

GES-3300F

Reliability Prediction Report

(MTBF)

Summary	Failure Rate: 18.403644 ppm MTBF: 54,337 Hours
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Issue date	Approval	Test Engineer
2010/09/28	Jansin Lee	Jessica Chou

Reliability Prediction (MTBF)

I . Model Name: TF-GES-3300F-A10-01

II . Prediction Date: Sep. 28, 2010

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

IV . Predicted by: Jessica Chou

V . Equipment: Relx 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:

TF-GES-3300F-A10-01 (Not include Adapter and Power supply):

- Failure Rate: 18.403644 ppm
- MTBF: 54,337 Hours

Below components value were provided by the suppliers:

- (TF)SPS.ATX DC 12V.130W.FSP.FSP130-5DD01.for GES-3300F
MTBF: 50,000 hours
- (TF)Adaptor.100/240V.12V/11.25A.135W.FSP.FSP135-AHAN1.for GES-3300F
MTBF: 100,000 hours

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 09. 28, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name GES-3300F.RPJ
Time 14:06
Failure Rate 18.403644
MTBF 54,337

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-GES-3300F-A10-01	System	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	18.40	54337.06
EMB-9458T	9697945806-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	18.40	54337.06

AAEON Reliability Prediction Report

Part Number 9697945806-D
Reference Des
Date 09. 28, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name GES-3300F.RPJ
Time 14:06
Failure Rate 18.403644
MTBF 54,337

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1129701690	Capacitor	BC1,BC2,BC3,BC4, BC5,C100,C104,C106, C107,C114,C115, C116,C12,C122,C124, C125,C126,C127, C128,C129,C130, C131,C132,C133, C135,C136,C137, C139,C141,C142, C143,C144,C145, C149,C153,C154, C158,C159,C161, C162,C164,C165,	Telcordia Issue 1	Level I		267.00	0.004535	6.5800	220487045.01
1655901000	Connection	CN15	Telcordia Issue 1	Level I		1.00	0.005690	.0309	175756054.14
165321320E	Connection	CN17	Telcordia Issue 1	Level I		1.00	0.014793	.0804	67598482.36
165320520C	Connection	CN20,CN21,CN22	Telcordia Issue 1	Level I		3.00	0.005690	.0927	175756054.14
1653205201	Connection	CN23,CN24,CN25	Telcordia Issue 1	Level I		3.00	0.005690	.0927	175756054.14
1174510180	Capacitor	CP10,CP5,CP6,CP7, CP8,CP9	Telcordia Issue 1	Level I		6.00	0.005466	.1782	182961702.19
1124533190	Capacitor	C11,C219,C243,C244, C246,C248,C249, C254,C257,C272, C277,C3,C308,C309, C310,C346,C46,C721, C728,C729	Telcordia Issue 1	Level I		20.00	0.004535	.4929	220487045.01
11E9501091	Capacitor	C110,C123,C138, C148,C16,C240,C252, C260,C264,C270, C271,C298,C299, C300,C315,C324, C329,C352,C354,C37, C38,C40,C41,C43, C45,C48,C490,C5, C571,C58,C605,C61, C612,C62,C629,C639, C640,C66,C661,C663, C683,C684,C69,C722	Telcordia Issue 1	Level I		44.00	0.004535	1.0843	220487045.01
1129710090	Capacitor	C10,C13,C15,C189, C190,C247,C250, C256,C261,C262, C263,C6	Telcordia Issue 1	Level I		12.00	0.004535	.2957	220487045.01
1124427090	Capacitor	C19,C245,C251,C253, C255,C276,C320, C321,C344,C356,C68, C8	Telcordia Issue 1	Level I		12.00	0.004535	.2957	220487045.01
1124405080	Capacitor	C14,C17,C18,C21, C268,C269	Telcordia Issue 1	Level I		6.00	0.004535	.1479	220487045.01

AAEON Reliability Prediction Report

Part Number 9697945806-D
Reference Des
Date 09. 28, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name GES-3300F.RPJ
Time 14:06
Failure Rate 18.403644
MTBF 54,337

