

GENE-9310

Reliability Prediction Report (MTBF)

Report NO : 07E070002

1-26-2007

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** GENE-9310

II . **Prediction Date:** Jan. 26, 2007

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

IV . **Predicted by:** Jessica Chou

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

VI. **Simulation Environment:**

- Temperature: 25.8 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-9310
 - Failure Rate: 12.601191 ppm
 - MTBF: 79,358 Hours

AAEON Reliability Prediction Report

Part Number 9697931004
Reference Des
Date 01. 26, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.80



Description Top-level assembly
File Name GENE-9310.RPJ
Time 11:52 上午
Failure Rate 12.601191
MTBF 79,358

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
GENE-9310	9697931004	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	12.601191	79,358

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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1653002101	Connection	JP7,JP8	Bellcore Issue 6	Level I		0.001186	2.00	.0188	0.002373	842896006.79
1653003100	Connection	JP6	Bellcore Issue 6	Level I		0.001780	1.00	.0141	0.001780	561930671.19
1653003101	Connection	JP1	Bellcore Issue 6	Level I		0.001780	1.00	.0141	0.001780	561930671.19
1653003201	Connection	JP3	Bellcore Issue 6	Level I		0.003559	1.00	.0282	0.003559	280965335.60
1653004201	Connection	CN3	Bellcore Issue 6	Level I		0.004746	1.00	.0377	0.004746	210724001.70
1653005201	Connection	CN2,CN20,CN23,CN9	Bellcore Issue 6	Level I		0.005932	4.00	.1883	0.023728	168579201.36
1653007201	Connection	CN6	Bellcore Issue 6	Level I		0.008305	1.00	.0659	0.008305	120413715.26
1653300102	Connection	JP1,JP3	Bellcore Issue 6	Level I		0.023728	2.00	.3766	0.047455	42144800.34
1654409103	Connection	CN11	Bellcore Issue 6	Level I		0.005339	1.00	.0424	0.005339	187310223.73
1655303020	Connection	CN28	Bellcore Issue 6	Level I		0.001780	1.00	.0141	0.001780	561930671.19
1655003010	Connection	CN15	Bellcore Issue 6	Level I		0.001780	1.00	.0141	0.001780	561930671.19
1654808304	Connection	USB1	Bellcore Issue 6	Level I		0.004746	1.00	.0377	0.004746	210724001.70
1653900034	Connection	CN24	Bellcore Issue 6	Level I		0.001186	1.00	.0094	0.001186	842896006.79
1654907000	Connection	SATA1,SATA2	Bellcore Issue 6	Level I		0.004152	2.00	.0659	0.008305	240827430.51
1654415305	Connection	CN26	Bellcore Issue 6	Level I		0.008898	1.00	.0706	0.008898	112386134.24
1654606306	Connection	CN21	Bellcore Issue 6	Level I		0.003559	1.00	.0282	0.003559	280965335.60
1652002100	Connection	CN19	Bellcore Issue 6	Level I		0.001186	1.00	.0094	0.001186	842896006.79
1652002200	Connection	CN19	Bellcore Issue 6	Level I		0.001186	1.00	.0094	0.001186	842896006.79
1653300104	Connection	JP6	Bellcore Issue 6	Level I		0.001186	1.00	.0094	0.001186	842896006.79
1655902030	Connection	BAT1	Bellcore Issue 6	Level I		0.001186	1.00	.0094	0.001186	842896006.79
175011901C	Miscellaneous	BAT1	Bellcore Issue 6	Level I		0.900000	1.00	7.1422	0.900000	1111111.11
1181627191	Capacitor	EC5,EC7	Bellcore Issue 6	Level I		0.004607	2.00	.0731	0.009214	217066705.02
14S6200404	Integrated Circuit	U9	Bellcore Issue 6	Level I		0.172630	1.00	1.3699	0.172630	5792747.90
1652514209	Connection	LAN1	Bellcore Issue 6	Level I		0.023728	1.00	.1883	0.023728	42144800.34
105A500233	Resistor	R679	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
105A511823	Resistor	R849	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
105A516923	Resistor	R717	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
105A700003	Resistor	L30,L31,R701,R838,R841,R865,R8-67,R927,R928,R942	Bellcore Issue 6	Level I		0.002303	10.00	.1828	0.023034	434133410.04
105A701003	Resistor	R731,R745,R753,R837	Bellcore Issue 6	Level I		0.002303	4.00	.0731	0.009214	434133410.04
105A701053	Resistor	R833,R943	Bellcore Issue 6	Level I		0.002303	2.00	.0366	0.004607	434133410.04

