

GENE-6315

Reliability Prediction Report (MTBF)

Report NO : 06E070023

12-04-2006

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** GENE-6315

II . **Prediction Date:** Dec. 04, 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: 27.1 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:

- GENE-6315
 - Failure Rate: 12.833757 ppm
 - MTBF: 77,920 Hours

AAEON Reliability Prediction Report

Part Number 9697631506
Reference Des
Date 12. 4, 2006
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 27.10



Description Top-level assembly
File Name GENE-6315.RPJ
Time 4:38 下午
Failure Rate 12.833757
MTBF 77,920

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
GENE-6315	9697631506	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	12.833757	77,920

AAEON Reliability Prediction Report

Part Number 9697631506
Reference Des
Date 12. 4, 2006
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 27.10

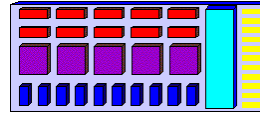


Description Top-level assembly
File Name GENE-6315.RPJ
Time 4:38 下午
Failure Rate 12.833757
MTBF 77,920

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1653002101	Connection	JP7	Bellcore Issue 6	Level I		0.001269	1.00	.0099	0.001269	788056023.77
1653003100	Connection	JP1,JP5	Bellcore Issue 6	Level I		0.001903	2.00	.0297	0.003807	525370682.51
1653003101	Connection	JP4,JP6	Bellcore Issue 6	Level I		0.001903	2.00	.0297	0.003807	525370682.51
1653005100	Connection	CN19	Bellcore Issue 6	Level I		0.003172	1.00	.0247	0.003172	315222409.51
1653005201	Connection	CN16,CN27	Bellcore Issue 6	Level I		0.006345	2.00	.0989	0.012689	157611204.75
1654409103	Connection	CN18	Bellcore Issue 6	Level I		0.025379	1.00	.1978	0.025379	39402801.19
1655303020	Connection	CN28	Bellcore Issue 6	Level I		0.001903	1.00	.0148	0.001903	525370682.51
1655306020	Connection	CN26	Bellcore Issue 6	Level I		0.003807	1.00	.0297	0.003807	262685341.26
1655003010	Connection	CN3	Bellcore Issue 6	Level I		0.001903	1.00	.0148	0.001903	525370682.51
