

GENE-6350

Reliability Prediction Report (MTBF)

Report NO : 05E070004

01-24-2005

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** GENE-6350-A02

II . **Prediction Date:** Jan.24, 2005

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: 26.6 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.

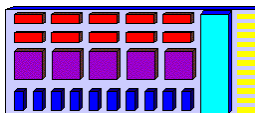
VIII. Prediction Result:

- Failure Rate: 14.323656 ppm
- MTBF: 69,815 Hours

IX. Prediction Table

Standard Reliability Prediction Report

Part Number GENE-6350-A02
Reference Des
Date 一月 24, 2005
Environment GF, GU - Ground Fixed,
Temperature 26.60

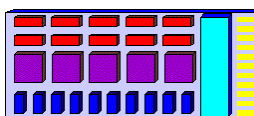


Description Top-level assembly
File Name GENE-6350-A02.RPJ
Time 2:11 下午
Failure Rate 14.323656
MTBF 69,815

Assembly Name	Part Number	Ref Des	Qty	Failure Rate	MTBF
System	GENE-6350-A02		1.00	14.323656	69,815

Standard Reliability Prediction Report

Part Number GENE-6350-A02
Reference Des
Date 一月 24, 2005
Environment GF, GU - Ground Fixed,
Temperature 26.60

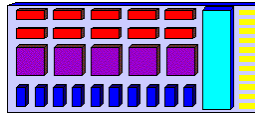


Description Top-level assembly
File Name GENE-6350-A02.RPJ
Time 2:11 下午
Failure Rate 14.323656
MTBF 69,815

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1655306020	Connection	CN16	0.092746	1.00	0.092746
1654606306	Connection	CN19	0.003710	1.00	0.003710
1653003101	Connection	JP1,JP6	0.001855	2.00	0.003710
1653003201	Connection	JP2,JP3,JP5	0.003710	3.00	0.011130
1653003201	Connection	JP4*2	0.003710	2.00	0.007420
1655003023	Connection	FAN2	0.001855	1.00	0.001855
1750119011	Connection	BAT1	0.030915	1.00	0.030915
1653005201	Connection	CN13	0.006183	1.00	0.006183
1653005201	Connection	CN10,CN22,CN8	0.006183	3.00	0.018549
1652512202	Connection	CN15	0.007420	1.00	0.007420
1656304020	Connection	CN17	0.002473	1.00	0.002473
1654415305	Connection	CN20	0.009275	1.00	0.009275
1654409103	Connection	CN21	0.005565	1.00	0.005565
1653900034	Connection	CN23	0.001237	1.00	0.001237
1653006101	Connection	CN1	0.003710	1.00	0.003710
14S6202002	Integrated Circuit	U6	0.157505	1.00	0.157505
1231325050	Miscellaneous	Y3	0.150000	1.00	0.150000
105A520003	Resistor	R72	0.002340	1.00	0.002340
105A720033	Resistor	R100	0.002340	1.00	0.002340
105A703903	Resistor	R138,R139	0.002340	2.00	0.004679
105A505603	Resistor	R141,R144,R242	0.002340	3.00	0.007019
105A506803	Resistor	R149	0.002340	1.00	0.002340
105A700203	Resistor	R161	0.002340	1.00	0.002340
105A549963	Resistor	R174	0.002340	1.00	0.002340
14S4048500	Integrated Circuit	U30,U31	0.066696	2.00	0.133392
105A501533	Resistor	R179,R188	0.002340	2.00	0.004679
105A736003	Resistor	R199,R214,R228	0.002340	3.00	0.007019
105A511313	Resistor	R203,R215	0.002340	2.00	0.004679
1059700001	Resistor	R207,R208,R248- ,R249,R396	0.002340	5.00	0.011698
105A500333	Resistor	R217,R303,R386	0.002340	3.00	0.007019
105A547003	Resistor	R262	0.002340	1.00	0.002340
105A505103	Resistor	R304,R305,R307- ,R308	0.002340	4.00	0.009358
105A502233	Resistor	R322	0.002340	1.00	0.002340
105A501823	Resistor	R325	0.002340	1.00	0.002340
14S4823500	Integrated Circuit	U2	0.196025	1.00	0.196025
1300414841	Semiconductor	D2	0.024999	1.00	0.024999
1300581740	Semiconductor	D4,D5	0.024999	2.00	0.049997
1212306031	Inductor	FB23-FB26,FB28,- FB30-FB34,FB58- -FB60	0.002340	16.00	0.037433
1752001600	Miscellaneous	F1,F2	0.030000	2.00	0.060000
1211101660	Inductor	L5	0.002189	1.00	0.002189
1654262300	Connection	MPCI1	0.076670	1.00	0.076670
1213103008	Inductor	NL1-NL7	0.002340	7.00	0.016377
1311119710	Semiconductor	Q4	0.024999	1.00	0.024999
1315993310	Semiconductor	U35	0.166657	1.00	0.166657
14S5A70000	Integrated Circuit	U39	0.066696	1.00	0.066696
14S2652000	Integrated Circuit	U19	0.420466	1.00	0.420466
14S4025600	Integrated Circuit	U23	0.500487	1.00	0.500487