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Time 11:52 上午
Failure Rate 12.601191
MTBF 79,358

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1059700001	Resistor	FB10,FB2-FB4,FB7,L13,L25,L32,L4-,L40,L42,L44,L47,L5,L80,R337,R47-2,R705,R706	Bellcore Issue 6	Level I		0.002303	19.00	.3473	0.043765	434133410.04
1059700001	Resistor	R847,R850,R854,R855	Bellcore Issue 6	Level I		0.002303	4.00	.0731	0.009214	434133410.04
105A500133	Resistor	R685,R743	Bellcore Issue 6	Level I		0.002303	2.00	.0366	0.004607	434133410.04
105A502033	Resistor	R234,R853	Bellcore Issue 6	Level I		0.002303	2.00	.0366	0.004607	434133410.04
105A505623	Resistor	R737	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
105A503633	Resistor	R689	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
1231332721	Miscellaneous	Y3	Bellcore Issue 6	Level I		0.150000	1.00	1.1904	0.150000	6666666.67
1122701680	Capacitor	C747,C752,C756,C763,C772	Bellcore Issue 6	Level I		0.004607	5.00	.1828	0.023034	217066705.02
1122722780	Capacitor	C673,C685	Bellcore Issue 6	Level I		0.004607	2.00	.0731	0.009214	217066705.02
1124518180	Capacitor	C665	Bellcore Issue 6	Level I		0.004607	1.00	.0366	0.004607	217066705.02
1124522180	Capacitor	C743,C744	Bellcore Issue 6	Level I		0.004607	2.00	.0731	0.009214	217066705.02
1124527080	Capacitor	C240-C242,C246,C56,C62	Bellcore Issue 6	Level I		0.004607	6.00	.2194	0.027641	217066705.02
1124427080	Capacitor	C433,C434	Bellcore Issue 6	Level I		0.004607	2.00	.0731	0.009214	217066705.02
1124433080	Capacitor	C748,C749	Bellcore Issue 6	Level I		0.004607	2.00	.0731	0.009214	217066705.02
1124539180	Capacitor	C649	Bellcore Issue 6	Level I		0.004607	1.00	.0366	0.004607	217066705.02
1124547080	Capacitor	C168	Bellcore Issue 6	Level I		0.004607	1.00	.0366	0.004607	217066705.02
1540710080	Resistor	RN3-RN6	Bellcore Issue 6	Level I		0.006478	4.00	.2056	0.025912	154367488.10
1301005440	Semiconductor	D11,D14-D16,D19-D21,D4	Bellcore Issue 6	Level I		0.024435	8.00	1.5513	0.195479	40925065.22
1310390410	Semiconductor	Q23,Q40	Bellcore Issue 6	Level I		0.024435	2.00	.3878	0.048870	40925065.22
14S3006000	Integrated Circuit	DN1	Bellcore Issue 6	Level I		0.062934	1.00	.4994	0.062934	15889612.13
1651203291	Connection	U9	Bellcore Issue 6	Level I		0.018982	1.00	.1506	0.018982	52681000.42
14S4048501	Integrated Circuit	U32,U33	Bellcore Issue 6	Level I		0.062934	2.00	.9989	0.125868	15889612.13
1301005442	Semiconductor	D2,D3,D31	Bellcore Issue 6	Level I		0.024435	3.00	.5817	0.073305	40925065.22
1212306033	Inductor	L1,L10-L12,L35-L38,L41,L50-L55,L-64,L65,L71,L73-L76	Bellcore Issue 6	Level I		0.002303	22.00	.4021	0.050676	434133410.04
14S4021310	Integrated Circuit	U23,U25	Bellcore Issue 6	Level I		0.062934	2.00	.9989	0.125868	15889612.13
1315700211	Semiconductor	Q21,Q22,Q25-Q28,Q33,Q35,Q52--Q57,Q8	Bellcore Issue 6	Level I		0.081450	15.00	9.6955	1.221745	12277519.57
14S5A00700	Integrated Circuit	U11	Bellcore Issue 6	Level I		0.039708	1.00	.3151	0.039708	25183553.86
14S3020100	Integrated Circuit	U7	Bellcore Issue 6	Level I		0.062934	1.00	.4994	0.062934	15889612.13

