

GENE-QM77

Rev. B

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 19.678859 ppm MTBF: 50,816 Hours
---------	---

Issue date	Approval	Test Engineer
2012/10/22	Tom Lin	Jack Huang

Reliability Prediction (MTBF)

I . Model Name: GENE-QM77 Rev.B

II . Prediction Date: Oct. 22, 2012

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

IV . Predicted by: Jack Huang

V . Equipment: Relex Ver.7.3 Visual Reliability Software

VI. Simulation Environment:

- Temperature: 25 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-QM77 Rev.B (9697QM7755-D):

- Failure Rate: 19.678859 ppm
- MTBF: 50,815 Hours

AAEON Reliability Prediction Report

Part Number 9697QM7755-D
Reference Des
Date 10. 23, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name GENE-QM77 test.RPJ
Time 9:05
Failure Rate 19.678859
MTBF 50,816

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
GENE-QM77 Rev.B	9697QM7755-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	19.68	50815.95

AAEON Reliability Prediction Report

Part Number 9697QM7755-D
Reference Des
Date 10. 23, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name GENE-QM77 test.RPJ
Time 9:05
Failure Rate 19.678859
MTBF 50,816

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
11E9501091	Capacitor	C11,C122,C13,C21, C23,C24,C241,C247, C25,C267,C268,C269, C27,C272,C274,C277, C278,C291,C294, C295,C301,C307, C311,C315,C349, C376,C377,C378, C379,C380,C381, C382,C385,C387, C389,C390,C393, C396,C397,C398, C399,C403,C404,	Telcordia Issue 1	Level I		127.00	0.004535	2.9270	220487045.01
1124410191	Capacitor	C10,C12,C151,C158, C18,C218,C219,C220, C235,C35,C39,C43, C712,C713	Telcordia Issue 1	Level I		14.00	0.004535	.3227	220487045.01
11E9622050	Capacitor	C100,C105,C110, C111,C116,C120, C125,C126,C129,C15, C161,C168,C19,C198, C223,C250,C271, C290,C293,C309, C312,C317,C318, C324,C325,C326, C330,C335,C336, C337,C339,C341, C345,C347,C348, C350,C351,C364, C365,C366,C367,	Telcordia Issue 1	Level I		92.00	0.004535	2.1203	220487045.01
11E9510050	Capacitor	C108,C109,C115, C118,C190,C20,C216, C259,C275,C276,C36, C38,C486,C489,C521, C546,C593,C608, C680,C681,C721,C87, C91,C94	Telcordia Issue 1	Level I		24.00	0.004535	.5531	220487045.01
11C2501790	Capacitor	C137,C138,C141, C142,C147,C150, C154,C165,C172, C222,C28,C289,C321, C438,C454,C464, C465,C466,C467, C487,C501,C511, C545,C591,C691, C692,C702,C88	Telcordia Issue 1	Level I		28.00	0.004535	.6453	220487045.01

AAEON Reliability Prediction Report

Part Number 9697QM7755-D
Reference Des
Date 10. 23, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name GENE-QM77 test.RPJ
Time 9:05
Failure Rate 19.678859
MTBF 50,816

