

GENE-U15B

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 14.997276 ppm MTBF: 66,679 Hours
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Issue date	Approval	Test Engineer
2011/05/05	Jansin Lee	Jessica Chou

Reliability Prediction (MTBF)

I . Model Name: TF-GENE-U15B-A10 (9697U15B11-D)

II . Prediction Date: May 5th, 2011

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: 22.7 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:

TF-GENE-U15B-A10 (9697U15B11-D):

- Failure Rate: 14.997276 ppm
- MTBF: 66,679 Hours

AAEON Reliability Prediction Report

Part Number 9697U15B11-D
Reference Des
Date 05. 5, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 22.70

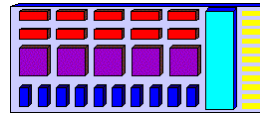


Description Top-level assembly
File Name GENE-U15B.RPJ
Time 14:27
Failure Rate 14.997276
MTBF 66,679

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-GENE-U15B-A10	9697U15B11-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	15.00	66678.78

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Description Top-level assembly
File Name GENE-U15B.RPJ
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Failure Rate 14.997276
MTBF 66,679

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A512009	Resistor	R4	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
1214309006	Inductor	CH2,CH3,CH4,CH5, CH7,CH8	Telcordia Issue 1	Level I		6.00	0.002167	.0867	461464811.81
16515A0997	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.100813	.6722	9919314.91
1654030003	Connection	CN5	Telcordia Issue 1	Level I		1.00	0.015122	.1008	66128766.09
1655909032	Connection	CN8	Telcordia Issue 1	Level I		1.00	0.004537	.0302	220429220.29
1654926900	Connection	CN13A	Telcordia Issue 1	Level I		1.00	0.026211	.1748	38151211.20
1653005202	Connection	CN21,CN29,CN31, CN35	Telcordia Issue 1	Level I		4.00	0.001008	.0269	991931491.32
1654903900	Connection	CN38	Telcordia Issue 1	Level I		1.00	0.020163	.1344	49596574.57
1653212100	Connection	CN39	Telcordia Issue 1	Level I		1.00	0.006049	.0403	165321915.22
1174522180	Capacitor	CP1,CP2,CP3,CP4, CP5,CP6,CP8,CP9	Telcordia Issue 1	Level I		8.00	0.005383	.2872	185752798.14
1174510180	Capacitor	CP10	Telcordia Issue 1	Level I		1.00	0.005383	.0359	185752798.14
1121501691	Capacitor	C1,C100,C108,C109, C110,C129,C132, C133,C134,C135, C136,C137,C138, C139,C140,C141, C142,C143,C144, C145,C146,C151, C152,C153,C154, C155,C156,C157, C158,C159,C160, C161,C162,C168, C172,C174,C177, C178,C179,C183,	Telcordia Issue 1	Level I		213.00	0.004334	6.1554	230732405.90
1124522290	Capacitor	C166,C167,C4	Telcordia Issue 1	Level I		3.00	0.004334	.0867	230732405.90
11E9501090	Capacitor	C10,C11,C12,C13, C181,C182,C19,C20, C267,C283,C294, C309,C328,C329, C337,C343,C396, C413,C414,C491, C496,C532,C560, C561,C593,C60,C61, C612,C617,C619, C635,C637,C68,C69, C70,C706,C707,C71, C72,C73,C75,C76, C77,C78,C8,C80,	Telcordia Issue 1	Level I		51.00	0.004334	1.4738	230732405.90

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Description Top-level assembly
File Name GENE-U15B.RPJ
Time 14:27
Failure Rate 14.997276
MTBF 66,679