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Failure Rate 12.601191
MTBF 79,358

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A700009	Resistor	R663,R671,R673,R674,R677,R686- R694,R703,R707,R712,R715,R716- R722,R734	Bellcore Issue 6	Level I		0.002303	14.00	.2559	0.032248	434133410.04
105A700009	Resistor	R736,R739-R741,R744,R748,R761- R765,R766,R776,R778,R78,R832,- R840,R844	Bellcore Issue 6	Level I		0.002303	15.00	.2742	0.034552	434133410.04
105A700009	Resistor	R856,R871,R874,R846,R881,R900- R909,R910,R913,R932,R940	Bellcore Issue 6	Level I		0.002303	11.00	.2011	0.025338	434133410.04
105A701039	Resistor	R125,R144,R168,R170,R181,R183- R187,R191,R193,R21,R27,R368,R- 413,R43,R448	Bellcore Issue 6	Level I		0.002303	18.00	.3290	0.041462	434133410.04
105A701039	Resistor	R449,R454,R455,R461,R462,R51,- R519,R521,R527,R534,R535,R537- R579,R585	Bellcore Issue 6	Level I		0.002303	14.00	.2559	0.032248	434133410.04
105A701039	Resistor	R675,R681,R933,R945	Bellcore Issue 6	Level I		0.002303	4.00	.0731	0.009214	434133410.04
105A710009	Resistor	R146,R182,R22,R241,R440,R504,- R512,R517,R565,R574,R604,R621- R626,R632	Bellcore Issue 6	Level I		0.002303	14.00	.2559	0.032248	434133410.04
105A710009	Resistor	R666,R687,R693,R779	Bellcore Issue 6	Level I		0.002303	4.00	.0731	0.009214	434133410.04
105A703309	Resistor	R102,R105,R109,R113,R114,R116- R118,R119,R123,R203,R419,R468- R491,R536	Bellcore Issue 6	Level I		0.002303	14.00	.2559	0.032248	434133410.04
105A703309	Resistor	R551,R552,R553,R575,R633,R70,- R72,R73,R75,R79,R84,R86,R88,R- 89,R91,R94	Bellcore Issue 6	Level I		0.002303	16.00	.2925	0.036855	434133410.04
105A703309	Resistor	R96,R98,R99	Bellcore Issue 6	Level I		0.002303	3.00	.0548	0.006910	434133410.04
105A701009	Resistor	R476,R573	Bellcore Issue 6	Level I		0.002303	2.00	.0366	0.004607	434133410.04
105A702239	Resistor	R160,R276,R278,R280,R284,R627- R720,R733	Bellcore Issue 6	Level I		0.002303	8.00	.1462	0.018428	434133410.04
105A702229	Resistor	R445,R446,R469,R507,R524,R726- R76	Bellcore Issue 6	Level I		0.002303	7.00	.1280	0.016124	434133410.04
105A733009	Resistor	R100,R190,R218,R258,R259,R67,- R772,R774,R93	Bellcore Issue 6	Level I		0.002303	9.00	.1645	0.020731	434133410.04
1129701690	Capacitor	C750,C751,C755,C758,C759,C767- C768	Bellcore Issue 6	Level I		0.004607	7.00	.2559	0.032248	217066705.02
1129710090	Capacitor	C243-C245,C287-C289,C38,C419,- C436,C437,C442,C446,C450,C453- C462,C58,C59	Bellcore Issue 6	Level I		0.004607	17.00	.6215	0.078317	217066705.02
1129722091	Capacitor	C778,C779	Bellcore Issue 6	Level I		0.004607	2.00	.0731	0.009214	217066705.02