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
11E9610080	Capacitor	C140,C217,C260, C261,C279,C280, C305,C314,C33,C361, C362,C363,C374, C425,C428,C429, C440,C441,C448, C449,C463,C472, C476,C48,C492,C500, C506,C51,C510,C513, C544,C552,C570, C574,C575,C592, C594,C60,C61,C613, C638,C705,C83	Telcordia Issue 1	Level I		43.00	0.004535	.9910	220487045.01
1129710090	Capacitor	C196,C202,C203, C204,C40	Telcordia Issue 1	Level I		5.00	0.004535	.1152	220487045.01
11E9522680	Capacitor	C170,C44,C611,C76	Telcordia Issue 1	Level I		4.00	0.004535	.0922	220487045.01
1129522790	Capacitor	C152,C323,C353, C354,C369,C394, C400,C401,C402, C479,C71	Telcordia Issue 1	Level I		11.00	0.004535	.2535	220487045.01
1124418090	Capacitor	C128,C133,C256, C270,C74,C80	Telcordia Issue 1	Level I		6.00	0.004535	.1383	220487045.01
11C4522290	Capacitor	C102,C331,C342, C343,C409	Telcordia Issue 1	Level I		5.00	0.004535	.1152	220487045.01
11C1547890	Capacitor	C112	Telcordia Issue 1	Level I		1.00	0.004535	.0230	220487045.01
1122522890	Capacitor	C192,C664,C666	Telcordia Issue 1	Level I		3.00	0.004535	.0691	220487045.01
1124427091	Capacitor	C155,C176,C187, C188,C189,C191, C210	Telcordia Issue 1	Level I		7.00	0.004535	.1613	220487045.01
11E4433090	Capacitor	C177,C183,C340, C386,C418	Telcordia Issue 1	Level I		5.00	0.004535	.1152	220487045.01
1124547190	Capacitor	C194,C195,C201, C205,C206,C214, C230,C234,C236, C237,C238,C239, C240,C243,C244, C245,C246,C248, C254,C338,C439, C667,C678,C699	Telcordia Issue 1	Level I		24.00	0.004535	.5531	220487045.01
11E1647650	Capacitor	C249	Telcordia Issue 1	Level I		1.00	0.000237	.0012	4212615279.72
11E1622060	Capacitor	C253,C266	Telcordia Issue 1	Level I		2.00	0.004535	.0461	220487045.01
11E9547680	Capacitor	C226,C298,C676	Telcordia Issue 1	Level I		3.00	0.004535	.0691	220487045.01
1124533191	Capacitor	C320,C322,C434	Telcordia Issue 1	Level I		3.00	0.004535	.0691	220487045.01
11C4515190	Capacitor	C329,C437	Telcordia Issue 1	Level I		2.00	0.004535	.0461	220487045.01
11E9547790	Capacitor	C408	Telcordia Issue 1	Level I		1.00	0.004535	.0230	220487045.01

AAEON Reliability Prediction Report

Part Number 9697QM7755-D
Reference Des
Date 10. 23, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

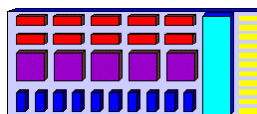


Description Top-level assembly
File Name GENE-QM77 test.RPJ
Time 9:05
Failure Rate 19.678859
MTBF 50,816

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1129622690	Capacitor	C421,C422,C423, C424,C427,C442, C443,C444,C445, C446,C447,C456, C457,C459,C460, C461,C462,C474, C475,C477,C478, C480,C481,C502, C503,C504,C505, C507,C508,C525, C526,C527,C529, C530,C537	Telcordia Issue 1	Level I		35.00	0.004535	.8066	220487045.01
11C4568190	Capacitor	C433	Telcordia Issue 1	Level I		1.00	0.004535	.0230	220487045.01
11C1501080	Capacitor	C468	Telcordia Issue 1	Level I		1.00	0.004535	.0230	220487045.01
1305080040	Semiconductor	D1,D14,D15,D16,D17, D18,D19,D20,D21, D23,D25,D26,D27, D28,D29,D30,D31, D32,D33,D34,D35, D36,D4,D5,D6,D7,D8	Telcordia Issue 1	Level I		27.00	0.023881	3.2765	41874327.58
1301005444	Semiconductor	D2,D22,D3,D39,D40, D41,D43,D44	Telcordia Issue 1	Level I		8.00	0.023881	.9708	41874327.58
1304500240	Semiconductor	D9	Telcordia Issue 1	Level I		1.00	0.004877	.0248	205063180.81
1304300140	Semiconductor	D10,D13	Telcordia Issue 1	Level I		2.00	0.004877	.0496	205063180.81
1301053040	Semiconductor	D11,D37	Telcordia Issue 1	Level I		2.00	0.023881	.2427	41874327.58
1304000043	Semiconductor	D12	Telcordia Issue 1	Level I		1.00	0.004877	.0248	205063180.81
1301400642	Semiconductor	D42	Telcordia Issue 1	Level I		1.00	0.023881	.1214	41874327.58
1189633194	Capacitor	EC2,EC3	Telcordia Issue 1	Level I		2.00	0.004535	.0461	220487045.01
1212306030	Resistor	FB1,FB11,FB12,FB13, FB15,FB16,FB19,FB2, FB21,FB23,FB24, FB29,FB30,FB31, FB34,FB35,FB4,FB5, FB6	Telcordia Issue 1	Level I		19.00	0.011379	1.0987	87878027.07
12123C0007	Inductor	FB3	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
12123D0001	Inductor	FB20,FB22,FB25, FB26,FB27,FB28, FB32,FB33,FB7,FB8, FB9	Telcordia Issue 1	Level I		11.00	0.002268	.1268	440974090.03
121110336Y	Inductor	L10	Telcordia Issue 1	Level I		1.00	0.086173	.4379	11604581.32
1211100113	Inductor	L11,L12,L13,L15	Telcordia Issue 1	Level I		4.00	0.086173	1.7516	11604581.32
1211100160	Inductor	L14	Telcordia Issue 1	Level I		1.00	0.086173	.4379	11604581.32
121110476Q	Inductor	L16	Telcordia Issue 1	Level I		1.00	0.086173	.4379	11604581.32
1212308054	Resistor	FB36	Telcordia Issue 1	Level I		1.00	0.011379	.0578	87878027.07