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1129610080	Capacitor	C107,C14,C147,C148, C149,C15,C150,C16, C17,C173,C18,C180, C191,C21,C22,C50, C57,C58,C95	Telcordia Issue 1	Level I		19.00	0.004334	.5491	230732405.90
11C1547890	Capacitor	C171,C23	Telcordia Issue 1	Level I		2.00	0.004334	.0578	230732405.90
1129710090	Capacitor	C33,C332,C333,C35, C543,C674,C697, C698,C699	Telcordia Issue 1	Level I		9.00	0.004334	.2601	230732405.90
11E9647680	Capacitor	C104,C229,C53,C59, C67,C74,C79	Telcordia Issue 1	Level I		7.00	0.004334	.2023	230732405.90
11E9622050	Capacitor	C433,C440,C89	Telcordia Issue 1	Level I		3.00	0.004334	.0867	230732405.90
11E4433090	Capacitor	C102,C103,C175, C176	Telcordia Issue 1	Level I		4.00	0.004334	.1156	230732405.90
11E1522680	Capacitor	C130,C131,C188, C492,C586	Telcordia Issue 1	Level I		5.00	0.004334	.1445	230732405.90
1129747090	Capacitor	C285,C311,C348, C349,C350,C351	Telcordia Issue 1	Level I		6.00	0.004334	.1734	230732405.90
11E9510051	Capacitor	C312,C677,C678, C686,C688	Telcordia Issue 1	Level I		5.00	0.004334	.1445	230732405.90
1124427091	Capacitor	C313,C428,C497, C695,C696,C702, C703	Telcordia Issue 1	Level I		7.00	0.004334	.2023	230732405.90
1129610051	Capacitor	C279,C300,C320, C321,C322,C323, C324,C325,C338, C341,C342,C405, C406,C429,C443, C450,C486,C488, C498,C509,C519, C527,C531,C537, C550,C554,C618, C667,C668,C669	Telcordia Issue 1	Level I		30.00	0.004334	.8670	230732405.90
1129701791	Capacitor	C330,C331,C356, C431,C432,C454, C455,C544,C564, C565	Telcordia Issue 1	Level I		10.00	0.004334	.2890	230732405.90
1124533282	Capacitor	C336	Telcordia Issue 1	Level I		1.00	0.004334	.0289	230732405.90
1189647180	Capacitor	C344	Telcordia Issue 1	Level I		1.00	0.004334	.0289	230732405.90
1189633160	Capacitor	C345,TC1,TC33	Telcordia Issue 1	Level I		3.00	0.004334	.0867	230732405.90
1124410191	Capacitor	C352,C353,C357, C358,C359,C397, C411,C412,C415, C416,C418,C426	Telcordia Issue 1	Level I		12.00	0.004334	.3468	230732405.90
1124547190	Capacitor	C355,C362,C444, C445,C447	Telcordia Issue 1	Level I		5.00	0.004334	.1445	230732405.90
1129715090	Capacitor	C361	Telcordia Issue 1	Level I		1.00	0.004334	.0289	230732405.90
11C4522190	Capacitor	C402	Telcordia Issue 1	Level I		1.00	0.004334	.0289	230732405.90
11C2510480	Capacitor	C419	Telcordia Issue 1	Level I		1.00	0.004334	.0289	230732405.90

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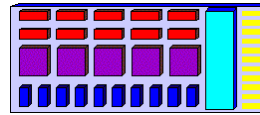


Description Top-level assembly
File Name GENE-U15B.RPJ
Time 14:27
Failure Rate 14.997276
MTBF 66,679

