

GENE-9155

Reliability Prediction Report

(MTBF)

Report NO : 09E070016

04-08-2009

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** GENE-9155

II . **Prediction Date:** Apr. 8th, 2009

III . **Prediction Site:** AAEON Q.E. Dept.

IV . **Predicted by:** Jessica Chou

V . **Equipment:** Relex Ver.7.3 Visual Reliability Software

VI. Simulation Environment:

- Temperature: 25.1 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-9155:
Failure Rate: 12.639133 ppm
MTBF: 79,119 Hours

AAEON Reliability Prediction Report

Part Number 969791550B-DIP
Reference Des
Date 04. 7, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.10

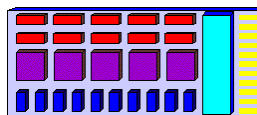


Description Top-level assembly
File Name GENE-9155.RPJ
Time 7:38 下午
Failure Rate 12.639133
MTBF 79,119

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
GENE-9155	969791550B-DIP	Telcordia	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	12.639133	79,119

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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1653925216	Connection	CFD1	Telcordia Issue 1	Level I		0.028598	1.00	.2263	0.028598	34968071.08
121230805Z	Inductor	L2,L4	Telcordia Issue 1	Level I		0.002272	2.00	.0360	0.004544	440111121.05
16540E0201	Connection	CN2	Telcordia Issue 1	Level I		0.080073	1.00	.6335	0.080073	12488596.81
1653222208	Connection	CN5	Telcordia Issue 1	Level I		0.025166	1.00	.1991	0.025166	39736444.41
1121701790	Capacitor	C1,C289,C290,C293, C294,C382,C430, C442,C444,C445, C467,C533,C534, C537,C538,C544, C545,C548,C549	Telcordia Issue 1	Level I		0.004544	19.00	.6831	0.086342	220055560.52
1124522290	Capacitor	C3,C495,C505,C506	Telcordia Issue 1	Level I		0.004544	4.00	.1438	0.018177	220055560.52
1129701690	Capacitor	C100,C101,C102, C104,C105,C108, C109,C111,C112, C113,C114,C115, C116,C117,C119, C120,C121,C122, C123,C124,C125, C127,C128,C129, C130,C131,C132, C133,C134,C135, C136,C137,C138, C139,C140,C141, C142,C143,C144,	Telcordia Issue 1	Level I		0.004544	241.00	8.6650	1.095178	220055560.52
1189633160	Capacitor	C110,C118,C19,C190, C36,C463,C464,C470, C471,C477,C490, C491,C55,C56,C62, C64,C69	Telcordia Issue 1	Level I		0.004544	17.00	.6112	0.077253	220055560.52
11E9501090	Capacitor	C103,C126,C153, C246,C249,C322, C325,C33,C335,C336, C337,C338,C339, C340,C341,C342, C345,C378,C433, C446,C484,C500, C524,C535,C536, C539,C540,C546, C547,C550,C551	Telcordia Issue 1	Level I		0.004544	31.00	1.1146	0.140874	220055560.52
118961018A	Capacitor	C221,C222,C223, C314,C316,C46,C508	Telcordia Issue 1	Level I		0.004544	7.00	.2517	0.031810	220055560.52