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MTBF 79,358

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1129710390	Capacitor	C160,C271,C273,C276,C278,C29,- C30,C5,C607	Bellcore Issue 6	Level I		0.004607	9.00	.3290	0.041462	217066705.02
1129701790	Capacitor	C128,C272,C274,C275,C277,C316- C389,C619	Bellcore Issue 6	Level I		0.004607	8.00	.2925	0.036855	217066705.02
1129722680	Capacitor	C123,C33,C447,C477,C478,C490,- C512,C81	Bellcore Issue 6	Level I		0.004607	8.00	.2925	0.036855	217066705.02
1121733380	Capacitor	C651,C677	Bellcore Issue 6	Level I		0.004607	2.00	.0731	0.009214	217066705.02
105A702263	Resistor	R669,R670,R683,R688,R750,R767	Bellcore Issue 6	Level I		0.002303	6.00	.1097	0.013821	434133410.04
105A561923	Resistor	R728,R848	Bellcore Issue 6	Level I		0.002303	2.00	.0366	0.004607	434133410.04
1129610050	Capacitor	C13,C140,C141,C170,C175,C195,- C235,C247,C258,C292,C296,C372- C397,C398	Bellcore Issue 6	Level I		0.004607	14.00	.5118	0.064496	217066705.02
1129610050	Capacitor	C416,C486,C502,C527,C553,C6,C- 606,C635,C7,C703,C704,C799,C80- 3,C98	Bellcore Issue 6	Level I		0.004607	14.00	.5118	0.064496	217066705.02
1653222208	Connection	CN22	Bellcore Issue 6	Level I		0.026100	1.00	.2071	0.026100	38313454.85
1311006910	Semiconductor	Q5,Q6	Bellcore Issue 6	Level I		0.024435	2.00	.3878	0.048870	40925065.22
105A563423	Resistor	R852	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
1301002240	Semiconductor	D38-D41	Bellcore Issue 6	Level I		0.024435	4.00	.7756	0.097740	40925065.22
1654262300	Connection	MPC11	Bellcore Issue 6	Level I		0.073556	1.00	.5837	0.073556	13595096.88
1211101005	Inductor	L67,L9	Bellcore Issue 6	Level I		0.087531	2.00	1.3892	0.175061	11424563.42
1189633181	Capacitor	C774	Bellcore Issue 6	Level I	12.50	0.005821	1.00	.0462	0.005821	171804355.43
1304001340	Semiconductor	LED3	Bellcore Issue 6	Level I		0.005246	1.00	.0416	0.005246	190634571.05
1304101340	Semiconductor	LED1,LED2	Bellcore Issue 6	Level I		0.005246	2.00	.0833	0.010491	190634571.05
105A710039	Resistor	R167,R245,R389,R400,R441,R759	Bellcore Issue 6	Level I		0.002303	6.00	.1097	0.013821	434133410.04
105A505629	Resistor	R2	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
105A505109	Resistor	R194	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
105A507509	Resistor	R643,R934-R936	Bellcore Issue 6	Level I		0.002303	4.00	.0731	0.009214	434133410.04
105A501539	Resistor	R842,R843	Bellcore Issue 6	Level I		0.002303	2.00	.0366	0.004607	434133410.04
105A501529	Resistor	R417	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
1124418090	Capacitor	C577,C578	Bellcore Issue 6	Level I		0.004607	2.00	.0731	0.009214	217066705.02
1124547190	Capacitor	BC350,BC351,BC372,BC524	Bellcore Issue 6	Level I		0.004607	4.00	.1462	0.018428	217066705.02
105A549969	Resistor	R10-R13,R484,R490,R496,R498,R- 52,R503,R508,R515,R523,R530,R5- 33,R539,R541	Bellcore Issue 6	Level I		0.002303	17.00	.3108	0.039158	434133410.04