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1129710391	Capacitor	C490,C533,C534, C535,C536,C616	Telcordia Issue 1	Level I		6.00	0.004334	.1734	230732405.90
1121701081	Capacitor	C189,C354,C493, C522,C597,C598, C601,C602,C638, C648	Telcordia Issue 1	Level I		10.00	0.004334	.2890	230732405.90
11C2539290	Capacitor	C551,C552,C558, C559	Telcordia Issue 1	Level I		4.00	0.004334	.1156	230732405.90
1121501680	Capacitor	C553	Telcordia Issue 1	Level I		1.00	0.004334	.0289	230732405.90
11E2510060	Capacitor	C302,C596	Telcordia Issue 1	Level I		2.00	0.004334	.0578	230732405.90
1124533191	Capacitor	C600	Telcordia Issue 1	Level I		1.00	0.004334	.0289	230732405.90
11E1622060	Capacitor	C657,C658	Telcordia Issue 1	Level I		2.00	0.004334	.0578	230732405.90
1124456091	Capacitor	C690	Telcordia Issue 1	Level I		1.00	0.004334	.0289	230732405.90
1129522790	Capacitor	C691,C700,C701	Telcordia Issue 1	Level I		3.00	0.004334	.0867	230732405.90
11E9722090	Capacitor	C692,C693,C694	Telcordia Issue 1	Level I		3.00	0.004334	.0867	230732405.90
1305099140	Semiconductor	D2,D3	Telcordia Issue 1	Level I		2.00	0.074473	.9932	13427645.28
1301005440	Semiconductor	D32,D4,D44,D45,D6	Telcordia Issue 1	Level I		5.00	0.022342	.7449	44758817.60
1301053040	Semiconductor	D17,D50,D51,D52, D60,D61	Telcordia Issue 1	Level I		6.00	0.022342	.8938	44758817.60
1301003240	Semiconductor	D18	Telcordia Issue 1	Level I		1.00	0.022342	.1490	44758817.60
1301005441	Semiconductor	D20	Telcordia Issue 1	Level I		1.00	0.026004	.1734	38455400.98
1305080040	Semiconductor	D23,D24,D25,D26, D27,D28,D29,D30, D33,D34,D35,D37, D38,D40,D41,D46, D47,D48,D49,D53, D54	Telcordia Issue 1	Level I		21.00	0.022342	3.1284	44758817.60
1301005442	Semiconductor	D16	Telcordia Issue 1	Level I		1.00	0.022342	.1490	44758817.60
1212306035	Inductor	FB1,FB2,FB23,FB24, FB3,FB6	Telcordia Issue 1	Level I		6.00	0.002167	.0867	461464811.81
1212306030	Inductor	FB12,FB13,FB25, FB26,FB37,FB38, FB41,FB42,FB43, FB44,FB46,FB47, FB48,FB49,FB50, FB54,FB55	Telcordia Issue 1	Level I		17.00	0.002167	.2456	461464811.81
1212306031	Inductor	FB16,FB17	Telcordia Issue 1	Level I		2.00	0.002167	.0289	461464811.81
1212306033	Inductor	FB18,FB19,FB20, FB21,FB22,FB27, FB39,FB45	Telcordia Issue 1	Level I		8.00	0.002167	.1156	461464811.81
121230603T	Inductor	FB51,FB52,FB53	Telcordia Issue 1	Level I		3.00	0.002167	.0433	461464811.81
1752001601	Miscellaneous	FS4,FS5	Telcordia Issue 1	Level I		2.00	0.003000	.0400	333333333.33
1304001340	Semiconductor	LED1,LED3	Telcordia Issue 1	Level I		2.00	0.003945	.0526	253477902.54
1304101340	Semiconductor	LED4,LED5	Telcordia Issue 1	Level I		2.00	0.003945	.0526	253477902.54
121110336P	Inductor	L3	Telcordia Issue 1	Level I		1.00	0.082346	.5491	12143810.84
121110336L	Inductor	L12	Telcordia Issue 1	Level I	29.90	1.00	0.141364	.9426	7073918.41

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Temp. (°C) 22.70



Description Top-level assembly
File Name GENE-U15B.RPJ
Time 14:27
Failure Rate 14.997276
MTBF 66,679

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A701039	Resistor	R107,R110,R111, R121,R158,R159, R162,R163,R196, R200,R201,R227, R253,R272,R273, R274,R275,R276, R278,R292,R293,R32, R429,R430,R496, R497,R506,R507, R508,R522,R525,R53, R54,R548,R59,R617, R62,R633,R637,R65, R658,R659,R662,	Telcordia Issue 1	Level I		64.00	0.002167	.9248	461464811.81
105A510009	Resistor	R34,R35,R42,R452, R458,R728,R764, R765,R766,R767	Telcordia Issue 1	Level I		10.00	0.002167	.1445	461464811.81
105A522103	Resistor	R40	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A700009	Resistor	R102,R103,R115, R225,R263,R289, R407,R43,R433,R440, R441,R443,R447, R449,R456,R457, R459,R49,R498,R500, R528,R529,R530, R552,R553,R565, R566,R577,R585, R591,R595,R612, R626,R638,R660, R671,R673,R674, R675,R678,R68,R	Telcordia Issue 1	Level I		50.00	0.002167	.7225	461464811.81
1050524904	Resistor	R45,R50,R52	Telcordia Issue 1	Level I		3.00	0.002167	.0433	461464811.81