Standard Reliability Prediction Report

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 Date 一月 24, 2005
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 Temperature 26.60

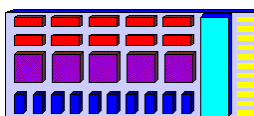


Description Top-level assembly
 File Name GENE-6350-A02.RPJ
 Time 2:11 下午
 Failure Rate 14.323656
 MTBF 69,815

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
14S5A00402	Integrated Circuit	Q30,Q7	0.066696	2.00	0.133392
1301005440	Semiconductor	Q12	0.051530	1.00	0.051530
1301005440	Semiconductor	Q15,Q28	0.024999	2.00	0.049997
1315488010	Integrated Circuit	U4	0.227941	1.00	0.227941
1315488010	Integrated Circuit	U5	0.066696	1.00	0.066696
1301005442	Semiconductor	Q33	0.024999	1.00	0.024999
1540722084	Resistor	RP10,RP12,RP14- ,RP16,RP22,RP24- ,RP26,RP29,RP31- ,RP40,RP41,RP6	0.006717	12.00	0.080609
1540722084	Resistor	RP7,RP75,RP76,- RP77,RP78,RP8,- RP80,RP9	0.006717	8.00	0.053739
1540756080	Resistor	RP18	0.006717	1.00	0.006717
1540733082	Resistor	RP45,RP46,RP61- ,RP63-RP74,RP8- 3-RP89	0.006717	21.00	0.141066
15407222A0	Resistor	RP52,RP56	0.008397	2.00	0.016794
105A515009	Resistor	R1,R105,R128,R- 129,R131,R133,R- 134,R150,R16,R2- 72,R3,R309	0.002340	12.00	0.028074
105A501039	Resistor	R10,R146,R157,- R162,R167,R183- ,R187,R189,R24,- R241,R276,R278	0.002340	12.00	0.028074
105A501039	Resistor	R284,R288,R292- ,R33,R388,R389,- R42,R43,R50,R60- ,R61,R62,R68	0.002340	13.00	0.030414
105A501039	Resistor	R69,R73,R89,R9	0.002340	4.00	0.009358
105A500139	Resistor	R109,R114,R115- ,R130,R132,R14,- R168,R17,R178,- R19,R212,R22	0.002340	12.00	0.028074
105A500139	Resistor	R222,R232,R240- ,R256,R271,R282- ,R295,R337,R349- ,R35,R356,R357	0.002340	12.00	0.028074
105A500139	Resistor	R390,R47,R80,R- 85,R86	0.002340	5.00	0.011698
105A702209	Resistor	R106-R108,R117- ,R120,R121,R191- ,R192,R20,R21,R- 26,R264,R266	0.002340	13.00	0.030414
105A702209	Resistor	R267-R269,R273- ,R274,R283,R299- ,R306,R31,R315,- R335,R338,R369	0.002340	13.00	0.030414
105A702209	Resistor	R38,R392,R48,R- 49,R51,R52-R55,- R57-R59,R64-R66- ,R77,R81-R83	0.002340	19.00	0.044451
105A702209	Resistor	R98,R99	0.002340	2.00	0.004679
1653017201	Connection	CN6	0.021023	1.00	0.021023

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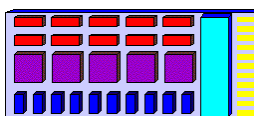