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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A549969	Resistor	R542,R544,R547,R6,R7,R780,R781-R8,R9	Bellcore Issue 6	Level I		0.002303	9.00	.1645	0.020731	434133410.04
105A500139	Resistor	R157,R197,R199,R45,R47,R872	Bellcore Issue 6	Level I		0.002303	6.00	.1097	0.013821	434133410.04
105A501039	Resistor	R423,R424,R437-R439,R447,R478-R667,R757,R763,R770	Bellcore Issue 6	Level I		0.002303	11.00	.2011	0.025338	434133410.04
121230603H	Inductor	L68	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
1653925216	Connection	CN24	Bellcore Issue 6	Level I		0.029660	1.00	.2354	0.029660	33715840.27
1121701080	Capacitor	C1,C109,C110,C115,C14,C178,C179,C181,C2,C204,C205,C251,C252-C260,C261	Bellcore Issue 6	Level I		0.004607	15.00	.5484	0.069103	217066705.02
1121701080	Capacitor	C281,C284,C293,C294,C3,C301,C302,C306-C308,C315,C4,C556,C6-67	Bellcore Issue 6	Level I		0.004607	14.00	.5118	0.064496	217066705.02
1124410190	Capacitor	C15,C17,C19,C21,C22,C226-C229-C28,C32	Bellcore Issue 6	Level I		0.004607	11.00	.4021	0.050676	217066705.02
1124547290	Capacitor	C159,C162,C166,C167,C174,C180-C184,C185	Bellcore Issue 6	Level I		0.004607	8.00	.2925	0.036855	217066705.02
105A500239	Resistor	R198	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
105A705609	Resistor	R103,R106,R108,R110,R117,R120-R127,R129,R132,R137,R139,R147-R231,R326	Bellcore Issue 6	Level I		0.002303	14.00	.2559	0.032248	434133410.04
105A705609	Resistor	R327-R329,R471,R477,R485,R525-R540,R543,R546,R560,R644,R660-R690-R692	Bellcore Issue 6	Level I		0.002303	16.00	.2925	0.036855	434133410.04
105A705609	Resistor	R696,R82,R83,R90,R92,R95,R97	Bellcore Issue 6	Level I		0.002303	7.00	.1280	0.016124	434133410.04
105A547509	Resistor	R511	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
105A515009	Resistor	R357-R359,R376-R378,R458-R460-R482,R483,R500	Bellcore Issue 6	Level I		0.002303	12.00	.2194	0.027641	434133410.04
105A701059	Resistor	R431,R646	Bellcore Issue 6	Level I		0.002303	2.00	.0366	0.004607	434133410.04
105A703909	Resistor	R121,R201,R202,R24,R443,R444,-R634-R636,R638,R640,R641	Bellcore Issue 6	Level I		0.002303	12.00	.2194	0.027641	434133410.04
1054600289	Resistor	R846,R851	Bellcore Issue 6	Level I		0.002303	2.00	.0366	0.004607	434133410.04
1211100160	Inductor	L16,L69	Bellcore Issue 6	Level I		0.087531	2.00	1.3892	0.175061	11424563.42
105A705139	Resistor	R360,R379	Bellcore Issue 6	Level I		0.002303	2.00	.0366	0.004607	434133410.04
105A512039	Resistor	R159	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
105A503039	Resistor	R422	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
105A506829	Resistor	R432,R435	Bellcore Issue 6	Level I		0.002303	2.00	.0366	0.004607	434133410.04