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1122722780	Capacitor	C49,C60,C73,C77, C81,C86,C88,C90	Telcordia Issue 1	Level I		0.004544	8.00	.2876	0.036354	220055560.52
1121747780	Capacitor	C558,C58,C59	Telcordia Issue 1	Level I		0.004544	3.00	.1079	0.013633	220055560.52
1129722680	Capacitor	C191,C192,C196, C199,C202,C65	Telcordia Issue 1	Level I		0.004544	6.00	.2157	0.027266	220055560.52
11E9647680	Capacitor	C213,C270,C274, C278,C279,C282, C447,C457,C458, C468,C483,C66	Telcordia Issue 1	Level I		0.004544	12.00	.4315	0.054532	220055560.52
1124547290	Capacitor	C92,C93,C94,C97	Telcordia Issue 1	Level I		0.004544	4.00	.1438	0.018177	220055560.52
1124427090	Capacitor	C233,C234,C238, C239,C240,C241	Telcordia Issue 1	Level I		0.004544	6.00	.2157	0.027266	220055560.52
1129747090	Capacitor	C225,C226,C227, C228,C229,C230, C231,C232,C366, C367,C368,C369	Telcordia Issue 1	Level I		0.005469	12.00	.5193	0.065630	182842274.63
1124405090	Capacitor	C186,C187	Telcordia Issue 1	Level I		0.004544	2.00	.0719	0.009089	220055560.52
1189633181	Capacitor	C247,C454,C461	Telcordia Issue 1	Level I		0.004544	3.00	.1079	0.013633	220055560.52
1129722091	Capacitor	C264,C265	Telcordia Issue 1	Level I		0.004544	2.00	.0719	0.009089	220055560.52
1124547190	Capacitor	C284,C285,C296, C297	Telcordia Issue 1	Level I		0.004544	4.00	.1438	0.018177	220055560.52
1129710390	Capacitor	C288,C291,C292, C295,C323,C324, C438,C450,C451, C453,C462,C466	Telcordia Issue 1	Level I		0.004544	12.00	.4315	0.054532	220055560.52
1189615150	Capacitor	C308,C311,C526	Telcordia Issue 1	Level I		0.004544	3.00	.1079	0.013633	220055560.52
1124418190	Capacitor	C318,C319,C344, C349,C357,C358	Telcordia Issue 1	Level I		0.005469	6.00	.2596	0.032815	182842274.63
1129710090	Capacitor	C106,C107,C350, C352,C380,C419	Telcordia Issue 1	Level I		0.004544	6.00	.2157	0.027266	220055560.52
1124410190	Capacitor	C394,C395,C396, C397,C398,C399, C400,C401,C405, C406,C407,C409, C411,C412,C413, C414	Telcordia Issue 1	Level I		0.004544	16.00	.5753	0.072709	220055560.52
1124433190	Capacitor	C421	Telcordia Issue 1	Level I		0.005469	1.00	.0433	0.005469	182842274.63
1121701080	Capacitor	C353,C423,C424	Telcordia Issue 1	Level I		0.004544	3.00	.1079	0.013633	220055560.52
1189647184	Capacitor	C434,C520	Telcordia Issue 1	Level I		0.004544	2.00	.0719	0.009089	220055560.52
1121733780	Capacitor	C486,C557	Telcordia Issue 1	Level I		0.005469	2.00	.0865	0.010938	182842274.63
1124727380	Capacitor	C489	Telcordia Issue 1	Level I		0.004544	1.00	.0360	0.004544	220055560.52