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MTBF 69,815

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1653010203	Connection	CN11	0.012366	1.00	0.012366
1654040000	Connection	CN18	0.024732	1.00	0.024732
1129747650	Capacitor	C10,C41,C6	0.002751	3.00	0.008252
1129701690	Capacitor	C100,C102,C103- C106-C109,C111- C114,C116,C118- C119,C12,C121	0.002566	16.00	0.041049
1129701690	Capacitor	C122-C124,C132- C134,C136,C137- C141,C15,C153,- C154,C156,C163	0.002566	13.00	0.033352
1129701690	Capacitor	C169,C172,C174- C180,C183,C184- C188,C20,C203,- C21,C223,C23,C- 24	0.002566	18.00	0.046180
1129701690	Capacitor	C244-C246,C25,- C257,C26,C266,- C27,C279,C28,C- 282,C29,C294,C2- 97	0.002566	14.00	0.035918
1129701690	Capacitor	C30,C301,C305,- C32,C332-C335,- C339,C341,C343- C35,C356-C358,- C36	0.002566	16.00	0.041049
1129701690	Capacitor	C370-C373,C376- C381,C389,C391- C394,C397-C399- C402-C404,C410	0.002566	20.00	0.051311
1129701690	Capacitor	C412,C414,C415- C417,C419,C42,- C421-C424,C428- C429,C432-C436	0.002566	17.00	0.043614
1129701690	Capacitor	C44,C440,C444-- C449,C452,C453- C458,C459,C463- C464,C468-C472	0.002566	19.00	0.048745
1129701690	Capacitor	C476,C479,C483- C484,C49,C493,- C50,C504-C506,- C51,C516,C517,- C52	0.002566	14.00	0.035918
1129701690	Capacitor	C54,C60-C62,C65- C68-C72,C84-C8- 8,C9,C91-C93,C9- 5,C96	0.002566	21.00	0.053877
1124547190	Capacitor	C167,C168,C18,- C187,C202,C205- C218,C222,C230- C261	0.001071	10.00	0.010713
1124522080	Capacitor	C258,C259,C57,- C58	0.001071	4.00	0.004285
1124527180	Capacitor	C125,C138,C507	0.001071	3.00	0.003214
1129610260	Capacitor	C135	0.000720	1.00	0.000720

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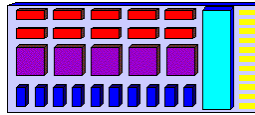


Description Top-level assembly
File Name GENE-6350-A02.RPJ
Time 2:11 下午
Failure Rate 14.323656
MTBF 69,815

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1189615183	Capacitor	C171	0.006725	1.00	0.006725
1189615183	Capacitor	C199,C326,C327	0.005089	3.00	0.015267
1189615183	Capacitor	C170	0.007171	1.00	0.007171
1189615183	Capacitor	C173	0.007407	1.00	0.007407
1122722890	Capacitor	C216	0.001614	1.00	0.001614
14S4862300	Integrated Circuit	U13	0.184002	1.00	0.184002
14S2201200	Integrated Circuit	U16	0.316904	1.00	0.316904
14S2201200	Integrated Circuit	U17	0.265735	1.00	0.265735
14S4021310	Integrated Circuit	U36	0.236904	1.00	0.236904
14S4021310	Integrated Circuit	U37	0.210926	1.00	0.210926
14S4021310	Integrated Circuit	U29	0.177929	1.00	0.177929
14S4021310	Integrated Circuit	U26	0.161087	1.00	0.161087
14S4369700	Integrated Circuit	U27	0.116441	1.00	0.116441
14S2303700	Integrated Circuit	U28	0.066696	1.00	0.066696
14S4163200	Integrated Circuit	U34	0.184903	1.00	0.184903
14S3128420	Integrated Circuit	U38	0.066696	1.00	0.066696
1231332721	Miscellaneous	Y1	0.150000	1.00	0.150000
1231324551	Miscellaneous	Y2	0.150000	1.00	0.150000
1231314350	Miscellaneous	Y4,Y5	0.150000	2.00	0.300000
105A551003	Resistor	R321,R41	0.002340	2.00	0.004679
105A700009	Resistor	R184,R193,R237- ,R252,R255,R257- ,R260,R285,R287- ,R294,R302,R312	0.002340	12.00	0.028074
105A700009	Resistor	R394,R44,R45,R- 56,R70,R75,R84,- R90,R92	0.002340	9.00	0.021056
105A510003	Resistor	R219,R393,R67	0.002340	3.00	0.007019
105A716003	Resistor	R95	0.002340	1.00	0.002340
105A507509	Resistor	R103,R110,R151- ,R18,R270,R318,- R350,R353-R355	0.002340	10.00	0.023395
105A730009	Resistor	R127,R135,R154	0.002340	3.00	0.007019
105A501403	Resistor	R140	0.002340	1.00	0.002340
105A549903	Resistor	R142	0.002340	1.00	0.002340
105A511103	Resistor	R143	0.002340	1.00	0.002340
105A701053	Resistor	R155,R158	0.002340	2.00	0.004679
105A510033	Resistor	R170,R171	0.002340	2.00	0.004679
105A519103	Resistor	R173	0.002340	1.00	0.002340
105A504733	Resistor	R175	0.002340	1.00	0.002340
14S3162201	Integrated Circuit	U32	0.176061	1.00	0.176061
105A502823	Resistor	R198,R216	0.002340	2.00	0.004679
105A502723	Resistor	R202,R206,R210- ,R221,R235,R239	0.002340	6.00	0.014037
105A501523	Resistor	R204,R387	0.002340	2.00	0.004679
105A516913	Resistor	R205,R317	0.002340	2.00	0.004679
105S507523	Resistor	R209	0.002340	1.00	0.002340
105A705123	Resistor	R225	0.002340	1.00	0.002340
105A510213	Resistor	R227	0.002340	1.00	0.002340
105A516513	Resistor	R290	0.002340	1.00	0.002340
105A571563	Resistor	R316	0.002340	1.00	0.002340
105A546413	Resistor	R319	0.002340	1.00	0.002340