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1129701790	Capacitor	C147,C22,C236,C238,C26,C27,C275,C28,C394,C446,C704,C718	Telcordia Issue 1	Level I		12.00	0.004535	.2957	220487045.01
1121501690	Capacitor	C177,C187,C207,C208,C209,C210,C211,C330,C333,C335,C337,C417,C437,C438,C439,C458,C472,C486,C49,C492,C503,C51,C512,C513,C516,C519,C527,C53,C532,C534,C55,C552,C553,C573,C582,C584,C585,C588,C594,C596,C597,C599,C600	Telcordia Issue 1	Level I		61.00	0.004535	1.5033	220487045.01
1129710390	Capacitor	C287,C297,C347,C353,C357,C358,C364,C382,C392,C405,C511,C706,C73	Telcordia Issue 1	Level I		13.00	0.004535	.3204	220487045.01
1124410190	Capacitor	C216,C218,C266,C274,C668,C669,C670,C671,C672,C673,C674,C675,C676,C677,C678,C679,C680,C681,C682,C71	Telcordia Issue 1	Level I		20.00	0.004535	.4929	220487045.01
1129722680	Capacitor	C223,C338,C452,C574,C576,C579,C581,C591,C621,C626,C632,C635,C638,C697,C76	Telcordia Issue 1	Level I		15.00	0.004535	.3697	220487045.01
11E1647650	Capacitor	C109,C198,C217,C224,C421,C700,C731,C78	Telcordia Issue 1	Level I		8.00	0.004535	.1972	220487045.01
11E9647680	Capacitor	C201,C233,C436,C449,C459,C484,C488,C611,C658,C80	Telcordia Issue 1	Level I		10.00	0.004535	.2464	220487045.01
1189647180	Capacitor	C118,C378	Telcordia Issue 1	Level I		2.00	0.004535	.0493	220487045.01
1124547290	Capacitor	C150,C151,C152,C156,C157,C160,C163,C167	Telcordia Issue 1	Level I		8.00	0.004535	.1972	220487045.01
1121701080	Capacitor	C222,C319,C630	Telcordia Issue 1	Level I		3.00	0.004535	.0739	220487045.01
1124515880	Capacitor	C227	Telcordia Issue 1	Level I		1.00	0.004535	.0246	220487045.01
1124556280	Capacitor	C228	Telcordia Issue 1	Level I		1.00	0.004535	.0246	220487045.01

AAEON Reliability Prediction Report

Part Number 9697945806-D
Reference Des
Date 09. 28, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

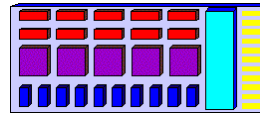


Description
File Name GES-3300F.RPJ
Time 14:06
Failure Rate 18.403644
MTBF 54,337

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1129522790	Capacitor	C230,C239,C241, C465,C478,C489, C523,C530,C572	Telcordia Issue 1	Level I		9.00	0.004535	.2218	220487045.01
1121733380	Capacitor	C231,C707	Telcordia Issue 1	Level I		2.00	0.004535	.0493	220487045.01
1124447180	Capacitor	C234	Telcordia Issue 1	Level I		1.00	0.004535	.0246	220487045.01
1189622190	Capacitor	C369,C376,C377, C434,C583,C620, C636,EC22,EC25, EC26	Telcordia Issue 1	Level I		10.00	0.004535	.2464	220487045.01
1121647480	Capacitor	C403,C404,C451, C453,C463,C487, C499,C520,C545, C567,C568,C578, C726	Telcordia Issue 1	Level I		13.00	0.004535	.3204	220487045.01
1124412080	Capacitor	C440,C441	Telcordia Issue 1	Level I		2.00	0.004535	.0493	220487045.01
1122522890	Capacitor	C454,C485,C491, C514,C518,C531, C535	Telcordia Issue 1	Level I		7.00	0.004535	.1725	220487045.01
1124433080	Capacitor	C517,C526	Telcordia Issue 1	Level I		2.00	0.004535	.0493	220487045.01
1121533480	Capacitor	C709,C724	Telcordia Issue 1	Level I		2.00	0.004535	.0493	220487045.01
1124539180	Capacitor	C710	Telcordia Issue 1	Level I		1.00	0.004535	.0246	220487045.01
1124518180	Capacitor	C717	Telcordia Issue 1	Level I		1.00	0.004535	.0246	220487045.01
11C2510190	Capacitor	C719,C720	Telcordia Issue 1	Level I		2.00	0.004535	.0493	220487045.01
1305100541	Semiconductor	D1,D15,D16,D2,D20, D21,D22,D23,D24, D25,D26,D27,D3,D38, D39,D4,D40,D41,D42, D43,D5,D6	Telcordia Issue 1	Level I		22.00	0.023881	2.8548	41874327.58
1301005440	Semiconductor	D12,D14,D19,D28, D36,D8,D9	Telcordia Issue 1	Level I		7.00	0.023881	.9083	41874327.58
1300581940	Semiconductor	D10,D29,D44,D45	Telcordia Issue 1	Level I		4.00	0.079603	1.7302	12562298.27
1301005442	Semiconductor	D11,D17,D18,D32, D33	Telcordia Issue 1	Level I		5.00	0.023881	.6488	41874327.58
1301581943	Semiconductor	D13	Telcordia Issue 1	Level I		1.00	0.023881	.1298	41874327.58
1305099140	Semiconductor	D30,D31	Telcordia Issue 1	Level I		2.00	0.079603	.8651	12562298.27
1301002240	Semiconductor	D37	Telcordia Issue 1	Level I		1.00	0.023881	.1298	41874327.58
1189615187	Capacitor	EC2,EC30,EC31,EC5	Telcordia Issue 1	Level I		4.00	0.004535	.0986	220487045.01
1189633184	Capacitor	C85,C87,EC27,EC28, EC32,EC33,EC34	Telcordia Issue 1	Level I		7.00	0.004535	.1725	220487045.01
1059700001	Resistor	FB1,FB2,FB3,FB4, L10,L13,L22,L54, L55,L56,L70,L75, L76,L77,R314,R409, R460,R481,R485, R491,R547,R548, R549,R667,R867, R868	Telcordia Issue 1	Level I		26.00	0.002268	.3204	440974090.03