1653130424	Connection	CN11	Bellcore Issue 6	Level I		0.076137	1.00	.5933	0.076137	13134267.06
1656304022	Connection	CN15	Bellcore Issue 6	Level I		0.002538	1.00	.0198	0.002538	394028011.88
1654415305	Connection	CN21	Bellcore Issue 6	Level I		0.025379	1.00	.1978	0.025379	39402801.19
1654606306	Connection	CN20	Bellcore Issue 6	Level I		0.025379	1.00	.1978	0.025379	39402801.19
1653003207	Connection	JP8	Bellcore Issue 6	Level I		0.003807	1.00	.0297	0.003807	262685341.26
1655902030	Connection	CN12	Bellcore Issue 6	Level I	3.60	0.001524	1.00	.0119	0.001524	656076089.78
175011901C	Miscellaneous	CN12	Bellcore Issue 6	Level I		0.900000	1.00	7.0128	0.900000	1111111.11
105A501033	Resistor	R385	Bellcore Issue 6	Level I		0.002362	1.00	.0184	0.002362	423318131.80
105A512103	Resistor	R194,R195,R204	Bellcore Issue 6	Level I		0.002362	3.00	.0552	0.007087	423318131.80
1059700001	Resistor	FB1,FB10-FB21,FB23,FB26,FB3,F- B35-FB37,FB4-FB9,L19,LB1,LB2,R- 191,R206,R255	Bellcore Issue 6	Level I		0.002362	31.00	.5706	0.073231	423318131.80
1059700001	Resistor	R266,R286,R288,R290	Bellcore Issue 6	Level I		0.002362	4.00	.0736	0.009449	423318131.80
1059700101	Resistor	R192,R196,R207,R209	Bellcore Issue 6	Level I		0.002362	4.00	.0736	0.009449	423318131.80
105A501633	Resistor	R91	Bellcore Issue 6	Level I		0.002362	1.00	.0184	0.002362	423318131.80
105A507503	Resistor	R239,R398,R399,R400	Bellcore Issue 6	Level I		0.002362	4.00	.0736	0.009449	423318131.80
105A511503	Resistor	R237	Bellcore Issue 6	Level I		0.002362	1.00	.0184	0.002362	423318131.80
105A518703	Resistor	R238	Bellcore Issue 6	Level I		0.002362	1.00	.0184	0.002362	423318131.80
1211102200	Inductor	FB2	Bellcore Issue 6	Level I		0.089767	1.00	.6995	0.089767	11139950.84
1212306032	Inductor	L24-L29,L44-L46,L51,LB10-LB12,L- B14	Bellcore Issue 6	Level I		0.002362	14.00	.2577	0.033072	423318131.80
1231332721	Miscellaneous	X2	Bellcore Issue 6	Level I		0.150000	1.00	1.1688	0.150000	6666666.67
1121501680	Capacitor	C558,C564,C76	Bellcore Issue 6	Level I		0.004725	3.00	.1104	0.014174	211659065.90