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Environment GF, GU - Ground Fixed,
Temperature 26.60

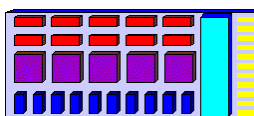


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File Name GENE-6350-A02.RPJ
Time 2:11 下午
Failure Rate 14.323656
MTBF 69,815

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
105A733009	Resistor	R324,R351	0.002340	2.00	0.004679
105A532413	Resistor	R391	0.002340	1.00	0.002340
14S3065001	Integrated Circuit	U1	0.127084	1.00	0.127084
14S4040001	Integrated Circuit	U3	0.185809	1.00	0.185809
14S6334610	Integrated Circuit	U7	0.034376	1.00	0.034376
14S1035800	Integrated Circuit	U20	0.417925	1.00	0.417925
14S1035800	Integrated Circuit	U8	0.066696	1.00	0.066696
14S3031100	Integrated Circuit	U9	0.135789	1.00	0.135789
14S4810000	Integrated Circuit	U10	0.140689	1.00	0.140689
14S4378100	Integrated Circuit	U11	0.098514	1.00	0.098514
14S5500700	Integrated Circuit	U12	0.153006	1.00	0.153006
1189633081	Capacitor	C241	0.005578	1.00	0.005578
1129710090	Capacitor	C383,C384	0.001071	2.00	0.002143
1129747090	Capacitor	C513-C515	0.001071	3.00	0.003214
1304101340	Semiconductor	D3	0.166657	1.00	0.166657
121230603J	Inductor	FB1,FB10-FB19,- FB2,FB27,FB29,- FB3-FB5,FB52-F- B57,FB6,FB61-F- B69,FB7	0.002340	34.00	0.079544
121230603J	Inductor	FB8,FB9	0.002340	2.00	0.004679
1212308054	Inductor	FB35,FB36,FB39	0.002340	3.00	0.007019
1212306035	Inductor	FB37,FB38,FB40-- FB51	0.002340	14.00	0.032754
1214309000	Inductor	L1-L4	0.002340	4.00	0.009358
1211103362	Inductor	L6	0.002340	1.00	0.002340
1211104760	Inductor	L7	0.002340	1.00	0.002340
1174522180	Capacitor	NC1	0.001071	1.00	0.001071
1315700212	Semiconductor	Q18,Q19,Q2,Q23- ,Q6	0.083329	5.00	0.416644
1310390411	Semiconductor	Q24-Q25,Q3,Q8	0.024999	4.00	0.099994
1310390411	Semiconductor	Q27	0.044771	1.00	0.044771
1310390411	Semiconductor	Q26	0.044003	1.00	0.044003
1314043113	Integrated Circuit	Q5	0.066696	1.00	0.066696
1314111711	Integrated Circuit	Q10	0.066696	1.00	0.066696
14S3880000	Integrated Circuit	Q11	0.066696	1.00	0.066696
1301005441	Semiconductor	Q17,Q2,Q31,Q32	0.024999	4.00	0.099994
14S5A01400	Integrated Circuit	Q21	0.066696	1.00	0.066696
1540747282	Resistor	RP1,RP27,RP3,R- P5,RP53,RP57,R- P62,RP81,RP82,- RP90-RP94	0.006717	14.00	0.094044
1540710380	Resistor	RP2,RP21,RP4,R- P47-RP50,EP79	0.006717	8.00	0.053739
15407560A0	Resistor	RP11,RP13,RP15- ,RP17,RP19,RP23- ,RP25,RP28,RP30- ,RP32,RP42,RP44	0.008397	12.00	0.100761
1540782280	Resistor	RP20	0.006717	1.00	0.006717
1540715180	Resistor	RP43,RP54,RP55	0.006717	3.00	0.020152
1540701380	Resistor	RP51	0.006717	1.00	0.006717
1540715380	Resistor	RP58-RP60	0.006717	3.00	0.020152