AAEON Reliability Prediction Report

Part Number 9697945806-D
Reference Des
Date 09. 28, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name GES-3300F.RPJ
Time 14:06
Failure Rate 18.403644
MTBF 54,337

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1752001601	Miscellaneous	FS1,FS2	Telcordia Issue 1	Level I		2.00	0.003000	.0326	333333333.33
165322020L	Connection	IDE1	Telcordia Issue 1	Level I		1.00	0.022759	.1237	43939013.54
1304001340	Semiconductor	LED1	Telcordia Issue 1	Level I		1.00	0.004877	.0265	205063180.81
1304101340	Semiconductor	LED2,LED4	Telcordia Issue 1	Level I		2.00	0.004877	.0530	205063180.81
1212306033	Inductor	L1,L11,L15,L16,L18, L19,L2,L3,L30,L31, L32,L33,L34,L35, L36,L37,L38,L39, L40,L41,L42,L43, L44,L49,L5,L50,L51, L66,L67,L71,L72, L78,L79,L8,L80,L81	Telcordia Issue 1	Level I		36.00	0.002268	.4436	440974090.03
121230805X	Inductor	L4,L45,L57,L59,L60, L61,L63,L68,L69	Telcordia Issue 1	Level I		9.00	0.002268	.1109	440974090.03
121230603H	Inductor	L20,L53,L6,L7,L9	Telcordia Issue 1	Level I		5.00	0.002268	.0616	440974090.03
1211101005	Inductor	L14,L65	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
1211101569	Inductor	L17	Telcordia Issue 1	Level I	41.40	1.00	0.175677	.9546	5692280.43
1211101063	Inductor	L21,L29	Telcordia Issue 1	Level I		2.00	0.086173	.9365	11604581.32
1214309000	Inductor	L23,L24,L25,L26, L46,L47,L48,L52	Telcordia Issue 1	Level I		8.00	0.002268	.0986	440974090.03
1211106802	Inductor	L27	Telcordia Issue 1	Level I	33.60	1.00	0.155717	.8461	6421889.33
1211106802	Inductor	L28	Telcordia Issue 1	Level I		1.00	0.086173	.4682	11604581.32
1211100160	Inductor	L58,L74	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
121230805Z	Inductor	L73	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
1654262300	Connection	MPC11	Telcordia Issue 1	Level I		1.00	0.070552	.3834	14173875.33
1310390410	Semiconductor	Q1,Q2,Q33,Q40	Telcordia Issue 1	Level I		4.00	0.023881	.5190	41874327.58
1315700211	Semiconductor	Q17,Q18,Q20,Q21, Q23,Q24,Q25,Q31, Q32,Q34,Q36,Q41, Q42,Q47,Q48,Q49	Telcordia Issue 1	Level I		16.00	0.079603	6.9207	12562298.27
1315230111	Semiconductor	Q22,Q9	Telcordia Issue 1	Level I		2.00	0.000000	.0000	.00
1315441014	Semiconductor	Q19,Q26,Q27	Telcordia Issue 1	Level I		3.00	0.079603	1.2976	12562298.27
1315441014	Semiconductor	Q8	Telcordia Issue 1	Level I	34.30	1.00	0.192689	1.0470	5189713.21
1315441014	Semiconductor	Q7	Telcordia Issue 1	Level I	48.70	1.00	0.265093	1.4404	3772267.39
1311138610	Semiconductor	Q11,Q28	Telcordia Issue 1	Level I		2.00	0.023881	.2595	41874327.58
1315700310	Semiconductor	Q13	Telcordia Issue 1	Level I	42.60	1.00	0.232349	1.2625	4303876.33
1315700310	Semiconductor	Q30	Telcordia Issue 1	Level I		1.00	0.079603	.4325	12562298.27
1311390610	Semiconductor	Q35,Q37	Telcordia Issue 1	Level I		2.00	0.023881	.2595	41874327.58
1540710080	Resistor	RN1,RN10,RN2,RN3, RN4,RN5,RN6,RN7, RN8,RN9	Telcordia Issue 1	Level I		10.00	0.006246	.3394	160102772.00