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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
105A704729	Resistor	R132,R191,R204, R205,R206,R207, R208,R209,R210, R212,R213,R214, R220,R223,R224, R264,R285,R383, R394,R401,R402, R414,R415,R417, R501,R55,R57,R574, R578,R586,R592, R605,R664,R665, R666,R670,R689, R690,R691,R695,	Telcordia Issue 1	Level I		47.00	0.002167	.6791	461464811.81
105A710053	Resistor	R539,R64	Telcordia Issue 1	Level I		2.00	0.013002	.1734	76910801.97
105A701033	Resistor	R69	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A524963	Resistor	R76	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
1050540224	Resistor	R84,R85,R88	Telcordia Issue 1	Level I		3.00	0.002167	.0433	461464811.81
105A702229	Resistor	R418,R532,R540, R541,R599,R601, R619,R644,R86,R983, R984	Telcordia Issue 1	Level I		11.00	0.002167	.1589	461464811.81
105A768009	Resistor	R92	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A704723	Resistor	R100,R101,R97,R99	Telcordia Issue 1	Level I		4.00	0.002167	.0578	461464811.81
105A522663	Resistor	R106	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A703909	Resistor	R113	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A708229	Resistor	R122,R953	Telcordia Issue 1	Level I		2.00	0.002167	.0289	461464811.81
105A530163	Resistor	R123	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A700003	Resistor	R124,R127,R128, R130,R131,R523, R544,R550,R558, R616,R645,R719, R987	Telcordia Issue 1	Level I		13.00	0.002167	.1878	461464811.81
1059700001	Resistor	R125,R126,R467, R632,R709,R735, R744,R763	Telcordia Issue 1	Level I		8.00	0.002167	.1156	461464811.81
105A701003	Resistor	R129	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A705603	Resistor	R147	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A501039	Resistor	R189,R190,R193, R434,R437,R438, R466,R538	Telcordia Issue 1	Level I		8.00	0.002167	.1156	461464811.81
105A710009	Resistor	R589,R615,R620	Telcordia Issue 1	Level I		3.00	0.002167	.0433	461464811.81
105A708209	Resistor	R237,R240,R241, R242,R243,R244, R245,R251	Telcordia Issue 1	Level I		8.00	0.002167	.1156	461464811.81
105A706829	Resistor	R246	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81

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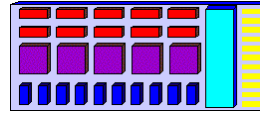


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File Name GENE-U15B.RPJ
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MTBF 66,679

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105A747003	Resistor	R247,R248	Telcordia Issue 1	Level I		2.00	0.002167	.0289	461464811.81
105A733009	Resistor	R267,R269,R590, R600,R717,R718, R990	Telcordia Issue 1	Level I		7.00	0.002167	.1011	461464811.81
105A501829	Resistor	R296	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
1050510034	Resistor	R319,R36,R38,R416, R464,R554,R555, R556,R613	Telcordia Issue 1	Level I		9.00	0.002167	.1300	461464811.81
105A704739	Resistor	R393,R611	Telcordia Issue 1	Level I		2.00	0.002167	.0289	461464811.81
105A501633	Resistor	R431	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A507523	Resistor	R432	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
1050540214	Resistor	R435	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A701053	Resistor	R436,R551	Telcordia Issue 1	Level I		2.00	0.002167	.0289	461464811.81
105A701009	Resistor	R439,R460,R461, R549,R563,R687	Telcordia Issue 1	Level I		6.00	0.002167	.0867	461464811.81
105A502839	Resistor	R446	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
1050517424	Resistor	R448	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A702039	Resistor	R451,R453,R503, R957	Telcordia Issue 1	Level I		4.00	0.002167	.0578	461464811.81
1050588724	Resistor	R454	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
1050549904	Resistor	R455	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
1050530124	Resistor	R462	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
1050513034	Resistor	R463,R465	Telcordia Issue 1	Level I		2.00	0.002167	.0289	461464811.81
105A517423	Resistor	R533	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A507533	Resistor	R535	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A535713	Resistor	R557	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A547509	Resistor	R560	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A747039	Resistor	R575	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A551119	Resistor	R579	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A704733	Resistor	R582,R584,R587	Telcordia Issue 1	Level I		3.00	0.002167	.0433	461464811.81
105A705623	Resistor	R583	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A501413	Resistor	R596	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
1050547004	Resistor	R608,R668,R669	Telcordia Issue 1	Level I		3.00	0.002167	.0433	461464811.81
1050501234	Resistor	R614	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A549919	Resistor	R621,R622,R625	Telcordia Issue 1	Level I		3.00	0.002167	.0433	461464811.81
105A515009	Resistor	R628,R629,R630	Telcordia Issue 1	Level I		3.00	0.002167	.0433	461464811.81
105A705139	Resistor	R682,R683,R684, R685	Telcordia Issue 1	Level I		4.00	0.002167	.0578	461464811.81
105A705133	Resistor	R723	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A701233	Resistor	R727	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A701059	Resistor	R731	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81