AAEON Reliability Prediction Report

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Date 12. 4, 2006
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Temp. (°C) 27.10



Description Top-level assembly
File Name GENE-6315.RPJ
Time 4:38 下午
Failure Rate 12.833757
MTBF 77,920

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1124422080	Capacitor	C270,C271,C541,C542	Bellcore Issue 6	Level I		0.004725	4.00	.1473	0.018898	211659065.90
1124510180	Capacitor	C315,C316,C566	Bellcore Issue 6	Level I		0.004725	3.00	.1104	0.014174	211659065.90
1124420080	Capacitor	C39	Bellcore Issue 6	Level I		0.004725	1.00	.0368	0.004725	211659065.90
1301005440	Semiconductor	D1-D3,D7,D8	Bellcore Issue 6	Level I		0.025356	5.00	.9879	0.126780	39438472.27
1124568080	Capacitor	C19,C20,C25,C303,C77,C78	Bellcore Issue 6	Level I		0.004725	6.00	.2209	0.028347	211659065.90
1651572990	Connection	DIMM1	Bellcore Issue 6	Level I		0.091364	1.00	.7119	0.091364	10945222.55
1301005442	Semiconductor	D16,D34,D4	Bellcore Issue 6	Level I		0.025356	3.00	.5927	0.076068	39438472.27
1212306033	Inductor	FB24,FB25,FB27-FB29,FB42,FB43,- L22,L23,R511,R512	Bellcore Issue 6	Level I		0.002362	11.00	.2025	0.025985	423318131.80
14S5A01400	Integrated Circuit	U2	Bellcore Issue 6	Level I		0.069150	1.00	.5388	0.069150	14461376.44
14S5A00700	Integrated Circuit	U41	Bellcore Issue 6	Level I		0.042830	1.00	.3337	0.042830	23347909.47
1121647780	Capacitor	C372	Bellcore Issue 6	Level I		0.004725	1.00	.0368	0.004725	211659065.90
1121710090	Capacitor	TC9	Bellcore Issue 6	Level I		0.004725	1.00	.0368	0.004725	211659065.90
1124433180	Capacitor	C450,C453,C456	Bellcore Issue 6	Level I		0.004725	3.00	.1104	0.014174	211659065.90
1121701680	Capacitor	C538	Bellcore Issue 6	Level I		0.004725	1.00	.0368	0.004725	211659065.90
105A502200	Resistor	R179-R186,R265,R42	Bellcore Issue 6	Level I		0.002362	10.00	.1841	0.023623	423318131.80
1540747285	Resistor	RN10-RN17,RN22,RN34,RN35,RN- 54,RN55,RN6-RN9	Bellcore Issue 6	Level I		0.006871	17.00	.9101	0.116804	145542907.61
1540733181	Resistor	RN19,RN3,RN4	Bellcore Issue 6	Level I		0.006871	3.00	.1606	0.020612	145542907.61
105A504733	Resistor	R212,R216,R244,R247,R249,R251- R253	Bellcore Issue 6	Level I		0.002362	7.00	.1288	0.016536	423318131.80
105A501503	Resistor	L15,R120,R123	Bellcore Issue 6	Level I		0.002362	3.00	.0552	0.007087	423318131.80
1129701690	Capacitor	C12,C197,C199,C279-C282,C284,- C285,C287,C288,C348,C350,C352- C363,C365	Bellcore Issue 6	Level I		0.004725	16.00	.5890	0.075593	211659065.90
1129701690	Capacitor	C369,C409-C416,C429,C432,C440- C441,C446-C448,C476,C527	Bellcore Issue 6	Level I		0.004725	18.00	.6626	0.085042	211659065.90
1129710090	Capacitor	C113,C13,C133,C134,C138,C145,- C146,C26,C307,C332,C333,C337,- C338,C40,C43	Bellcore Issue 6	Level I		0.004725	15.00	.5522	0.070869	211659065.90
1129710090	Capacitor	C437,C438,C80,C90,C93	Bellcore Issue 6	Level I		0.004725	5.00	.1841	0.023623	211659065.90
1129722091	Capacitor	C264-C266,C273-C275,C449,C455	Bellcore Issue 6	Level I		0.004725	8.00	.2945	0.037797	211659065.90
1129710390	Capacitor	C27,C31,C32,C356-C361,C401,C4- 06	Bellcore Issue 6	Level I		0.004725	11.00	.4050	0.051970	211659065.90
1129701790	Capacitor	C353,C377,C62-C64,C72-C75	Bellcore Issue 6	Level I		0.004725	9.00	.3313	0.042521	211659065.90