AAEON Reliability Prediction Report

Part Number 9697945806-D
Reference Des
Date 09. 28, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name GES-3300F.RPJ
Time 14:06
Failure Rate 18.403644
MTBF 54,337

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A549969	Resistor	R37,R38,R39,R40, R41,R42,R43,R44, R553,R554,R555, R556,R557,R558, R559,R560,R561, R562,R609,R610, R652,R653,R654, R655,R656,R657, R659,R660,R661, R662,R73,R74,R75, R76,R77,R78,R79, R80	Telcordia Issue 1	Level I		38.00	0.002268	.4682	440974090.03
105A733009	Resistor	R138,R246,R321,R45, R501,R71,R799,R916, R920	Telcordia Issue 1	Level I		9.00	0.002268	.1109	440974090.03
105A705609	Resistor	R189,R190,R192, R195,R210,R211, R229,R232,R233, R237,R239,R241, R242,R245,R248, R249,R251,R253, R255,R256,R262, R265,R268,R271, R273,R274,R286,R46, R47,R48,R49,R650, R664,R672,R678, R686,R693,R712, R719,R728,R731,	Telcordia Issue 1	Level I		59.00	0.002268	.7270	440974090.03
105A700003	Resistor	R129,R377,R454, R472,R64,R72,R792, R818,R90,R91,R914, R934	Telcordia Issue 1	Level I		12.00	0.002268	.1479	440974090.03
105A702209	Resistor	R163,R164,R716,R84, R85	Telcordia Issue 1	Level I		5.00	0.002268	.0616	440974090.03
105A703329	Resistor	R105,R117,R424, R432,R435,R440, R451,R468,R488, R515,R88,R96	Telcordia Issue 1	Level I		12.00	0.002268	.1479	440974090.03
105A500133	Resistor	R767,R885,R98	Telcordia Issue 1	Level I		3.00	0.002268	.0370	440974090.03
105A511313	Resistor	R102	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A702263	Resistor	R103,R312,R333, R595	Telcordia Issue 1	Level I		4.00	0.002268	.0493	440974090.03
105A501623	Resistor	R111	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A747003	Resistor	R118,R457,R621, R645	Telcordia Issue 1	Level I		4.00	0.002268	.0493	440974090.03
105A501523	Resistor	R122	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03

AAEON Reliability Prediction Report

Part Number 9697945806-D
Reference Des
Date 09. 28, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name GES-3300F.RPJ
Time 14:06
Failure Rate 18.403644
MTBF 54,337