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MTBF 79,119

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1189647180	Capacitor	C492	Telcordia Issue 1	Level I		0.004544	1.00	.0360	0.004544	220055560.52
1124518280	Capacitor	C493	Telcordia Issue 1	Level I		0.004544	1.00	.0360	0.004544	220055560.52
1124515880	Capacitor	C498	Telcordia Issue 1	Level I		0.004544	1.00	.0360	0.004544	220055560.52
1124556180	Capacitor	C499	Telcordia Issue 1	Level I		0.004544	1.00	.0360	0.004544	220055560.52
16515A0996	Connection	DIMM1	Telcordia Issue 1	Level I		0.114390	1.00	.9050	0.114390	8742017.77
1301005444	Semiconductor	D1,D28,D4,D5	Telcordia Issue 1	Level I		0.023950	4.00	.7580	0.095799	41754194.40
1301005440	Semiconductor	D21,D26,D9	Telcordia Issue 1	Level I		0.023950	3.00	.5685	0.071849	41754194.40
1301005442	Semiconductor	D10,D22	Telcordia Issue 1	Level I		0.023950	2.00	.3790	0.047899	41754194.40
1301003440	Semiconductor	D23,D24,D27	Telcordia Issue 1	Level I		0.023950	3.00	.5685	0.071849	41754194.40
1300560040	Integrated Circuit	D25	Telcordia Issue 1	Level I		0.059802	1.00	.4731	0.059802	16721916.86
1304101340	Semiconductor	LED1	Telcordia Issue 1	Level I		0.004921	1.00	.0389	0.004921	203197151.95
121230603H	Inductor	L15,L19,L29,L34, L35,L43,L48,L49, L50	Telcordia Issue 1	Level I		0.002272	9.00	.1618	0.020449	440111121.05
121110010P	Inductor	L16,L3,L5	Telcordia Issue 1	Level I		0.002272	3.00	.0539	0.006816	440111121.05
1211101005	Inductor	L6,L7	Telcordia Issue 1	Level I		0.002272	2.00	.0360	0.004544	440111121.05
121230805L	Inductor	L27,L8	Telcordia Issue 1	Level I		0.002272	2.00	.0360	0.004544	440111121.05
1212306033	Inductor	L10,L11,L12,L13, L14,L28,L32,L33, L36,L37,L38,L39, L40,L41,L42,L44, L45,L46,L47,L56, L57,L9	Telcordia Issue 1	Level I		0.002272	22.00	.3955	0.049987	440111121.05
121230805M	Inductor	L17,L18	Telcordia Issue 1	Level I		0.002272	2.00	.0360	0.004544	440111121.05
121230603J	Inductor	L20,L21,L22	Telcordia Issue 1	Level I		0.002272	3.00	.0539	0.006816	440111121.05
1059700001	Resistor	L30,R265,R498,R523, R579	Telcordia Issue 1	Level I		0.002272	5.00	.0899	0.011361	440111121.05
121110336L	Inductor	L52	Telcordia Issue 1	Level I		0.086342	1.00	.6831	0.086342	11581871.61
121110156A	Inductor	L54	Telcordia Issue 1	Level I		0.086342	1.00	.6831	0.086342	11581871.61
1654262300	Connection	MPC11	Telcordia Issue 1	Level I		0.070922	1.00	.5611	0.070922	14100028.66
1315700211	Semiconductor	Q1,Q10,Q15,Q2,Q26, Q27,Q3,Q34,Q35,Q38, Q8,Q9	Telcordia Issue 1	Level I		0.079832	12.00	7.5795	0.957988	12526258.32
1314158210	Integrated Circuit	Q4	Telcordia Issue 1	Level I		0.059802	1.00	.4731	0.059802	16721916.86
1315030210	Semiconductor	Q5	Telcordia Issue 1	Level I		0.079832	1.00	.6316	0.079832	12526258.32
1311006910	Semiconductor	Q6	Telcordia Issue 1	Level I		0.023950	1.00	.1895	0.023950	41754194.40
1310390410	Semiconductor	Q37	Telcordia Issue 1	Level I		0.023950	1.00	.1895	0.023950	41754194.40

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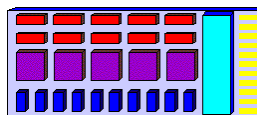


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Time 7:38 下午
Failure Rate 12.639133
MTBF 79,119

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A700139	Resistor	R103,R11,R134,R157, R165,R341,R395, R396,R397,R428,R43, R432,R451,R452,R46, R463,R476,R535, R577,R592,R593, R613,R98,R99	Telcordia Issue 1	Level I		0.002272	24.00	.4315	0.054532	440111121.05
105A715009	Resistor	R14,R18,R416,R417, R418,R419,R420	Telcordia Issue 1	Level I		0.002272	7.00	.1258	0.015905	440111121.05
105A539263	Resistor	R15	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	440111121.05
105A768003	Resistor	R17	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	440111121.05
105A500133	Resistor	R21,R502,R612,R96	Telcordia Issue 1	Level I		0.002272	4.00	.0719	0.009089	440111121.05
105A700003	Resistor	R20,R350,R423,R482, R487,R493,R497, R504,R506,R519, R522,R603	Telcordia Issue 1	Level I		0.002272	12.00	.2157	0.027266	440111121.05
105A500233	Resistor	R26,R509	Telcordia Issue 1	Level I		0.002272	2.00	.0360	0.004544	440111121.05
105A522103	Resistor	R28,R32	Telcordia Issue 1	Level I		0.002272	2.00	.0360	0.004544	440111121.05
105A510009	Resistor	R149,R285,R29,R291, R33,R37,R474	Telcordia Issue 1	Level I		0.002272	7.00	.1258	0.015905	440111121.05
105A524963	Resistor	R112,R31,R35,R63	Telcordia Issue 1	Level I		0.002272	4.00	.0719	0.009089	440111121.05
105A710009	Resistor	R126,R127,R129, R130,R131,R132,R39	Telcordia Issue 1	Level I		0.002272	7.00	.1258	0.015905	440111121.05
105A701039	Resistor	R160,R163,R164, R166,R212,R215, R226,R227,R254, R282,R283,R284, R288,R290,R297, R299,R373,R374, R392,R394,R40,R406, R41,R422,R508,R533, R546,R547,R550, R551,R562,R97	Telcordia Issue 1	Level I		0.002272	32.00	.5753	0.072709	440111121.05
105A515009	Resistor	R262,R263,R264,R53, R54,R55	Telcordia Issue 1	Level I		0.002272	6.00	.1079	0.013633	440111121.05
105A702229	Resistor	R217,R47,R48,R49, R50,R51,R52	Telcordia Issue 1	Level I		0.002272	7.00	.1258	0.015905	440111121.05
105A703903	Resistor	R56,R57	Telcordia Issue 1	Level I		0.002272	2.00	.0360	0.004544	440111121.05
105A549913	Resistor	R343,R60	Telcordia Issue 1	Level I		0.002272	2.00	.0360	0.004544	440111121.05
105A525503	Resistor	R61	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	440111121.05
105A701523	Resistor	R62	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	440111121.05
105A540263	Resistor	R90,R91	Telcordia Issue 1	Level I		0.002272	2.00	.0360	0.004544	440111121.05