AAEON Reliability Prediction Report

Part Number 9697QM7755-D
Reference Des
Date 10. 23, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name GENE-QM77 test.RPJ
Time 9:05
Failure Rate 19.678859
MTBF 50,816

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A700009	Resistor	R110,R126,R130, R142,R148,R156, R158,R159,R187, R188,R193,R195, R197,R200,R202, R203,R212,R214, R219,R221,R223, R225,R228,R238, R239,R241,R243, R248,R259,R261, R267,R269,R273, R277,R279,R282, R303,R326,R327,	Telcordia Issue 1	Level I		109.00	0.002268	1.2561	440974090.03
105A701059	Resistor	R129,R313,R323, R399,R419,R431, R536,R664,R9	Telcordia Issue 1	Level I		9.00	0.002268	.1037	440974090.03
105A700139	Resistor	R12,R150,R151,R18, R196,R201,R229, R235,R236,R253, R257,R280,R317,R32, R320,R324,R341, R349,R356,R364,R37, R407,R423,R425, R426,R427,R428, R429,R430,R440, R564,R565,R585, R608,R613,R617,R62, R627,R630,R642, R651,R663,R671,	Telcordia Issue 1	Level I		50.00	0.002268	.5762	440974090.03
1050507530	Resistor	R14,R310,R348,R685	Telcordia Issue 1	Level I		4.00	0.002268	.0461	440974090.03
105A702229	Resistor	R103,R104,R105, R106,R107,R108, R111,R112,R113, R114,R115,R116,R19, R20,R215,R218,R222, R284,R288,R493, R495,R557,R573, R602,R604,R609, R648,R717,R718	Telcordia Issue 1	Level I		29.00	0.002268	.3342	440974090.03
105A703309	Resistor	R122,R124,R125, R157,R206,R213,R23, R31,R484,R49,R55, R60,R645,R715,R719	Telcordia Issue 1	Level I		15.00	0.002268	.1729	440974090.03

AAEON Reliability Prediction Report

Part Number 9697QM7755-D
Reference Des
Date 10. 23, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

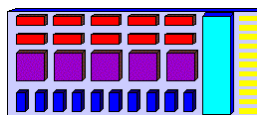


Description Top-level assembly
File Name GENE-QM77 test.RPJ
Time 9:05
Failure Rate 19.678859
MTBF 50,816