AAEON Reliability Prediction Report

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Date 12. 4, 2006
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 27.10

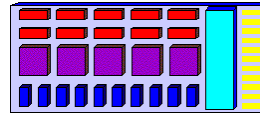


Description Top-level assembly
File Name GENE-6315.RPJ
Time 4:38 下午
Failure Rate 12.833757
MTBF 77,920

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1129747090	Capacitor	C232-C235,C267,C276,C468-C475	Bellcore Issue 6	Level I		0.004725	14.00	.5154	0.066144	211659065.90
14S5A00401	Integrated Circuit	U24,U43,U6	Bellcore Issue 6	Level I		0.044421	3.00	1.0384	0.133262	22512075.38
14S6334603	Integrated Circuit	U48	Bellcore Issue 6	Level I		0.035641	1.00	.2777	0.035641	28057827.90
1301053040	Semiconductor	D13,D35,D36	Bellcore Issue 6	Level I		0.025356	3.00	.5927	0.076068	39438472.27
1310390412	Semiconductor	Q11,Q12,Q26,Q29,Q38,Q4	Bellcore Issue 6	Level I		0.025356	6.00	1.1854	0.152136	39438472.27
1174522180	Capacitor	LN5-LN8	Bellcore Issue 6	Level I		0.005541	4.00	.1727	0.022162	180486528.38
105A524363	Resistor	R203	Bellcore Issue 6	Level I		0.002362	1.00	.0184	0.002362	423318131.80
1129510060	Capacitor	C439,C529,TC12	Bellcore Issue 6	Level I		0.004725	3.00	.1104	0.014174	211659065.90
1304101340	Semiconductor	D10-D12	Bellcore Issue 6	Level I		0.005901	3.00	.1379	0.017703	169461903.65
105A505629	Resistor	R405	Bellcore Issue 6	Level I		0.002362	1.00	.0184	0.002362	423318131.80
105A507509	Resistor	R14,R22,R262-R264,R27,R507	Bellcore Issue 6	Level I		0.002362	7.00	.1288	0.016536	423318131.80
105A501539	Resistor	R211,R214	Bellcore Issue 6	Level I		0.002362	2.00	.0368	0.004725	423318131.80
1124427090	Capacitor	C434,C452	Bellcore Issue 6	Level I		0.004725	2.00	.0736	0.009449	211659065.90
1124547190	Capacitor	C165,C182,C379,C382,C395,C396-C402,C407,C524-C526	Bellcore Issue 6	Level I		0.004725	11.00	.4050	0.051970	211659065.90
105A549969	Resistor	R689-R692	Bellcore Issue 6	Level I		0.002362	4.00	.0736	0.009449	423318131.80
105A501039	Resistor	R147,R157-R161,R177,R229,R387-R390,R391,R404,R6,R60,R62-R64-R668,R669	Bellcore Issue 6	Level I		0.002362	19.00	.3497	0.044884	423318131.80
105A501039	Resistor	R67,R727,R728,R77,R80,R86,R92-R94,R98,R99	Bellcore Issue 6	Level I		0.002362	10.00	.1841	0.023623	423318131.80
1653925216	Connection	CN22	Bellcore Issue 6	Level I		0.031724	1.00	.2472	0.031724	31522240.95
1124427190	Capacitor	C366,C367,C451,C454,C457	Bellcore Issue 6	Level I		0.004725	5.00	.1841	0.023623	211659065.90
105A503309	Resistor	R114,R305-R307,R309,R325,R326-R375,R415,R424-R434,R59,R651,-R655	Bellcore Issue 6	Level I		0.002362	23.00	.4234	0.054333	423318131.80
105A514009	Resistor	R3	Bellcore Issue 6	Level I		0.002362	1.00	.0184	0.002362	423318131.80
1124412090	Capacitor	C18-C121,C126-C128,C140,C141	Bellcore Issue 6	Level I		0.004725	9.00	.3313	0.042521	211659065.90
1752001600	Miscellaneous	FS5,FS6	Bellcore Issue 6	Level I		0.030000	2.00	.4675	0.060000	33333333.33
1124522190	Capacitor	C239-C242,C245-C248,C254-C261	Bellcore Issue 6	Level I		0.004725	16.00	.5890	0.075593	211659065.90
1124468090	Capacitor	C107-C112	Bellcore Issue 6	Level I		0.004725	6.00	.2209	0.028347	211659065.90
1129610051	Capacitor	C100,C101,C104-C106,C11,C115,-C122,C159,C16,C161,C174,C178,-C188,C192	Bellcore Issue 6	Level I		0.004725	15.00	.5522	0.070869	211659065.90

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Description Top-level assembly
File Name GENE-6315.RPJ
Time 4:38 下午
Failure Rate 12.833757
MTBF 77,920