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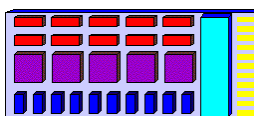


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File Name GENE-6350-A02.RPJ
Time 2:11 下午
Failure Rate 14.323656
MTBF 69,815

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
106B701031	Resistor	RT1,RT2	0.012366	2.00	0.024732
105A704729	Resistor	R101,R102,R11,- R112,R113,R118- R119,R122-R126- R136,R137,R145	0.002340	15.00	0.035093
105A704729	Resistor	R147,R152,R153- R159,R160,R164- R166,R172,R176- R181,R185,R186	0.002340	13.00	0.030414
105A704729	Resistor	R190,R194,R196- R2,R200,R213,R- 220,R226,R230,R- 231,R234,R243	0.002340	12.00	0.028074
105A704729	Resistor	R246,R247,R25,- R250,R251,R253- R254,R258,R259- R261,R27,R28,R- 280	0.002340	13.00	0.030414
105A704729	Resistor	R281,R286,R289- R298,R30,R300,- R301,R310,R313- R32,R329,R331	0.002340	12.00	0.028074
105A704729	Resistor	R332,R334,R336- R339,R34,R340,- R342,R343,R346- R347,R348,R352	0.002340	12.00	0.028074
105A704729	Resistor	R358,R359,R361- R362,R364,R366- R368,R37,R370,- R371,R381,R39,- R4	0.002340	13.00	0.030414
105A704729	Resistor	R6,R71,R76,R78,- R79,R8,R93,R94,- R96,R97	0.002340	10.00	0.023395
105A505623	Resistor	R12,R244,R46,R- 74	0.002340	4.00	0.009358
105A503309	Resistor	R13,R195,R23,R- 245,R296,R323,R- 36,R91	0.002340	8.00	0.018716
105A702229	Resistor	R15,R201,R320,- R345	0.002340	4.00	0.009358
105A508223	Resistor	R29	0.002340	1.00	0.002340
1750220322	Miscellaneous	BAT1	0.900000	1.00	0.900000
1759100006	Miscellaneous	BU1	0.150000	1.00	0.150000
1653007204	Connection	CN4,CN5	0.008656	2.00	0.017313
1653022202	Connection	CN7	0.027206	1.00	0.027206
1653013202	Connection	CN9	0.016076	1.00	0.016076
1653004202	Connection	CN12	0.004946	1.00	0.004946
1653925216	Connection	CN23	0.030915	1.00	0.030915
1129701080	Capacitor	C1,C157,C160,C- 165,C166,C185,C- 186,C2,C204,C20- 6,C210,C217,C22	0.002751	13.00	0.035760

Standard Reliability Prediction Report

Part Number GENE-6350-A02
Reference Des
Date 一月 24, 2005
Environment GF, GU - Ground Fixed,
Temperature 26.60

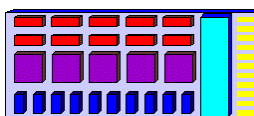


Description Top-level assembly
File Name GENE-6350-A02.RPJ
Time 2:11 下午
Failure Rate 14.323656
MTBF 69,815