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A701039	Resistor	R147,R149,R152, R161,R162,R164, R168,R192,R199, R207,R210,R227, R244,R25,R251,R285, R321,R330,R34,R352, R360,R371,R376,R39, R395,R40,R405,R420, R421,R422,R43,R439, R45,R46,R461,R473, R482,R485,R488, R490,R513,R514, R515,R516,R517,	Telcordia Issue 1	Level I		93.00	0.002268	1.0717	440974090.03
105A700003	Resistor	FB14,FB17,FB18, R204,R208,R217, R242,R270,R289, R290,R308,R342, R363,R374,R38,R498, R500,R505,R52,R543, R551,R570,R633, R658,R670,R83	Telcordia Issue 1	Level I		26.00	0.002268	.2996	440974090.03
1050524934	Resistor	R41,R649,R654	Telcordia Issue 1	Level I		3.00	0.002268	.0346	440974090.03
105A501139	Resistor	R370,R466,R47,R636	Telcordia Issue 1	Level I		4.00	0.002268	.0461	440974090.03
105A730009	Resistor	R48	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
1050584514	Resistor	R51,R643,R644	Telcordia Issue 1	Level I		3.00	0.002268	.0346	440974090.03
105A500139	Resistor	R183,R437,R441, R477,R497,R566, R567,R568,R59,R669, R675,R676	Telcordia Issue 1	Level I		12.00	0.002268	.1383	440974090.03
105A501539	Resistor	R220,R533,R61,R634, R64,R641	Telcordia Issue 1	Level I		6.00	0.002268	.0691	440974090.03
105A501039	Resistor	R173,R311,R322, R329,R347,R66,R69, R75	Telcordia Issue 1	Level I		8.00	0.002268	.0922	440974090.03
105A566519	Resistor	R394,R638,R639,R68	Telcordia Issue 1	Level I		4.00	0.002268	.0461	440974090.03
105A747009	Resistor	R372,R455,R77,R84	Telcordia Issue 1	Level I		4.00	0.002268	.0461	440974090.03
105A505109	Resistor	R444,R450,R78,R80, R81	Telcordia Issue 1	Level I		5.00	0.002268	.0576	440974090.03
105A706209	Resistor	R99	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
105A705609	Resistor	R101	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
1054700289	Resistor	R102,R512,R529	Telcordia Issue 1	Level I		3.00	0.002268	.0346	440974090.03
1050704304	Resistor	R117,R424,R434	Telcordia Issue 1	Level I		3.00	0.002268	.0346	440974090.03
105A502039	Resistor	R118,R174,R181, R252,R332,R366, R403,R699,R713, R722,R723	Telcordia Issue 1	Level I		11.00	0.002268	.1268	440974090.03

AAEON Reliability Prediction Report

Part Number 9697QM7755-D
Reference Des
Date 10. 23, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name GENE-QM77 test.RPJ
Time 9:05
Failure Rate 19.678859
MTBF 50,816

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A513009	Resistor	R120,R121,R128	Telcordia Issue 1	Level I		3.00	0.002268	.0346	440974090.03
105A702209	Resistor	R123,R131,R132	Telcordia Issue 1	Level I		3.00	0.002268	.0346	440974090.03
105A580623	Resistor	R133	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
105A514009	Resistor	R135	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
105A554969	Resistor	R136	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
105A515009	Resistor	R137,R138,R139, R263,R264,R265, R266	Telcordia Issue 1	Level I		7.00	0.002268	.0807	440974090.03
1050520004	Resistor	R119,R140,R141	Telcordia Issue 1	Level I		3.00	0.002268	.0346	440974090.03
105A708229	Resistor	R143,R145,R154, R160,R163,R165, R166,R182,R185, R189,R194,R390, R397,R404,R534, R540,R547,R555, R623,R624,R625, R650	Telcordia Issue 1	Level I		22.00	0.002268	.2535	440974090.03
105A525563	Resistor	R144	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
105A549919	Resistor	R146	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
105A549969	Resistor	R167,R569	Telcordia Issue 1	Level I		2.00	0.002268	.0230	440974090.03
105A575009	Resistor	R170,R620	Telcordia Issue 1	Level I		2.00	0.002268	.0230	440974090.03
1050540224	Resistor	R184	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
105A503039	Resistor	R175,R256,R684, R698,R707	Telcordia Issue 1	Level I		5.00	0.002268	.0576	440974090.03
105A747039	Resistor	R177,R379	Telcordia Issue 1	Level I		2.00	0.002268	.0230	440974090.03
105A701069	Resistor	R180	Telcordia Issue 1	Level I		1.00	0.013606	.0691	73495681.67
1050505633	Resistor	R190	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
1059700001	Resistor	FB37,R191	Telcordia Issue 1	Level I		2.00	0.002268	.0230	440974090.03
1050514324	Resistor	R607	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
105A733009	Resistor	R250,R255,R258, R260,R268,R297, R300,R561,R677, R712	Telcordia Issue 1	Level I		10.00	0.002268	.1152	440974090.03
105A524913	Resistor	R272	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
1059520001	Resistor	R281	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
1059710001	Resistor	R286	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
1050502234	Resistor	R295	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
1050502734	Resistor	R298	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
105A562034	Resistor	R309	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
1050505124	Resistor	R319,R339	Telcordia Issue 1	Level I		2.00	0.002268	.0230	440974090.03
1050527424	Resistor	R357,R469	Telcordia Issue 1	Level I		2.00	0.002268	.0230	440974090.03
105A700109	Resistor	R361,R406,R471, R486	Telcordia Issue 1	Level I		4.00	0.002268	.0461	440974090.03