AAEON Reliability Prediction Report

Part Number 9697U15B11-D
Reference Des
Date 05. 5, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 22.70



Description Top-level assembly
File Name GENE-U15B.RPJ
Time 14:27
Failure Rate 14.997276
MTBF 66,679

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A705129	Resistor	R954	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A705629	Resistor	R970,R971	Telcordia Issue 1	Level I		2.00	0.002167	.0289	461464811.81
105A501223	Resistor	R975	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A507509	Resistor	R976,R977,R978, R980,R981,R982	Telcordia Issue 1	Level I		6.00	0.002167	.0867	461464811.81
105A703903	Resistor	R985,R986	Telcordia Issue 1	Level I		2.00	0.002167	.0289	461464811.81
105A702033	Resistor	R988	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
1189622151	Capacitor	TC4	Telcordia Issue 1	Level I		1.00	0.037805	.2521	26451506.44
1189633193	Capacitor	TC19,TC27,TC39	Telcordia Issue 1	Level I		3.00	0.004334	.0867	230732405.90
106B510030	Resistor	TH1	Telcordia Issue 1	Level I		1.00	0.010081	.0672	99193149.13
14S9781800	Integrated Circuit	U2	Telcordia Issue 1	Level I		1.00	0.050107	.3341	19957404.08
14S4053303	Integrated Circuit	U3	Telcordia Issue 1	Level I	28.50	1.00	0.107858	.7192	9271469.28
14S4410101	Integrated Circuit	U5	Telcordia Issue 1	Level I	34.60	1.00	0.500487	3.3372	1998055.77
14S4311401	Integrated Circuit	U7	Telcordia Issue 1	Level I	27.40	1.00	0.322881	2.1529	3097114.47
14S4100400	Integrated Circuit	U10	Telcordia Issue 1	Level I		1.00	0.022847	.1523	43768772.93
1651203291	Connection	U11	Telcordia Issue 1	Level I		1.00	0.016130	.1076	61995718.21
14S3088800	Integrated Circuit	U14	Telcordia Issue 1	Level I	25.60	1.00	0.093268	.6219	10721808.66
14S3917900	Integrated Circuit	U16	Telcordia Issue 1	Level I		1.00	0.050107	.3341	19957404.08
14S2362400	Integrated Circuit	U28	Telcordia Issue 1	Level I		1.00	0.050107	.3341	19957404.08
14S6308001	Integrated Circuit	U29	Telcordia Issue 1	Level I		1.00	0.030286	.2019	33018746.84
14S4825740	Integrated Circuit	U30	Telcordia Issue 1	Level I		1.00	0.022847	.1523	43768772.93
14S2041500	Integrated Circuit	U31	Telcordia Issue 1	Level I	26.60	1.00	0.307162	2.0481	3255607.70
14S2045400	Integrated Circuit	U32	Telcordia Issue 1	Level I		1.00	0.050107	.3341	19957404.08
1315992601	Semiconductor	U37,U38	Telcordia Issue 1	Level I		2.00	0.148946	1.9863	6713822.64
1315155510	Semiconductor	U41,U55,U56	Telcordia Issue 1	Level I		3.00	0.148946	2.9795	6713822.64
1315970211	Semiconductor	U42,U43,U57	Telcordia Issue 1	Level I		3.00	0.148946	2.9795	6713822.64
14S4021301	Integrated Circuit	U44,U50,U51	Telcordia Issue 1	Level I		3.00	0.050107	1.0023	19957404.08
14S4021301	Integrated Circuit	U45	Telcordia Issue 1	Level I	22.90	1.00	0.243055	1.6207	4114287.89
14S5A12503	Integrated Circuit	U46,U69	Telcordia Issue 1	Level I		2.00	0.050107	.6682	19957404.08
14S4048502	Integrated Circuit	U47,U49	Telcordia Issue 1	Level I		2.00	0.050107	.6682	19957404.08
14S5A12506	Integrated Circuit	U48	Telcordia Issue 1	Level I		1.00	0.022847	.1523	43768772.93
14S3524700	Integrated Circuit	U52	Telcordia Issue 1	Level I		1.00	0.050107	.3341	19957404.08
14S4033001	Integrated Circuit	U58	Telcordia Issue 1	Level I	28.90	1.00	0.110019	.7336	9089311.33
14S4751100	Integrated Circuit	U63	Telcordia Issue 1	Level I		1.00	0.022847	.1523	43768772.93
14S4195710	Integrated Circuit	U64	Telcordia Issue 1	Level I		1.00	0.050107	.3341	19957404.08
14S5A00601	Integrated Circuit	U66	Telcordia Issue 1	Level I		1.00	0.022847	.1523	43768772.93