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1129610051	Capacitor	C196,C200,C224-C229,C298,C299-,C3,C300,C301,C334,C349,C351,C-38,C42,C444	Bellcore Issue 6	Level I		0.004725	19.00	.6995	0.089767	211659065.90
1129610051	Capacitor	C445,C537,C547,C555,C556,C569-,C571,C7	Bellcore Issue 6	Level I		0.004725	8.00	.2945	0.037797	211659065.90
1121722090	Capacitor	C278,C283,C286,C551	Bellcore Issue 6	Level I		0.004725	4.00	.1473	0.018898	211659065.90
1653222209	Connection	CN1	Bellcore Issue 6	Level I		0.027917	1.00	.2175	0.027917	35820728.35
1050556269	Resistor	R2	Bellcore Issue 6	Level I		0.002362	1.00	.0184	0.002362	423318131.80
1124412190	Capacitor	C268,C277	Bellcore Issue 6	Level I		0.004725	2.00	.0736	0.009449	211659065.90
1121501690	Capacitor	C102,C103,C114,C123-C125,C129-,C132,C135-C137,C14,C147-C149-,C15,C150,C151	Bellcore Issue 6	Level I		0.004725	20.00	.7363	0.094492	211659065.90
1121501690	Capacitor	C160,C163,C169,C17,C170-C173,-C175,C180,C186,C187,C189-C191-,C193-C195,C21	Bellcore Issue 6	Level I		0.004725	19.00	.6995	0.089767	211659065.90
1121501690	Capacitor	C217-C219,C22,C220-C223,C23,C-230,C231,C236,C249,C262,C269,C-28,C296,C297	Bellcore Issue 6	Level I		0.004725	18.00	.6626	0.085042	211659065.90
1121501690	Capacitor	C312,C335,C336,C343,C4,C41,C45-,C46,C461,C463,C47,C477,C48-C5-3,C534,C535	Bellcore Issue 6	Level I		0.004725	20.00	.7363	0.094492	211659065.90
1121501690	Capacitor	C54,C543-C546,C548,C549,C55,C-550,C552,C554,C557,C56-C61,C65-,C71,C79,C82	Bellcore Issue 6	Level I		0.004725	27.00	.9940	0.127564	211659065.90
1121501690	Capacitor	C83,C94-C97,C99	Bellcore Issue 6	Level I		0.004725	6.00	.2209	0.028347	211659065.90
1129522790	Capacitor	C263,C272	Bellcore Issue 6	Level I		0.004725	2.00	.0736	0.009449	211659065.90
1231325058	Miscellaneous	X6	Bellcore Issue 6	Level I		0.150000	1.00	1.1688	0.150000	6666666.67
1211101864	Inductor	L1	Bellcore Issue 6	Level I		0.089767	1.00	.6995	0.089767	11139950.84
1129622050	Capacitor	C536	Bellcore Issue 6	Level I		0.004725	1.00	.0368	0.004725	211659065.90
105A700003	Resistor	FB30,FB31,FB38-FB41,FB45,L10,L-13,L14,L3,L4,L48-L50,L5-L8,LB3,L-B5,LB7,R228,R344	Bellcore Issue 6	Level I		0.002362	24.00	.4418	0.056695	423318131.80
105A702023	Resistor	L16-L18	Bellcore Issue 6	Level I		0.002362	3.00	.0552	0.007087	423318131.80
105A703303	Resistor	R383,R386	Bellcore Issue 6	Level I		0.002362	2.00	.0368	0.004725	423318131.80
105A704703	Resistor	R260,R261	Bellcore Issue 6	Level I		0.002362	2.00	.0368	0.004725	423318131.80
105A704723	Resistor	R225,R232,R256,R258,R58	Bellcore Issue 6	Level I		0.002362	5.00	.0920	0.011811	423318131.80
105A733003	Resistor	R10,R9	Bellcore Issue 6	Level I		0.002362	2.00	.0368	0.004725	423318131.80

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Temp. (°C) 27.10



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Time 4:38 下午
Failure Rate 12.833757
MTBF 77,920