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MTBF 79,119

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105A549969	Resistor	R170,R173,R174, R177,R178,R179, R182,R184,R186, R187,R191,R192, R194,R196,R198, R199,R358,R359, R360,R361,R362, R363,R364,R365	Telcordia Issue 1	Level I		0.002272	24.00	.4315	0.054532	44011121.05
105A547503	Resistor	R214	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	44011121.05
105A710039	Resistor	C326,C327,C343, C348,R266,R267, R275,R276,R386, R387,R388,R478, R479,R588,R589, R597	Telcordia Issue 1	Level I		0.002272	16.00	.2876	0.036354	44011121.05
105A512103	Resistor	R273,R274	Telcordia Issue 1	Level I		0.002272	2.00	.0360	0.004544	44011121.05
105A704729	Resistor	R280,R281,R294, R295,R296,R301, R408,R409,R425, R429,R453,R473, R501,R527,R552, R553,R560,R584, R585,R590,R591	Telcordia Issue 1	Level I		0.002272	21.00	.3775	0.047715	44011121.05
105A703329	Resistor	R308,R314,R328, R329,R342,R348	Telcordia Issue 1	Level I		0.002272	6.00	.1079	0.013633	44011121.05
105A704709	Resistor	R330,R332,R334	Telcordia Issue 1	Level I		0.002272	3.00	.0539	0.006816	44011121.05
1059700101	Resistor	R351	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	44011121.05
105A702223	Resistor	R385,R390	Telcordia Issue 1	Level I		0.002272	2.00	.0360	0.004544	44011121.05
105A702263	Resistor	R389,R505	Telcordia Issue 1	Level I		0.002272	2.00	.0360	0.004544	44011121.05
105A701059	Resistor	R398,R413	Telcordia Issue 1	Level I		0.002272	2.00	.0360	0.004544	44011121.05
105A705139	Resistor	R412,R443,R444	Telcordia Issue 1	Level I		0.002272	3.00	.0539	0.006816	44011121.05
105A501039	Resistor	R426,R427,R433, R434,R435,R439, R440,R441	Telcordia Issue 1	Level I		0.002272	8.00	.1438	0.018177	44011121.05
105A702233	Resistor	R431	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	44011121.05
105A506823	Resistor	R436,R438,R517	Telcordia Issue 1	Level I		0.002272	3.00	.0539	0.006816	44011121.05
105A503033	Resistor	R437	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	44011121.05
105A504763	Resistor	R483,R491,R492	Telcordia Issue 1	Level I		0.002272	3.00	.0539	0.006816	44011121.05
105A722033	Resistor	R484	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	44011121.05

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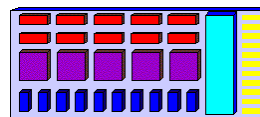