AAEON Reliability Prediction Report

Part Number 9697U15B11-D
Reference Des
Date 05. 5, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 22.70

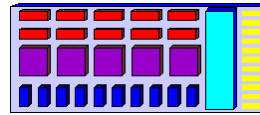


Description Top-level assembly
File Name GENE-U15B.RPJ
Time 14:27
Failure Rate 14.997276
MTBF 66,679

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S2591200	Integrated Circuit	U67	Telcordia Issue 1	Level I		1.00	0.050107	.3341	19957404.08
14S5A73200	Integrated Circuit	U70	Telcordia Issue 1	Level I		1.00	0.022847	.1523	43768772.93
14S5912300	Integrated Circuit	U72	Telcordia Issue 1	Level I		1.00	0.022847	.1523	43768772.93
14S9811500	Integrated Circuit	U73	Telcordia Issue 1	Level I		1.00	0.050107	.3341	19957404.08
14S2048800	Integrated Circuit	U74	Telcordia Issue 1	Level I		1.00	0.027009	.1801	37024879.36
1315667910	Semiconductor	U76,U77,U78,U82	Telcordia Issue 1	Level I		4.00	0.148946	3.9726	6713822.64
14S5A00821	Integrated Circuit	U79	Telcordia Issue 1	Level I		1.00	0.022847	.1523	43768772.93
14S4731702	Integrated Circuit	U80	Telcordia Issue 1	Level I	38.80	1.00	0.177088	1.1808	5646925.78
14S2200900	Integrated Circuit	U81	Telcordia Issue 1	Level I		1.00	0.050107	.3341	19957404.08
1315889611	Semiconductor	Q14,Q30,U83	Telcordia Issue 1	Level I		3.00	0.074473	1.4897	13427645.28
1231332721	Miscellaneous	Y1	Telcordia Issue 1	Level I		1.00	0.150000	1.0002	6666666.67
1233332722	Miscellaneous	Y4	Telcordia Issue 1	Level I		1.00	0.360000	2.4004	2777777.78
1654226300	Connection	CN13B	Telcordia Issue 1	Level I		1.00	0.026211	.1748	38151211.20
1181647080	Capacitor	TC29,TC38	Telcordia Issue 1	Level I		2.00	0.004334	.0578	230732405.90
1121722650	Capacitor	C591,C592,C594	Telcordia Issue 1	Level I		3.00	0.005383	.1077	185752798.14
11C1533890	Capacitor	C347	Telcordia Issue 1	Level I		1.00	0.004334	.0289	230732405.90
1122539980	Capacitor	C407	Telcordia Issue 1	Level I		1.00	0.004334	.0289	230732405.90
1124533080	Capacitor	C518	Telcordia Issue 1	Level I		1.00	0.004334	.0289	230732405.90
14S4600004	Integrated Circuit	U53	Telcordia Issue 1	Level I		1.00	0.022847	.1523	43768772.93
105A703323	Resistor	R581	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A701823	Resistor	R588	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
105A500103	Resistor	R531	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
1189615151	Capacitor	C346,TC21,TC22,TC24,TC25,TC26,TC31,TC32,TC36,TC41,TC42	Telcordia Issue 1	Level I		11.00	0.004334	.3179	230732405.90
1189622150	Capacitor	TC2,TC3,TC34	Telcordia Issue 1	Level I		3.00	0.004334	.0867	230732405.90
105A710033	Resistor	R95	Telcordia Issue 1	Level I		1.00	0.002167	.0144	461464811.81
1050505604	Resistor	R160,R161,R164,R165,R166,R167,R168,R169,R170,R172,R173,R174,R175,R176,R177,R178,R179,R180,R181,R182,R183,R184,R185,R186, R188	Telcordia Issue 1	Level I		25.00	0.002167	.3612	461464811.81
14S634022E	Integrated Circuit	U12	Telcordia Issue 1	Level I		1.00	0.022259	.1484	44925499.60
123131435J	Miscellaneous	Y2	Telcordia Issue 1	Level I		1.00	0.150000	1.0002	6666666.67
123132505D	Miscellaneous	Y5,Y7	Telcordia Issue 1	Level I		2.00	0.150000	2.0004	6666666.67