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A704729	Resistor	R276,R282,R283,R291-R296,R315-,R33,R337,R34,R340-R342,R348,R-35,R350,R351	Bellcore Issue 6	Level I		0.002362	20.00	.3681	0.047246	423318131.80
105A704729	Resistor	R353,R401,R402,R409-R411,R44,-R447-R454,R456,R492-R497,R649-,R650,R654	Bellcore Issue 6	Level I		0.002362	25.00	.4602	0.059057	423318131.80
105A704729	Resistor	R658-R660,R719	Bellcore Issue 6	Level I		0.002362	7.00	.1288	0.016536	423318131.80
105A700009	Resistor	R111,R143,R152,R166,R187,R188-,R19,R200,R21,R213,R219-R221,R-23,R24,R243	Bellcore Issue 6	Level I		0.002362	19.00	.3497	0.044884	423318131.80
105A700009	Resistor	R245,R246,R248,R250,R252,R26,-R268-R270,R275,R28,R29,R301,R-320,R327,R331	Bellcore Issue 6	Level I		0.002362	16.00	.2945	0.037797	423318131.80
105A700009	Resistor	R338,R352,R357,R376,R377,R38,-R395,R4,R40,R407,R41,R417-R423-,R455,R501	Bellcore Issue 6	Level I		0.002362	20.00	.3681	0.047246	423318131.80
105A700009	Resistor	R502,R503,R506,R510,R670,R673-,R677,R681,R685,R701,R702,R72,-R720,R73,R733	Bellcore Issue 6	Level I		0.002362	15.00	.2761	0.035434	423318131.80
105A701069	Resistor	R95	Bellcore Issue 6	Level I		0.014174	7.00	.7731	0.099216	70553021.97
105A710009	Resistor	R311	Bellcore Issue 6	Level I		0.002362	1.00	.0184	0.002362	423318131.80
105A701009	Resistor	R129,R130,R150,R153,R190,R205-,R233	Bellcore Issue 6	Level I		0.002362	7.00	.1288	0.016536	423318131.80
105A702239	Resistor	R54	Bellcore Issue 6	Level I		0.002362	1.00	.0184	0.002362	423318131.80
105A702229	Resistor	R61,R68,R695,R697,R70	Bellcore Issue 6	Level I		0.002362	5.00	.0920	0.011811	423318131.80
105A733009	Resistor	R102,R217,R218,R310,R314,R321-,R322,R416,R435,R45,R46,R693,R-723,R734	Bellcore Issue 6	Level I		0.002362	14.00	.2577	0.033072	423318131.80
105A568003	Resistor	R240	Bellcore Issue 6	Level I		0.002362	1.00	.0184	0.002362	423318131.80
1314043210	Integrated Circuit	Q17	Bellcore Issue 6	Level I		0.069150	1.00	.5388	0.069150	14461376.44
1129610050	Capacitor	C423,C424,C442,C443	Bellcore Issue 6	Level I		0.004725	4.00	.1473	0.018898	211659065.90
14S5A12503	Integrated Circuit	U42	Bellcore Issue 6	Level I		0.044421	1.00	.3461	0.044421	22512075.38
105A568103	Resistor	R13	Bellcore Issue 6	Level I		0.002362	1.00	.0184	0.002362	423318131.80
14S4813905	Integrated Circuit	U47	Bellcore Issue 6	Level I	16.30	0.108839	1.00	.8481	0.108839	9187848.83
1311119710	Semiconductor	Q41	Bellcore Issue 6	Level I		0.025356	1.00	.1976	0.025356	39438472.27
1214309000	Inductor	CH3,CH4	Bellcore Issue 6	Level I		0.002362	2.00	.0368	0.004725	423318131.80
105A710039	Resistor	R329,R330	Bellcore Issue 6	Level I		0.002362	2.00	.0368	0.004725	423318131.80

AAEON Reliability Prediction Report

Part Number 9697631506
Reference Des
Date 12. 4, 2006
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 27.10



Description Top-level assembly
File Name GENE-6315.RPJ
Time 4:38 下午
Failure Rate 12.833757
MTBF 77,920