AAEON Reliability Prediction Report

Part Number 9697931004
Reference Des
Date 01. 26, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.80



Description Top-level assembly
File Name GENE-9310.RPJ
Time 11:52 上午
Failure Rate 12.601191
MTBF 79,358

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A527469	Resistor	R195,R727	Bellcore Issue 6	Level I		0.002303	2.00	.0366	0.004607	434133410.04
105A703329	Resistor	R883,R890,R906,R907,R919,R926	Bellcore Issue 6	Level I		0.002303	6.00	.1097	0.013821	434133410.04
105A522669	Resistor	R192	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
105A704709	Resistor	R908,R911,R912	Bellcore Issue 6	Level I		0.002303	3.00	.0548	0.006910	434133410.04
14S3156500	Integrated Circuit	U13	Bellcore Issue 6	Level I	16.50	0.196345	1.00	1.5581	0.196345	5093069.67
105A554969	Resistor	R150,R196,R567,R697,R726	Bellcore Issue 6	Level I		0.002303	5.00	.0914	0.011517	434133410.04
1124533190	Capacitor	C191,C192,C196,C197,C201-C203-C267-C269,C687,C690	Bellcore Issue 6	Level I		0.004607	12.00	.4387	0.055283	217066705.02
14S1035801	Integrated Circuit	U37	Bellcore Issue 6	Level I		0.062934	1.00	.4994	0.062934	15889612.13
105A549919	Resistor	R466,R920	Bellcore Issue 6	Level I		0.002303	2.00	.0366	0.004607	434133410.04
1752001600	Miscellaneous	FS1,FS2	Bellcore Issue 6	Level I		0.030000	2.00	.4761	0.060000	33333333.33
105A510213	Resistor	R204	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
105A532413	Resistor	R678	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
105A501133	Resistor	R754	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
1129610051	Capacitor	C114,C125,C342,C343,C403,C406-C417,C435,C445,C476,C515,C537-C605,C66	Bellcore Issue 6	Level I		0.004607	14.00	.5118	0.064496	217066705.02
1129610051	Capacitor	C746,C762,C773,C83,C85	Bellcore Issue 6	Level I		0.004607	5.00	.1828	0.023034	217066705.02
1315700310	Semiconductor	Q36,Q38	Bellcore Issue 6	Level I		0.081450	2.00	1.2927	0.162899	12277519.57
1121701790	Capacitor	C172,C173,C659,C663,C745	Bellcore Issue 6	Level I		0.004607	5.00	.1828	0.023034	217066705.02
14S3065500	Integrated Circuit	U1	Bellcore Issue 6	Level I	12.30	0.148667	1.00	1.1798	0.148667	6726453.78
14S5A12505	Integrated Circuit	U34	Bellcore Issue 6	Level I		0.041183	1.00	.3268	0.041183	24282005.36
14S5812502	Integrated Circuit	U31,U35	Bellcore Issue 6	Level I		0.041183	2.00	.6536	0.082366	24282005.36
1315230111	Integrated Circuit	Q24,Q37	Bellcore Issue 6	Level I		0.062934	2.00	.9989	0.125868	15889612.13
1050502204	Resistor	R343-R346	Bellcore Issue 6	Level I		0.002303	4.00	.0731	0.009214	434133410.04
14S4081110	Integrated Circuit	U14,U18,U41	Bellcore Issue 6	Level I		0.062934	3.00	1.4983	0.188803	15889612.13
14S4653700	Integrated Circuit	U17	Bellcore Issue 6	Level I		0.062934	1.00	.4994	0.062934	15889612.13
11C2510190	Capacitor	C612,C636,C753,C754,C757,C761-C764,C765,C766	Bellcore Issue 6	Level I		0.004607	9.00	.3290	0.041462	217066705.02
11E9647680	Capacitor	C158,C404,C484,C560,C565,C68,-C784,C789,C793,C795,C797,C800-C804	Bellcore Issue 6	Level I		0.004607	13.00	.4753	0.059889	217066705.02
16515A0996	Connection	DIMM1	Bellcore Issue 6	Level I		0.118639	1.00	.9415	0.118639	8428960.07