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105A560423	Resistor	R485	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	44011121.05
105A502033	Resistor	R488,R499,R503	Telcordia Issue 1	Level I		0.002272	3.00	.0539	0.006816	44011121.05
105A533223	Resistor	R496	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	44011121.05
1059702261	Resistor	R500	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	44011121.05
105A511313	Resistor	R507	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	44011121.05
105A510213	Resistor	R510	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	44011121.05
105A501623	Resistor	R511	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	44011121.05
105A532413	Resistor	R512,R524	Telcordia Issue 1	Level I		0.002272	2.00	.0360	0.004544	44011121.05
105A510033	Resistor	R515	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	44011121.05
105A501223	Resistor	R516	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	44011121.05
105A520033	Resistor	R521	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	44011121.05
105A513723	Resistor	R525	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	44011121.05
105A554923	Resistor	R528	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	44011121.05
105A545323	Resistor	R529	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	44011121.05
105A507533	Resistor	R530	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	44011121.05
105A535713	Resistor	R531	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	44011121.05
105A510513	Resistor	R534	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	44011121.05
14S9103200	Integrated Circuit	U2	Telcordia Issue 1	Level I		0.059802	1.00	.4731	0.059802	16721916.86
14S5A00704	Integrated Circuit	U4	Telcordia Issue 1	Level I		0.026337	1.00	.2084	0.026337	37969565.62
14S428010B	Integrated Circuit	U5	Telcordia Issue 1	Level I	19.10	0.075600	1.00	.5981	0.075600	13227427.32
14S5A00821	Integrated Circuit	U6	Telcordia Issue 1	Level I		0.026337	1.00	.2084	0.026337	37969565.62
14S9951500	Integrated Circuit	U7	Telcordia Issue 1	Level I		0.059802	1.00	.4731	0.059802	16721916.86
14S3420600	Integrated Circuit	U8	Telcordia Issue 1	Level I	24.20	0.307162	1.00	2.4302	0.307162	3255607.70
1315970211	Semiconductor	U15,U16,U19,U9	Telcordia Issue 1	Level I		0.159665	4.00	5.0530	0.638658	6263129.16
14S2200900	Integrated Circuit	U10	Telcordia Issue 1	Level I		0.059802	1.00	.4731	0.059802	16721916.86
1651203291	Connection	U12	Telcordia Issue 1	Level I		0.018302	1.00	.1448	0.018302	54637611.06
14S4825730	Integrated Circuit	U13	Telcordia Issue 1	Level I	11.90	0.051584	1.00	.4081	0.051584	19385754.12
14S3065500	Integrated Circuit	U17	Telcordia Issue 1	Level I		0.059802	1.00	.4731	0.059802	16721916.86
14S5A12503	Integrated Circuit	U23	Telcordia Issue 1	Level I		0.059802	1.00	.4731	0.059802	16721916.86
14S5A00600	Integrated Circuit	U25	Telcordia Issue 1	Level I		0.025394	1.00	.2009	0.025394	39379309.36
14S5A12506	Integrated Circuit	U27	Telcordia Issue 1	Level I		0.026337	1.00	.2084	0.026337	37969565.62

AAEON Reliability Prediction Report

Part Number 969791550B-DIP
Reference Des
Date 04. 7, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.10



Description Top-level assembly
File Name GENE-9155.RPJ
Time 7:38 下午
Failure Rate 12.639133
MTBF 79,119