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A701539	Resistor	R366-R373	Bellcore Issue 6	Level I		0.002362	8.00	.1473	0.018898	423318131.80
105A747009	Resistor	R317-R319,R413	Bellcore Issue 6	Level I		0.002362	4.00	.0736	0.009449	423318131.80
105A705629	Resistor	R56,R57	Bellcore Issue 6	Level I		0.002362	2.00	.0368	0.004725	423318131.80
105A702209	Resistor	R121,R122,R124-R127,R131,R140- R141,R144,R145,R149,R227,R277- R50-R52,R683	Bellcore Issue 6	Level I		0.002362	18.00	.3313	0.042521	423318131.80
105A702209	Resistor	R688	Bellcore Issue 6	Level I		0.002362	1.00	.0184	0.002362	423318131.80
105A715009	Resistor	R16,R25,R30,R47,R48	Bellcore Issue 6	Level I		0.002362	5.00	.0920	0.011811	423318131.80
105A700239	Resistor	R302,R672,R696	Bellcore Issue 6	Level I		0.002362	3.00	.0552	0.007087	423318131.80
105A705129	Resistor	R333	Bellcore Issue 6	Level I		0.002362	1.00	.0184	0.002362	423318131.80
105A702729	Resistor	R354	Bellcore Issue 6	Level I		0.002362	1.00	.0184	0.002362	423318131.80
1540715381	Resistor	RN62,RN63	Bellcore Issue 6	Level I		0.006871	2.00	.1071	0.013742	145542907.61
105A546413	Resistor	R389	Bellcore Issue 6	Level I		0.002362	1.00	.0184	0.002362	423318131.80
165321720A	Connection	CN6	Bellcore Issue 6	Level I		0.021572	1.00	.1681	0.021572	46356236.69
14S4621200	Integrated Circuit	U33	Bellcore Issue 6	Level I		0.044421	1.00	.3461	0.044421	22512075.38
14S2200900	Integrated Circuit	U22	Bellcore Issue 6	Level I		0.069150	1.00	.5388	0.069150	14461376.44
14S3065500	Integrated Circuit	U28	Bellcore Issue 6	Level I	16.30	0.210926	1.00	1.6435	0.210926	4740997.72
14S2705700	Integrated Circuit	U11	Bellcore Issue 6	Level I	28.50	0.452065	1.00	3.5225	0.452065	2212070.87
14S2705700	Integrated Circuit	U12	Bellcore Issue 6	Level I	23.70	0.337226	1.00	2.6276	0.337226	2965373.65
1314158210	Integrated Circuit	U10	Bellcore Issue 6	Level I	25.90	0.386120	1.00	3.0086	0.386120	2589866.28
1315230111	Semiconductor	Q25,Q27	Bellcore Issue 6	Level I		0.000000	2.00	.0000	0.000000	.00
11E9501090	Capacitor	C10,C116,C152-C158,C162,C164,- C167,C176,C177,C179,C181,C184- C2,C202-C216	Bellcore Issue 6	Level I		0.004725	33.00	1.2149	0.155911	211659065.90
11E9501090	Capacitor	C33,C330,C34,C37,C6,C84-C89,C- 91,C98	Bellcore Issue 6	Level I		0.004725	13.00	.4786	0.061420	211659065.90
11C1501080	Capacitor	C237,C238,C243,C244,C250-C253- C362,C364,C368,C370,C388,C393- C540,C565	Bellcore Issue 6	Level I		0.001575	16.00	.1963	0.025198	634977197.70
1315446310	Semiconductor	Q34	Bellcore Issue 6	Level I	19.10	0.140593	1.00	1.0955	0.140593	7112712.55
1315446310	Semiconductor	Q37	Bellcore Issue 6	Level I		0.084520	1.00	.6586	0.084520	11831541.68
14S4397704	Integrated Circuit	U30	Bellcore Issue 6	Level I	15.00	0.101677	1.00	.7923	0.101677	9835056.93
1314108610	Integrated Circuit	Q7	Bellcore Issue 6	Level I	28.60	0.454792	1.00	3.5437	0.454792	2198805.57
14S4758300	Integrated Circuit	U23	Bellcore Issue 6	Level I		0.044421	1.00	.3461	0.044421	22512075.38

AAEON Reliability Prediction Report

Part Number 9697631506
Reference Des
Date 12. 4, 2006
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 27.10



Description Top-level assembly
File Name GENE-6315.RPJ
Time 4:38 下午
Failure Rate 12.833757
MTBF 77,920