AAEON Reliability Prediction Report

Part Number 9697QM7755-D
Reference Des
Date 10. 23, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name GENE-QM77 test.RPJ
Time 9:05
Failure Rate 19.678859
MTBF 50,816

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A526114	Resistor	R369,R481	Telcordia Issue 1	Level I		2.00	0.002268	.0230	440974090.03
1050580614	Resistor	R373,R468	Telcordia Issue 1	Level I		2.00	0.002268	.0230	440974090.03
1050518714	Resistor	R377	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
1050542204	Resistor	R378	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
1050538314	Resistor	R381,R475	Telcordia Issue 1	Level I		2.00	0.002268	.0230	440974090.03
1050500334	Resistor	R387	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
1050520034	Resistor	R389,R687	Telcordia Issue 1	Level I		2.00	0.002268	.0230	440974090.03
1050536514	Resistor	R396,R478,R479	Telcordia Issue 1	Level I		3.00	0.002268	.0346	440974090.03
1050586604	Resistor	R400,R467	Telcordia Issue 1	Level I		2.00	0.002268	.0230	440974090.03
105A518229	Resistor	R438,R453	Telcordia Issue 1	Level I		2.00	0.002268	.0230	440974090.03
1050501004	Resistor	R442,R452,R552, R578,R583,R597	Telcordia Issue 1	Level I		6.00	0.002268	.0691	440974090.03
105A702263	Resistor	R449,R480	Telcordia Issue 1	Level I		2.00	0.002268	.0230	440974090.03
1050524924	Resistor	R454	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
105A510009	Resistor	R226,R299,R432, R458,R464	Telcordia Issue 1	Level I		5.00	0.002268	.0576	440974090.03
105A730039	Resistor	R463	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
1050564904	Resistor	R465	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
1050549904	Resistor	R470	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
1050519114	Resistor	R554,R679	Telcordia Issue 1	Level I		2.00	0.002268	.0230	440974090.03
105A700239	Resistor	R476	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
1050590964	Resistor	R483	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
105A701003	Resistor	R492,R523	Telcordia Issue 1	Level I		2.00	0.002268	.0230	440974090.03
105A523713	Resistor	R494	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
105A522663	Resistor	R511	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
1050700002	Resistor	R413,R519	Telcordia Issue 1	Level I		2.00	0.002268	.0230	440974090.03
1050501234	Resistor	R532,R616	Telcordia Issue 1	Level I		2.00	0.002268	.0230	440974090.03
1050533034	Resistor	R535,R539	Telcordia Issue 1	Level I		2.00	0.002268	.0230	440974090.03
1050524904	Resistor	R549,R575	Telcordia Issue 1	Level I		2.00	0.002268	.0230	440974090.03
105A537463	Resistor	R582	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
1050504724	Resistor	R178,R231,R245, R246,R247,R254, R275,R276,R283, R287,R292,R293, R294,R301,R302, R306,R333,R334, R380,R385,R666, R680,R714	Telcordia Issue 1	Level I		23.00	0.002268	.2650	440974090.03
105A536513	Resistor	R690	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03

AAEON Reliability Prediction Report

Part Number 9697QM7755-D
Reference Des
Date 10. 23, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

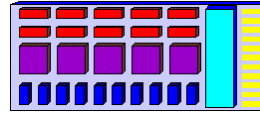


Description Top-level assembly
File Name GENE-QM77 test.RPJ
Time 9:05
Failure Rate 19.678859
MTBF 50,816