AAEON Reliability Prediction Report

Part Number 9697U15B11-D
Reference Des
Date 05. 5, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 22.70



Description Top-level assembly
File Name GENE-U15B.RPJ
Time 14:27
Failure Rate 14.997276
MTBF 66,679

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S4160040	Integrated Circuit	U1	Telcordia Issue 1	Level I	28.50	1.00	0.107858	.7192	9271469.28
14S9024004	Integrated Circuit	U13	Telcordia Issue 1	Level I	20.50	1.00	0.071766	.4785	13934130.18
1301005444	Semiconductor	D12,D5,D57,D58,D8	Telcordia Issue 1	Level I		5.00	0.022342	.7449	44758817.60
1655902030	Connection	BAT1	Telcordia Issue 1	Level I		1.00	0.001008	.0067	991931491.32
1655305020	Connection	CN6	Telcordia Issue 1	Level I		1.00	0.002520	.0168	396772596.53
165251420B	Connection	CN7	Telcordia Issue 1	Level I		1.00	0.001008	.0067	991931491.32
1654409103	Connection	CN11	Telcordia Issue 1	Level I		1.00	0.113415	.7562	8817168.81
1655909031	Connection	CN12,CN18,CN20	Telcordia Issue 1	Level I		3.00	0.004537	.0907	220429220.29
1655306023	Connection	CN19	Telcordia Issue 1	Level I		1.00	0.003024	.0202	330643830.44
1654808309	Connection	CN22,CN30	Telcordia Issue 1	Level I		2.00	0.001008	.0134	991931491.32
1654907004	Connection	CN23	Telcordia Issue 1	Level I		1.00	0.003528	.0235	283408997.52
1652602105	Connection	CN27	Telcordia Issue 1	Level I		1.00	0.001008	.0067	991931491.32
1655306020	Connection	CN28	Telcordia Issue 1	Level I		1.00	0.003024	.0202	330643830.44
1655302020	Connection	CN36	Telcordia Issue 1	Level I		1.00	0.001008	.0067	991931491.32
1655910131	Connection	CN37	Telcordia Issue 1	Level I		1.00	0.001008	.0067	991931491.32
1654415305	Connection	CN40	Telcordia Issue 1	Level I		1.00	0.007561	.0504	132257532.18
1655003023	Connection	CN17	Telcordia Issue 1	Level I		1.00	0.037805	.2521	26451506.44
1653003101	Connection	JP1,JP2,JP3,JP7, JP8,JP9	Telcordia Issue 1	Level I		6.00	0.001512	.0605	661287660.88
1653003201	Connection	JP4	Telcordia Issue 1	Level I		1.00	0.001008	.0067	991931491.32
1653002101	Connection	JP5,JP6	Telcordia Issue 1	Level I		2.00	0.001008	.0134	991931491.32
175910000B	Miscellaneous	SP1	Telcordia Issue 1	Level I		1.00	0.150000	1.0002	6666666.67
175011901C	Miscellaneous	BAT1	Telcordia Issue 1	Level I		1.00	0.900000	6.0011	1111111.11