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
14S3162202	Integrated Circuit	U35	Bellcore Issue 6	Level I		0.069150	1.00	.5388	0.069150	14461376.44
123131435B	Miscellaneous	X3	Bellcore Issue 6	Level I		0.150000	1.00	1.1688	0.150000	6666666.67
14S4268602	Integrated Circuit	U3	Bellcore Issue 6	Level I	19.90	0.131039	1.00	1.0210	0.131039	7631339.56
118961018A	Capacitor	C465,C467,C539,CTC13-TC15,TC2-TC4,TC8	Bellcore Issue 6	Level I		0.004725	10.00	.3681	0.047246	211659065.90
14S4053300	Integrated Circuit	U1	Bellcore Issue 6	Level I	19.70	0.129708	1.00	1.0107	0.129708	7709595.67
14S3917900	Integrated Circuit	Q10	Bellcore Issue 6	Level I		0.069150	1.00	.5388	0.069150	14461376.44
14S3424100	Integrated Circuit	U9	Bellcore Issue 6	Level I	29.60	0.211760	1.00	1.6500	0.211760	4722319.18
165320520C	Connection	CN24,CN25,CN9	Bellcore Issue 6	Level I		0.006345	3.00	.1483	0.019034	157611204.75
165321320E	Connection	CN10	Bellcore Issue 6	Level I		0.016496	1.00	.1285	0.016496	60619694.14
1540700082	Resistor	LN2, LN4, RN23, RN25, RN52, RN53	Bellcore Issue 6	Level I		0.006871	6.00	.3212	0.041225	145542907.61
121110336D	Inductor	L2	Bellcore Issue 6	Level I	20.10	0.129180	1.00	1.0066	0.129180	7741109.86
1315441014	Semiconductor	Q8	Bellcore Issue 6	Level I	21.10	0.147770	1.00	1.1514	0.147770	6767269.70
1315441014	Semiconductor	Q9	Bellcore Issue 6	Level I	21.30	0.148503	1.00	1.1571	0.148503	6733891.27
1315441014	Semiconductor	Q5	Bellcore Issue 6	Level I	31.10	0.187836	1.00	1.4636	0.187836	5323798.48
1315441014	Semiconductor	Q6	Bellcore Issue 6	Level I	31.10	0.187836	1.00	1.4636	0.187836	5323798.48
1315970211	Semiconductor	U38,U39	Bellcore Issue 6	Level I		0.084520	2.00	1.3171	0.169040	11831541.68
1654020001	Connection	CN5	Bellcore Issue 6	Level I		0.012689	1.00	.0989	0.012689	78805602.38
1654040001	Connection	CN4	Bellcore Issue 6	Level I		0.025379	1.00	.1978	0.025379	39402801.19
1654030001	Connection	CN29,CN31	Bellcore Issue 6	Level I		0.019034	2.00	.2966	0.038068	52537068.25
131411171C	Integrated Circuit	Q14	Bellcore Issue 6	Level I	21.40	0.292136	1.00	2.2763	0.292136	3423063.49
14S3128421	Integrated Circuit	U16	Bellcore Issue 6	Level I		0.069150	1.00	.5388	0.069150	14461376.44
1189622850	Capacitor	TC5-TC7	Bellcore Issue 6	Level I		0.004725	3.00	.1104	0.014174	211659065.90
14S5A12506	Integrated Circuit	U46	Bellcore Issue 6	Level I		0.044421	1.00	.3461	0.044421	22512075.38
1124420090	Capacitor	C294,C308	Bellcore Issue 6	Level I		0.004725	2.00	.0736	0.009449	211659065.90
1121533480	Capacitor	C521-C523,C567,C568	Bellcore Issue 6	Level I		0.004725	5.00	.1841	0.023623	211659065.90
1231324050	Miscellaneous	Y1	Bellcore Issue 6	Level I		0.150000	1.00	1.1688	0.150000	6666666.67
105A510213	Resistor	R328	Bellcore Issue 6	Level I		0.002362	1.00	.0184	0.002362	423318131.80
1124427080	Capacitor	C304	Bellcore Issue 6	Level I		0.004725	1.00	.0368	0.004725	211659065.90
105A705623	Resistor	R680	Bellcore Issue 6	Level I		0.002362	1.00	.0184	0.002362	423318131.80
1212308056	Inductor	FB32,FB33	Bellcore Issue 6	Level I		0.002362	2.00	.0368	0.004725	423318131.80

