level I		0.024157	2.00	.4601	0.048313	41396339.36
14S5801402	Integrated Circuit	U11	Bellcore Issue 6	Level I		0.040229	1.00	.3831	0.040229	24857399.53
1654262300	Connection	MPCI1	Bellcore Issue 6	Level I		0.072040	1.00	.6861	0.072040	13881082.08
1304001340	Semiconductor	D24	Bellcore Issue 6	Level I		0.005058	1.00	.0482	0.005058	197707633.75
1304101340	Semiconductor	D1	Bellcore Issue 6	Level I		0.005058	1.00	.0482	0.005058	197707633.75
1653217209	Connection	CN2	Bellcore Issue 6	Level I		0.023239	1.00	.2213	0.023239	43031354.44
105A710039	Resistor	R107,R175,R182-R184,R192,R194-,R368-R370,R94	Bellcore Issue 6	Level I		0.002286	11.00	.2394	0.025141	437535796.67
105A701539	Resistor	R285,R305	Bellcore Issue 6	Level I		0.002286	2.00	.0435	0.004571	437535796.67
105A507509	Resistor	R312,R313,R317	Bellcore Issue 6	Level I		0.002286	3.00	.0653	0.006857	437535796.67
105A705629	Resistor	R212,R218,R253,R259,R270,R276-,R374	Bellcore Issue 6	Level I		0.002286	7.00	.1524	0.015999	437535796.67
1124427090	Capacitor	C114,C115,C286,C290	Bellcore Issue 6	Level I		0.004571	4.00	.1741	0.018284	218767898.34
1124433090	Capacitor	C257,C368	Bellcore Issue 6	Level I		0.004571	2.00	.0871	0.009142	218767898.34
1653213207	Connection	CN3	Bellcore Issue 6	Level I		0.023239	1.00	.2213	0.023239	43031354.44
105A549969	Resistor	R139-R146	Bellcore Issue 6	Level I		0.002286	8.00	.1741	0.018284	437535796.67

AAEON Reliability Prediction Report

Part Number 9697531506
Reference Des
Date 11. 29, 2006
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.40



Description Top-level assembly
File Name GENE-5315.RPJ
Time 5:55 下午
Failure Rate 10.500465
MTBF 95,234

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A500139	Resistor	R2,R414	Bellcore Issue 6	Level I		0.002286	2.00	.0435	0.004571	437535796.67
105A501039	Resistor	R162,R166,R167,R179,R180,R188-R189,R55,R56	Bellcore Issue 6	Level I		0.002286	9.00	.1959	0.020570	437535796.67
1653925216	Connection	CFD1	Bellcore Issue 6	Level I		0.029049	1.00	.2766	0.029049	34425083.55
1315992601	Semiconductor	U27	Bellcore Issue 6	Level I		0.161045	1.00	1.5337	0.161045	6209450.90
1124410190	Capacitor	C159-C161,C167,C168	Bellcore Issue 6	Level I		0.004571	5.00	.2177	0.022855	218767898.34
14S3156500	Integrated Circuit	U6	Bellcore Issue 6	Level I		0.061126	1.00	.5821	0.061126	16359526.04
105A702269	Resistor	R148,R149,R242,R255,R5,R6	Bellcore Issue 6	Level I		0.002286	6.00	.1306	0.013713	437535796.67
1124568280	Capacitor	C145	Bellcore Issue 6	Level I		0.004571	1.00	.0435	0.004571	218767898.34
1129722060	Capacitor	C109,C153,C264,C358	Bellcore Issue 6	Level I		0.004571	4.00	.1741	0.018284	218767898.34
14S9820800	Integrated Circuit	U40	Bellcore Issue 6	Level I	9.30	0.118033	1.00	1.1241	0.118033	8472222.36
1124522190	Capacitor	C329,C355	Bellcore Issue 6	Level I		0.004571	2.00	.0871	0.009142	218767898.34
1129610051	Capacitor	C128,C18,C185,C19,C204,C205,C-208,C214,C215,C249,C254,C266,C-283,C289,C3	Bellcore Issue 6	Level I		0.004571	15.00	.6530	0.068566	218767898.34
1129610051	Capacitor	C306,C311,C312,C314,C315,C328-C345,C353,C364,C373,C384,C385-C401,C422	Bellcore Issue 6	Level I		0.004571	14.00	.6094	0.063995	218767898.34
1129610051	Capacitor	C423,C6,C8,C84,C85,C92	Bellcore Issue 6	Level I		0.004571	6.00	.2612	0.027426	218767898.34
1653006203	Connection	JP5	Bellcore Issue 6	Level I		0.006972	1.00	.0664	0.006972	143437848.13
121230603L	Inductor	FB15,FB43	Bellcore Issue 6	Level I		0.002286	2.00	.0435	0.004571	437535796.67
14S4048502	Integrated Circuit	U41,U45	Bellcore Issue 6	Level I		0.061126	2.00	1.1643	0.122253	16359526.04
1050502204	Resistor	R101,R102,R105,R109,R116,R120-R125,R131-R133,R135,R147,R236-R239,R247	Bellcore Issue 6	Level I		0.002286	18.00	.3918	0.041139	437535796.67
1050502204	Resistor	R248-R251,R326,R335,R36,R387,-R86,R88-R90	Bellcore Issue 6	Level I		0.002286	12.00	.2612	0.027426	437535796.67
14S4081110	Integrated Circuit	U18	Bellcore Issue 6	Level I		0.061126	1.00	.5821	0.061126	16359526.04
11E9610190	Capacitor	C226,C241,C273,C276,C284,C409	Bellcore Issue 6	Level I		0.004571	6.00	.2612	0.027426	218767898.34
105A507533	Resistor	R257,R331	Bellcore Issue 6	Level I		0.016440	2.00	.3131	0.032879	60828313.64
16515A0995	Connection	DIMM1	Bellcore Issue 6	Level I		0.116194	1.00	1.1066	0.116194	8606270.89
1315993311	Semiconductor	U31	Bellcore Issue 6	Level I		0.161045	1.00	1.5337	0.161045	6209450.90
11E9501090	Capacitor	C15,C157,C166,C174-C179,C183,-C188,C189,C199,C20,C201,C230,-C234,C293	Bellcore Issue 6	Level I		0.004571	18.00	.7836	0.082279	218767898.34