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1129701080	Capacitor	C224,C229,C234- ,C239,C247,C250- ,C255,C265,C268- ,C271,C285,C295	0.002751	12.00	0.033009
1129701080	Capacitor	C298,C3,C307,C- 31,C321-C324,C3- 42,C345,C346,C3- 47,C350,C366,C3- 68	0.002751	15.00	0.041261
1129701080	Capacitor	C369,C37,C38,C- 385,C39,C4,C401- ,C407,C409,C411- ,C416,C420,C426	0.002751	13.00	0.035760
1129701080	Capacitor	C427,C43,C430,- C437,C438,C443- ,C462,C477,C478- ,C48,C480,C481	0.002751	12.00	0.033009
1129701080	Capacitor	C486,C487,C495- ,C496,C5,C502,C- 503,C56,C64,C67- ,C73,C77,C80,C94	0.002751	14.00	0.038510
1124405090	Capacitor	C63,C7,C8,C90	0.001071	4.00	0.004285
1129701790	Capacitor	C16,C181,C182,- C215,C232,C240- ,C256,C278,C280- ,C336-C338,C361	0.001614	13.00	0.020985
1129701790	Capacitor	C362-C364,C40,- C45-C47,C55,C74- ,C75	0.001614	10.00	0.016143
1189622185	Capacitor	C243	0.000836	1.00	0.000836
1189622185	Capacitor	C242	0.000836	1.00	0.000836
1189622185	Capacitor	C155	0.000711	1.00	0.000711
1189622185	Capacitor	C17	0.000813	1.00	0.000813
1129710050	Capacitor	C104,C105,C110- ,C129,C133,C164- ,C189,C191,C200- ,C201,C213,C214	0.002751	12.00	0.033009
1129710050	Capacitor	C233,C248,C249- ,C272-276,C283,- C290-C292,C308- ,C309,C316,C317	0.002751	16.00	0.044012
1129710050	Capacitor	C320,C325,C331- ,C34,C360,C365,- C406,C413,C439- ,C442,C454,C499	0.002751	12.00	0.033009
1129710050	Capacitor	C501,C522,C53,- C59,C82	0.002751	5.00	0.013754
1129722090	Capacitor	C117,C148,C328- ,C494,C518,C519- ,C520,C521,C89	0.005523	9.00	0.049705
1129710390	Capacitor	C348,C349,C374- ,C375,C386,C387- ,C393,C395,C396- ,C408,C418,C425	0.001071	12.00	0.012856
1129710390	Capacitor	C498,C97	0.001071	2.00	0.002143

Standard Reliability Prediction Report

Part Number GENE-6350-A02
Reference Des
Date 一月 24, 2005
Environment GF, GU - Ground Fixed,
Temperature 26.60



Description Top-level assembly
File Name GENE-6350-A02.RPJ
Time 2:11 下午
Failure Rate 14.323656
MTBF 69,815

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1124433080	Capacitor	C127,C130,C131- ,C139,C140	0.001071	5.00	0.005357
1124410190	Capacitor	C143,C158,C161- ,C211,C228,C231- ,C251,C277,C293- ,C475,C509	0.001071	11.00	0.011784
1124612180	Capacitor	C151,C152	0.001071	2.00	0.002143
1121722780	Capacitor	C192-C197,C226- ,C227,C236,C238- ,C254,C267,C284- ,C287-C289,C299	0.002566	17.00	0.043614
1121722780	Capacitor	C300,C310-C315	0.002566	7.00	0.017959
1124582280	Capacitor	C219	0.001071	1.00	0.001071
14S3006000	Integrated Circuit	U14	0.252552	1.00	0.252552
14S4070610	Integrated Circuit	U15	0.212299	1.00	0.212299
1314880510	Semiconductor	U18	0.166509	1.00	0.166509
1315441011	Semiconductor	U21,U24	0.051562	2.00	0.103125
1314331010	Integrated Circuit	U22	0.066696	1.00	0.066696
14S5701411	Integrated Circuit	U25	0.066696	1.00	0.066696
105A701009	Resistor	R224,R344,R63	0.002340	3.00	0.007019
1651203291	Connection	U6	0.038953	1.00	0.038953
1315991610	Semiconductor	Q13	0.469830	1.00	0.469830
1315991610	Semiconductor	Q14	0.340270	1.00	0.340270
1315991610	Semiconductor	Q16	0.488650	1.00	0.488650
1300038540	Semiconductor	Q20	0.024999	1.00	0.024999
1189633181	Capacitor	C390	0.008704	1.00	0.008704
1189633181	Capacitor	C304,C318,C319- ,C66	0.005089	4.00	0.020356
1315942410	Semiconductor	U33	0.135727	1.00	0.135727
1653005202	Connection	CN14,CN2,CN3	0.006183	3.00	0.018549