AAEON Reliability Prediction Report

Part Number 9697931004
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Description Top-level assembly
File Name GENE-9310.RPJ
Time 11:52 上午
Failure Rate 12.601191
MTBF 79,358

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
121230603S	Inductor	L60-L62	Bellcore Issue 6	Level I		0.002303	3.00	.0548	0.006910	434133410.04
121230805X	Inductor	L45,L46,L7,L70,L72,L77,L8	Bellcore Issue 6	Level I		0.002303	7.00	.1280	0.016124	434133410.04
121230805Z	Inductor	L78	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
105A501623	Resistor	R680	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
1315442910	Semiconductor	U47,U51	Bellcore Issue 6	Level I		0.081450	2.00	1.2927	0.162899	12277519.57
1189622190	Capacitor	C137	Bellcore Issue 6	Level I		0.004607	1.00	.0366	0.004607	217066705.02
14S4826100	Integrated Circuit	U2	Bellcore Issue 6	Level I		0.041183	1.00	.3268	0.041183	24282005.36
1121501690	Capacitor	BC1,BC3,BC4,C101-C103,C117,C1-19,C12,C121,C122,C126,C127,C12-9-C131,C139	Bellcore Issue 6	Level I		0.004607	17.00	.6215	0.078317	217066705.02
1121501690	Capacitor	C142-C145,C147,C149-C153,C155-C157,C16,C161,C18,C183,C231-C-233,C236,C238	Bellcore Issue 6	Level I		0.004607	22.00	.8043	0.101351	217066705.02
1121501690	Capacitor	C239,C249,C250,C256,C257,C266-C27,C270,C279,C285,C290,C295,-C298,C299	Bellcore Issue 6	Level I		0.004607	14.00	.5118	0.064496	217066705.02
1121501690	Capacitor	C318,C322,C327,C334,C341,C344-C353-C360,C37,C374-C376,C380,-C382-C388	Bellcore Issue 6	Level I		0.004607	26.00	.9505	0.119779	217066705.02
1121501690	Capacitor	C396,C400-C402,C405,C413,C414-C418,C425-C427,C429,C431,C438-C439,C444	Bellcore Issue 6	Level I		0.004607	16.00	.5849	0.073710	217066705.02
1121501690	Capacitor	C449,C451,C454,C455,C46,C460,-C461,C463,C464,C466-C470,C472-C473,C479	Bellcore Issue 6	Level I		0.004607	17.00	.6215	0.078317	217066705.02
1121501690	Capacitor	C481,C485,C491,C494,C496-C500-C50,C503,C506-C508,C514,C517,-C52,C526,C528	Bellcore Issue 6	Level I		0.004607	19.00	.6946	0.087531	217066705.02
1121501690	Capacitor	C53,C54,C541,C543-C545,C550-C-552,C555,C557,C559,C561,C563,C-564,C566,C571	Bellcore Issue 6	Level I		0.004607	17.00	.6215	0.078317	217066705.02
1121501690	Capacitor	C572,C574-C576,C582,C586,C599-C600,C602,C603,C63,C632-C634,-C64,C65,C661	Bellcore Issue 6	Level I		0.004607	17.00	.6215	0.078317	217066705.02
1121501690	Capacitor	C67,C670,C69,C702,C71,C75,C76-C775,C776,C780-C783,C786-C788-C79,C790-C792	Bellcore Issue 6	Level I		0.004607	20.00	.7312	0.092138	217066705.02
1121501690	Capacitor	C796,C798,C8,C801,C805,C82,C84-C88,C89,C93-C96,C99	Bellcore Issue 6	Level I		0.004607	14.00	.5118	0.064496	217066705.02