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
14S5A00702	Integrated Circuit	U31,U33,U48	Telcordia Issue 1	Level I		0.059802	3.00	1.4194	0.179405	16721916.86
14S4070610	Integrated Circuit	U32	Telcordia Issue 1	Level I		0.059802	1.00	.4731	0.059802	16721916.86
14S2264200	Integrated Circuit	U35	Telcordia Issue 1	Level I	18.00	0.206856	1.00	1.6366	0.206856	4834291.70
1315669000	Semiconductor	U36,U37,U39,U40	Telcordia Issue 1	Level I		0.079832	4.00	2.5265	0.319329	12526258.32
14S4653700	Integrated Circuit	U41	Telcordia Issue 1	Level I		0.059802	1.00	.4731	0.059802	16721916.86
1315889611	Semiconductor	U44,U45	Telcordia Issue 1	Level I		0.079832	2.00	1.2633	0.159665	12526258.32
14S4621800	Integrated Circuit	U46	Telcordia Issue 1	Level I	24.90	0.320878	1.00	2.5388	0.320878	3116453.93
14S9108500	Integrated Circuit	U47	Telcordia Issue 1	Level I		0.059802	1.00	.4731	0.059802	16721916.86
1231332721	Miscellaneous	Y1	Telcordia Issue 1	Level I		0.150000	1.00	1.1868	0.150000	6666666.67
1231314350	Miscellaneous	Y2	Telcordia Issue 1	Level I		0.150000	1.00	1.1868	0.150000	6666666.67
1231325050	Miscellaneous	Y3	Telcordia Issue 1	Level I		0.150000	1.00	1.1868	0.150000	6666666.67
11C2510190	Capacitor	C432,C449,C481, C527	Telcordia Issue 1	Level I		0.004544	4.00	.1438	0.018177	220055560.52
1124447180	Capacitor	C496	Telcordia Issue 1	Level I		0.004544	1.00	.0360	0.004544	220055560.52
11B9747490	Capacitor	C373	Telcordia Issue 1	Level I		0.004544	1.00	.0360	0.004544	220055560.52
1211106802	Inductor	L55	Telcordia Issue 1	Level I	9.70	0.103780	1.00	.8211	0.103780	9635752.21
14S6308001	Integrated Circuit	U14	Telcordia Issue 1	Level I		0.036146	1.00	.2860	0.036146	27665759.41
14S4048502	Integrated Circuit	U22,U24	Telcordia Issue 1	Level I		0.059802	2.00	.9463	0.119604	16721916.86
1214309000	Inductor	CH1,CH2,CH3,CH4	Telcordia Issue 1	Level I		0.002272	4.00	.0719	0.009089	440111121.05
1305000140	Semiconductor	D12,D13,D14,D15, D16,D17,D18,D19	Telcordia Issue 1	Level I		0.023950	8.00	1.5159	0.191598	41754194.40
1315230300	Semiconductor	Q7	Telcordia Issue 1	Level I		0.079832	1.00	.6316	0.079832	12526258.32
105A747009	Resistor	R548,R549	Telcordia Issue 1	Level I		0.002272	2.00	.0360	0.004544	440111121.05
1301053040	Semiconductor	D32	Telcordia Issue 1	Level I		0.023950	1.00	.1895	0.023950	41754194.40
14S4871204	Integrated Circuit	U18	Telcordia Issue 1	Level I		0.026337	1.00	.2084	0.026337	37969565.62
1300001440	Semiconductor	D33,D34	Telcordia Issue 1	Level I		0.023950	2.00	.3790	0.047899	41754194.40
14S4650601	Integrated Circuit	U50	Telcordia Issue 1	Level I		0.059802	1.00	.4731	0.059802	16721916.86
1311390610	Semiconductor	Q36	Telcordia Issue 1	Level I		0.023950	1.00	.1895	0.023950	41754194.40
1211000180	Inductor	L51	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	440111121.05
1315442910	Semiconductor	U52	Telcordia Issue 1	Level I		0.079832	1.00	.6316	0.079832	12526258.32
1315441014	Semiconductor	U51	Telcordia Issue 1	Level I	11.50	0.109721	1.00	.8681	0.109721	9113986.07
1189633192	Capacitor	C521	Telcordia Issue 1	Level I		0.004544	1.00	.0360	0.004544	220055560.52

AAEON Reliability Prediction Report

Part Number 969791550B-DIP
Reference Des
Date 04. 7, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.10

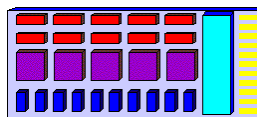


Description Top-level assembly
File Name GENE-9155.RPJ
Time 7:38 下午
Failure Rate 12.639133
MTBF 79,119