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
105A507509	Resistor	R109,R433,R701, R702,R703	Telcordia Issue 1	Level I		5.00	0.002268	.0576	440974090.03
1189633193	Capacitor	TC1,TC12,TC6	Telcordia Issue 1	Level I		3.00	0.004535	.0691	220487045.01
1189633151	Capacitor	TC16,TC17,TC18, TC19,TC2,TC21,TC24, TC25,TC27,TC5,TC7, TC8,TC9	Telcordia Issue 1	Level I		13.00	0.004535	.2996	220487045.01
1189622150	Capacitor	TC26,TC3,TC4	Telcordia Issue 1	Level I		3.00	0.004535	.0691	220487045.01
1189615151	Capacitor	TC10,TC11,TC13, TC14,TC15,TC28	Telcordia Issue 1	Level I		6.00	0.004535	.1383	220487045.01
1189656180	Capacitor	TC20,TC22,TC23	Telcordia Issue 1	Level I		3.00	0.004535	.0691	220487045.01
1315422410	Semiconductor	U1	Telcordia Issue 1	Level I		1.00	0.079603	.4045	12562298.27
14S2321900	Semiconductor	U2	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
1314111715	Integrated Circuit	U3	Telcordia Issue 1	Level I		1.00	0.059366	.3017	16844654.92
1315446310	Semiconductor	U13,U4	Telcordia Issue 1	Level I		2.00	0.079603	.8090	12562298.27
14S5A00704	Integrated Circuit	U24,U45,U48,U5,U64, U65,U74,U97	Telcordia Issue 1	Level I		8.00	0.026183	1.0644	38193355.79
14S5A00601	Integrated Circuit	U11,U6	Telcordia Issue 1	Level I		2.00	0.026183	.2661	38193355.79
14S634022E	Integrated Circuit	U7	Telcordia Issue 1	Level I		1.00	0.022943	.1166	43586356.53
14S3111701	Integrated Circuit	U8	Telcordia Issue 1	Level I		1.00	0.059366	.3017	16844654.92
14S3089200	Integrated Circuit	U9	Telcordia Issue 1	Level I	16.80	1.00	0.190024	.9656	5262502.45
1315482410	Semiconductor	U10,U21,U23,U30, U37,U38,U40,U59, U71,U86,U88,U95	Telcordia Issue 1	Level I		12.00	0.079603	4.8541	12562298.27
14S3524700	Integrated Circuit	U12	Telcordia Issue 1	Level I		1.00	0.059366	.3017	16844654.92
14S3524701	Integrated Circuit	U14	Telcordia Issue 1	Level I		1.00	0.059366	.3017	16844654.92
1315482110	Semiconductor	U15,U16,U17,U20, U25,U29,U41,U43, U44,U61	Telcordia Issue 1	Level I		10.00	0.079603	4.0451	12562298.27
14S4872800	Semiconductor	U18	Telcordia Issue 1	Level I		1.00	0.159207	.8090	6281149.14
14S5A12506	Integrated Circuit	U19	Telcordia Issue 1	Level I		1.00	0.026183	.1330	38193355.79
14S4021301	Integrated Circuit	U100,U22,U26,U31	Telcordia Issue 1	Level I		4.00	0.059366	1.2067	16844654.92
14S9108500	Integrated Circuit	U27,U34,U35,U54, U99	Telcordia Issue 1	Level I		5.00	0.026183	.6652	38193355.79
14S5912300	Integrated Circuit	U32	Telcordia Issue 1	Level I		1.00	0.026183	.1330	38193355.79
14S4QM7700	Integrated Circuit	U33	Telcordia Issue 1	Level I	14.90	1.00	0.060298	.3064	16584399.10
14S9811500	Integrated Circuit	U36	Telcordia Issue 1	Level I		1.00	0.059366	.3017	16844654.92
14S6212844	Integrated Circuit	U42	Telcordia Issue 1	Level I		1.00	0.070411	.3578	14202225.56
1315667910	Semiconductor	U46,U69	Telcordia Issue 1	Level I		2.00	0.079603	.8090	12562298.27
14S6366B00	Integrated Circuit	U49	Telcordia Issue 1	Level I		1.00	0.022943	.1166	43586356.53
14S4811102	Integrated Circuit	U50	Telcordia Issue 1	Level I		1.00	0.026183	.1330	38193355.79
14S4257900	Integrated Circuit	U51	Telcordia Issue 1	Level I		1.00	0.026183	.1330	38193355.79
14S5A00802	Integrated Circuit	U52,U53,U55,U56	Telcordia Issue 1	Level I		4.00	0.026183	.5322	38193355.79

AAEON Reliability Prediction Report

Part Number 9697QM7755-D
Reference Des
Date 10. 23, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name GENE-QM77 test.RPJ
Time 9:05
Failure Rate 19.678859
MTBF 50,816