AAEON Reliability Prediction Report

Part Number 9697531506
Reference Des
Date 11. 29, 2006
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.40



Description Top-level assembly
File Name GENE-5315.RPJ
Time 5:55 下午
Failure Rate 10.500465
MTBF 95,234

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
11E9501090	Capacitor	C12	Bellcore Issue 6	Level I	12.90	0.005821	19.00	1.0532	0.110591	171804355.43
11E9501090	Capacitor	C295,C302,C303,C309,C322-C324-,C327,C338,C341,C361,C417,C424-,C76,C9,C99	Bellcore Issue 6	Level I		0.004571	16.00	.6965	0.073137	218767898.34
1315446310	Semiconductor	U5,U9	Bellcore Issue 6	Level I		0.080522	2.00	1.5337	0.161045	12418901.81
14S5A03200	Integrated Circuit	U36	Bellcore Issue 6	Level I		0.040229	1.00	.3831	0.040229	24857399.53
1189622189	Capacitor	TC3,TC6	Bellcore Issue 6	Level I		0.004571	2.00	.0871	0.009142	218767898.34
14S4888801	Integrated Circuit	U34	Bellcore Issue 6	Level I	11.70	0.077841	1.00	.7413	0.077841	12846671.25
105A514713	Resistor	R258,R332,R333	Bellcore Issue 6	Level I		0.002286	3.00	.0653	0.006857	437535796.67
14S3149103	Integrated Circuit	U13	Bellcore Issue 6	Level I	18.60	0.112292	1.00	1.0694	0.112292	8905354.44
14S2272700	Integrated Circuit	U30	Bellcore Issue 6	Level I		0.061126	1.00	.5821	0.061126	16359526.04
14S2272700	Integrated Circuit	U39	Bellcore Issue 6	Level I	13.30	0.154764	1.00	1.4739	0.154764	6461430.80
1211104769	Inductor	L2,L3	Bellcore Issue 6	Level I		0.086850	2.00	1.6542	0.173700	11514099.91
14S4758300	Integrated Circuit	U37	Bellcore Issue 6	Level I	13.80	0.087174	1.00	.8302	0.087174	11471287.91
123131435B	Miscellaneous	Y3	Bellcore Issue 6	Level I		0.150000	1.00	1.4285	0.150000	6666666.67
1231325058	Miscellaneous	Y4,Y5	Bellcore Issue 6	Level I		0.150000	2.00	2.8570	0.300000	6666666.67
1231324555	Miscellaneous	Y1	Bellcore Issue 6	Level I		0.150000	1.00	1.4285	0.150000	6666666.67
14S3020300	Integrated Circuit	U24	Bellcore Issue 6	Level I	18.20	0.213680	1.00	2.0350	0.213680	4679901.68
1315313800	Semiconductor	U4,U44	Bellcore Issue 6	Level I		0.080522	2.00	1.5337	0.161045	12418901.81
1654040001	Connection	CN12	Bellcore Issue 6	Level I		0.023239	1.00	.2213	0.023239	43031354.44
1654030001	Connection	CN10	Bellcore Issue 6	Level I		0.023239	1.00	.2213	0.023239	43031354.44
14S3128421	Integrated Circuit	U16	Bellcore Issue 6	Level I	8.60	0.112485	1.00	1.0712	0.112485	8890058.82
1189633192	Capacitor	TC2,TC4	Bellcore Issue 6	Level I		0.004571	2.00	.0871	0.009142	218767898.34
14S4871204	Integrated Circuit	U1	Bellcore Issue 6	Level I	13.90	0.087642	1.00	.8347	0.087642	11410032.60
14S5A12506	Integrated Circuit	U28	Bellcore Issue 6	Level I		0.040229	1.00	.3831	0.040229	24857399.53
14S4553600	Integrated Circuit	U3	Bellcore Issue 6	Level I	11.40	0.076582	1.00	.7293	0.076582	13057814.69
14S4700001	Integrated Circuit	U12	Bellcore Issue 6	Level I	15.40	0.094933	1.00	.9041	0.094933	10533792.86
105A733033	Resistor	R77	Bellcore Issue 6	Level I		0.002286	1.00	.0218	0.002286	437535796.67
105A504763	Resistor	R390	Bellcore Issue 6	Level I		0.002286	1.00	.0218	0.002286	437535796.67
121110336L	Inductor	L1	Bellcore Issue 6	Level I		0.002286	1.00	.0218	0.002286	437535796.67
105A501413	Resistor	R412	Bellcore Issue 6	Level I		0.002286	1.00	.0218	0.002286	437535796.67