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
14S4021301	Integrated Circuit	U21	Telcordia Issue 1	Level I	7.90	0.104969	1.00	.8305	0.104969	9526603.44
14S4021301	Integrated Circuit	U20	Telcordia Issue 1	Level I		0.059802	1.00	.4731	0.059802	16721916.86
1129610080	Capacitor	C517,C519	Telcordia Issue 1	Level I		0.004544	2.00	.0719	0.009089	220055560.52
14S4060002	Integrated Circuit	U1	Telcordia Issue 1	Level I	12.10	0.052147	1.00	.4126	0.052147	19176410.10
14S4291503	Integrated Circuit	U3	Telcordia Issue 1	Level I	9.90	0.046241	1.00	.3659	0.046241	21625852.87
105A702209	Resistor	R468	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	440111121.05
11E9510050	Capacitor	C10,C11,C12,C13, C14,C15,C16,C17, C171,C173,C18,C2, C255,C281,C300, C305,C330,C331, C333,C34,C346,C35, C351,C359,C372,C41, C474,C475,C476,C48, C5,C501,C502,C503, C504,C518,C52,C53, C6,C67,C68,C7,C70, C75,C79,C8,C83,C9	Telcordia Issue 1	Level I		0.004544	48.00	1.7258	0.218127	220055560.52
14S5A12505	Integrated Circuit	U53	Telcordia Issue 1	Level I		0.059802	1.00	.4731	0.059802	16721916.86
14S4195710	Integrated Circuit	U54,U55	Telcordia Issue 1	Level I		0.059802	2.00	.9463	0.119604	16721916.86
1315030110	Semiconductor	Q41	Telcordia Issue 1	Level I		0.000000	1.00	.0000	0.000000	.00
105A501123	Resistor	R611	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	440111121.05
105A501033	Resistor	R616	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	440111121.05
105A542213	Resistor	R617	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	440111121.05
11E9501091	Capacitor	C554	Telcordia Issue 1	Level I		0.004544	1.00	.0360	0.004544	220055560.52
1315668012	Semiconductor	U42,U43	Telcordia Issue 1	Level I		0.023950	2.00	.3790	0.047899	41754194.40
121110226C	Inductor	L53	Telcordia Issue 1	Level I	33.30	0.155225	1.00	1.2281	0.155225	6442259.33
1301013041	Semiconductor	D36,D37,D38,D39	Telcordia Issue 1	Level I		0.023950	4.00	.7580	0.095799	41754194.40
1654030003	Connection	CN4	Telcordia Issue 1	Level I		0.017159	1.00	.1358	0.017159	58280118.46
12123B000C	Inductor	L31	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	440111121.05
105A704739	Resistor	R606	Telcordia Issue 1	Level I		0.002272	1.00	.0180	0.002272	440111121.05
1112633190	Capacitor	EC1	Telcordia Issue 1	Level I		0.042896	1.00	.3394	0.042896	23312047.39
1653300102	Connection	J1(1-2),J2(2-3), J5(5-6),J6(1-2)	Telcordia Issue 1	Level I		0.001144	4.00	.0362	0.004576	874201776.95
1652514209	Connection	LAN1	Telcordia Issue 1	Level I		0.008007	1.00	.0634	0.008007	124885968.14

AAEON Reliability Prediction Report

Part Number 969791550B-DIP
Reference Des
Date 04. 7, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.10



Description Top-level assembly
File Name GENE-9155.RPJ
Time 7:38 下午
Failure Rate 12.639133
MTBF 79,119

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1654808304	Connection	USB1	Telcordia Issue 1	Level I		0.001144	1.00	.0091	0.001144	874201776.95
1654415305	Connection	CN1	Telcordia Issue 1	Level I		0.008579	1.00	.0679	0.008579	116560236.93
1653005201	Connection	CN10,CN14,CN15,CN6	Telcordia Issue 1	Level I		0.005720	4.00	.1810	0.022878	174840355.39
1655303020	Connection	CN7	Telcordia Issue 1	Level I		0.001716	1.00	.0136	0.001716	582801184.63
1653007201	Connection	CN8	Telcordia Issue 1	Level I		0.008007	1.00	.0634	0.008007	124885968.14
1654606306	Connection	CN11	Telcordia Issue 1	Level I		0.003432	1.00	.0272	0.003432	291400592.32
1655003010	Connection	CN12	Telcordia Issue 1	Level I		0.001716	1.00	.0136	0.001716	582801184.63
1654409103	Connection	CN13	Telcordia Issue 1	Level I		0.128689	1.00	1.0182	0.128689	7770682.46
1653003101	Connection	JP1,JP2,JP6	Telcordia Issue 1	Level I		0.001716	3.00	.0407	0.005148	582801184.63
1653003201	Connection	JP5	Telcordia Issue 1	Level I		0.001144	1.00	.0091	0.001144	874201776.95
1655902030	Connection	BAT1	Telcordia Issue 1	Level I		0.001144	1.00	.0091	0.001144	874201776.95
175011901C	Miscellaneous	BAT1	Telcordia Issue 1	Level I		0.900000	1.00	7.1207	0.900000	1111111.11
1653900034	Connection	CFD1	Telcordia Issue 1	Level I		0.013727	1.00	.1086	0.013727	72850148.08
1654907006	Connection	SATA1	Telcordia Issue 1	Level I		0.004004	1.00	.0317	0.004004	249771936.27
1655004011	Connection	CN26	Telcordia Issue 1	Level I		0.022878	1.00	.1810	0.022878	43710088.85
1655404020	Connection	CN30	Telcordia Issue 1	Level I		0.002288	1.00	.0181	0.002288	437100888.47
1655306020	Connection	CN31	Telcordia Issue 1	Level I		0.085793	1.00	.6788	0.085793	11656023.69