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1315970211	Semiconductor	U60,U62,U63	Telcordia Issue 1	Level I		3.00	0.079603	1.2135	12562298.27
14S4963501	Integrated Circuit	U66	Telcordia Issue 1	Level I		1.00	0.059366	.3017	16844654.92
14S3128422	Integrated Circuit	U67	Telcordia Issue 1	Level I		1.00	0.059366	.3017	16844654.92
14S3121600	Integrated Circuit	U68	Telcordia Issue 1	Level I		1.00	0.059366	.3017	16844654.92
14S9751100	Integrated Circuit	U70	Telcordia Issue 1	Level I		1.00	0.026183	.1330	38193355.79
1314880510	Semiconductor	U72,U84	Telcordia Issue 1	Level I		2.00	0.079603	.8090	12562298.27
14S4048502	Integrated Circuit	U75,U80	Telcordia Issue 1	Level I		2.00	0.059366	.6033	16844654.92
14S5A01402	Integrated Circuit	U77,U78,U94	Telcordia Issue 1	Level I		3.00	0.026183	.3991	38193355.79
14S2083100	Integrated Circuit	U79	Telcordia Issue 1	Level I		1.00	0.026183	.1330	38193355.79
14S5A00821	Integrated Circuit	U81,U87	Telcordia Issue 1	Level I		2.00	0.026183	.2661	38193355.79
14S5A03200	Integrated Circuit	U82	Telcordia Issue 1	Level I		1.00	0.026183	.1330	38193355.79
14S4121601	Integrated Circuit	U83	Telcordia Issue 1	Level I		1.00	0.026183	.1330	38193355.79
14S9620800	Integrated Circuit	U85	Telcordia Issue 1	Level I		1.00	0.026183	.1330	38193355.79
14S2591200	Integrated Circuit	U89	Telcordia Issue 1	Level I	43.10	1.00	0.932931	4.7408	1071890.52
14S5A00702	Integrated Circuit	U90	Telcordia Issue 1	Level I		1.00	0.059366	.3017	16844654.92
14S3587000	Integrated Circuit	U91,U92	Telcordia Issue 1	Level I		2.00	0.059366	.6033	16844654.92
14S3121800	Integrated Circuit	U93	Telcordia Issue 1	Level I		1.00	0.059366	.3017	16844654.92
1315155510	Semiconductor	U102,U96,U98	Telcordia Issue 1	Level I		3.00	0.079603	1.2135	12562298.27
14S4600004	Integrated Circuit	U101	Telcordia Issue 1	Level I		1.00	0.030967	.1574	32292209.92
14S3E00100	Integrated Circuit	U103,U105	Telcordia Issue 1	Level I		2.00	0.059366	.6033	16844654.92
14S9341101	Integrated Circuit	U104	Telcordia Issue 1	Level I		1.00	0.059366	.3017	16844654.92
1315190100	Semiconductor	U107	Telcordia Issue 1	Level I		1.00	0.159207	.8090	6281149.14
123132505D	Miscellaneous	Y1,Y3,Y4	Telcordia Issue 1	Level I		3.00	0.150000	2.2867	6666666.67
1231332721	Miscellaneous	Y2	Telcordia Issue 1	Level I		1.00	0.150000	.7622	6666666.67
1231327053	Miscellaneous	Y5	Telcordia Issue 1	Level I		1.00	0.150000	.7622	6666666.67
14S4250010	Integrated Circuit	U28	Telcordia Issue 1	Level I	17.80	1.00	0.070281	.3571	14228587.01
1050560414	Resistor	R474	Telcordia Issue 1	Level I		1.00	0.002268	.0115	440974090.03
105A551119	Resistor	R611	Telcordia Issue 1	Level I		1.00	0.003123	.0159	320205543.99
1050526124	Resistor	R621	Telcordia Issue 1	Level I		1.00	0.003123	.0159	320205543.99
14S3020901	Integrated Circuit	U47	Telcordia Issue 1	Level I		1.00	0.026183	.1330	38193355.79
14S3104500	Integrated Circuit	U57,U58	Telcordia Issue 1	Level I		2.00	0.059366	.6033	16844654.92
14S6324642	Integrated Circuit	U73	Telcordia Issue 1	Level I	19.20	1.00	0.085848	.4362	11648457.68
17592HD050	Miscellaneous	U28	Telcordia Issue 1	Level I		1.00	0.600000	3.0490	1666666.67
1655902030	Connection	BAT1	Telcordia Issue 1	Level I		1.00	0.001138	.0058	878780270.71
1655305020	Connection	CN1,CN7	Telcordia Issue 1	Level I		2.00	0.002845	.0289	351512108.28
1652602105	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.001138	.0058	878780270.71