AAEON Reliability Prediction Report

Part Number 9697931004
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Description Top-level assembly
File Name GENE-9310.RPJ
Time 11:52 上午
Failure Rate 12.601191
MTBF 79,358

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1129647650	Capacitor	C399,C407,C440,C604,C695,C771-C785	Bellcore Issue 6	Level I		0.004607	7.00	.2559	0.032248	217066705.02
1651611991	Connection	U16	Bellcore Issue 6	Level I		0.001186	1.00	.0094	0.001186	842896006.79
14S4294501	Integrated Circuit	U8	Bellcore Issue 6	Level I		0.041183	1.00	.3268	0.041183	24282005.36
14S428010D	Integrated Circuit	U15	Bellcore Issue 6	Level I	10.90	0.076167	1.00	.6044	0.076167	13129058.17
1654030001	Connection	CN12	Bellcore Issue 6	Level I		0.017796	1.00	.1412	0.017796	56193067.12
1300581940	Semiconductor	D12,D13,D17,D18	Bellcore Issue 6	Level I		0.024435	4.00	.7756	0.097740	40925065.22
1059700201	Resistor	R929,R930	Bellcore Issue 6	Level I		0.002303	2.00	.0366	0.004607	434133410.04
1124515880	Capacitor	C169	Bellcore Issue 6	Level I		0.004607	1.00	.0366	0.004607	217066705.02
1189633192	Capacitor	C148	Bellcore Issue 6	Level I		0.004607	1.00	.0366	0.004607	217066705.02
1122522890	Capacitor	C443,C456-C458,C471,C475,C72	Bellcore Issue 6	Level I		0.004607	7.00	.2559	0.032248	217066705.02
14S2591200	Integrated Circuit	Q7	Bellcore Issue 6	Level I		0.062934	1.00	.4994	0.062934	15889612.13
1050547004	Resistor	R577,R711	Bellcore Issue 6	Level I		0.002303	2.00	.0366	0.004607	434133410.04
105A544213	Resistor	R708	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
1050519114	Resistor	R243	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
1189622850	Capacitor	C393,C394,C415,C77,C80	Bellcore Issue 6	Level I		0.004607	5.00	.1828	0.023034	217066705.02
121110156A	Inductor	L14	Bellcore Issue 6	Level I		0.087531	1.00	.6946	0.087531	11424563.42
1211105673	Inductor	L15,L17	Bellcore Issue 6	Level I		0.087531	2.00	1.3892	0.175061	11424563.42
1211101060	Inductor	L18,L21	Bellcore Issue 6	Level I		0.087531	2.00	1.3892	0.175061	11424563.42
16540E0201	Connection	CN25	Bellcore Issue 6	Level I		0.083047	1.00	.6590	0.083047	12041371.53
1050512164	Resistor	R69,R71,R74,R77,R81	Bellcore Issue 6	Level I		0.002303	5.00	.0914	0.011517	434133410.04
1050568124	Resistor	R148	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
1050522104	Resistor	R149,R566	Bellcore Issue 6	Level I		0.002303	2.00	.0366	0.004607	434133410.04
1050524904	Resistor	R151,R152,R216,R426,R611,R668	Bellcore Issue 6	Level I		0.002303	6.00	.1097	0.013821	434133410.04
1050580664	Resistor	R153,R154	Bellcore Issue 6	Level I		0.002303	2.00	.0366	0.004607	434133410.04
1050525504	Resistor	R475	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
1050520004	Resistor	R516	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
1050533034	Resistor	R647	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
1050549904	Resistor	R714	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
105A501413	Resistor	R730	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04
105A518213	Resistor	R738	Bellcore Issue 6	Level I		0.002303	1.00	.0183	0.002303	434133410.04