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A703309	Resistor	R141,R142,R144, R145,R146,R147, R148,R149,R150, R151,R152,R153, R154,R162,R167, R168,R175,R176, R177,R178,R179, R180,R182,R183, R184,R185,R186, R187,R188,R205, R434,R438,R450, R489,R493,R500, R509,R510,R511,	Telcordia Issue 1	Level I		40.00	0.002268	.4929	440974090.03
105A525503	Resistor	R157	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A703909	Resistor	R158,R261,R266, R267,R538,R637, R775,R778,R783, R789,R790	Telcordia Issue 1	Level I		11.00	0.002268	.1355	440974090.03
105A549913	Resistor	R160,R421,R442	Telcordia Issue 1	Level I		3.00	0.002268	.0370	440974090.03
105A512033	Resistor	R197	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A556223	Resistor	R198,R696	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
105A708229	Resistor	R203,R221,R222, R223,R224,R225, R231,R250,R252, R254,R257,R259, R277,R278,R279, R394,R403,R437, R444,R492,R532, R571,R611,R668, R670,R682,R713, R714,R718,R720, R721,R722,R725, R734,R740,R744, R747,R748,R750,	Telcordia Issue 1	Level I		57.00	0.002268	.7024	440974090.03
105A710009	Resistor	R213,R215,R216, R264,R270,R418, R452,R455,R477, R483,R484,R620, R690,R711,R798, R822,R823,R859, R863,R919	Telcordia Issue 1	Level I		20.00	0.002268	.2464	440974090.03
105A505109	Resistor	R235,R828,R829, R831,R832,R833	Telcordia Issue 1	Level I		6.00	0.002268	.0739	440974090.03
105A701053	Resistor	R244,R677	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03

AAEON Reliability Prediction Report

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Date 09. 28, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name GES-3300F.RPJ
Time 14:06
Failure Rate 18.403644
MTBF 54,337

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A510053	Resistor	R272,R619	Telcordia Issue 1	Level I		2.00	0.013606	.1479	73495681.67
105A524963	Resistor	R287,R486,R701, R708,R741,R806	Telcordia Issue 1	Level I		6.00	0.002268	.0739	440974090.03
105A701003	Resistor	R288,R289,R330, R504,R649,R836, R837,R838,R840, R845,R846,R847, R848,R849,R850, R851,R853,R854, R855,R856,R861, R912	Telcordia Issue 1	Level I		22.00	0.002268	.2711	440974090.03
105A549903	Resistor	R298	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A527463	Resistor	R309,R762	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
105A554963	Resistor	R310,R700,R710, R769	Telcordia Issue 1	Level I		4.00	0.002268	.0493	440974090.03
105A514733	Resistor	R315	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A503033	Resistor	R317,R684	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
105A535713	Resistor	R318	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A501039	Resistor	R320,R324,R567, R674,R697,R703, R704,R705,R706, R707,R791	Telcordia Issue 1	Level I		11.00	0.002268	.1355	440974090.03
105A514713	Resistor	R322	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A500233	Resistor	R325,R469,R766	Telcordia Issue 1	Level I		3.00	0.002268	.0370	440974090.03
105A505623	Resistor	R328,R407	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
105A536513	Resistor	R329,R910,R925	Telcordia Issue 1	Level I		3.00	0.002268	.0370	440974090.03
105A540213	Resistor	R332	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A502033	Resistor	R334,R441,R865	Telcordia Issue 1	Level I		3.00	0.002268	.0370	440974090.03
105A704733	Resistor	R341,R364	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
105A707509	Resistor	R352,R353,R354, R772	Telcordia Issue 1	Level I		4.00	0.002268	.0493	440974090.03
105A501223	Resistor	R372	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A516213	Resistor	R426	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A705123	Resistor	R427	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A700103	Resistor	R448,R449,R796, R870,R886,R889	Telcordia Issue 1	Level I		6.00	0.002268	.0739	440974090.03
105A532413	Resistor	R463	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A510213	Resistor	R464	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A503633	Resistor	R466,R866	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
105A701203	Resistor	R529,R530,R531	Telcordia Issue 1	Level I		3.00	0.002268	.0370	440974090.03
105A705139	Resistor	R586,R648,R669, R673,R852,R857, R917,R918	Telcordia Issue 1	Level I		8.00	0.002268	.0986	440974090.03

AAEON Reliability Prediction Report

Part Number 9697945806-D
Reference Des
Date 09. 28, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name GES-3300F.RPJ
Time 14:06
Failure Rate 18.403644
MTBF 54,337

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A580663	Resistor	R608,R622	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
105A520003	Resistor	R633	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A547503	Resistor	R641	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A523233	Resistor	R695	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A522103	Resistor	R699,R709	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
105A522663	Resistor	R743	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A733033	Resistor	R793	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A518213	Resistor	R895	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A561923	Resistor	R896	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A501133	Resistor	R899	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A526113	Resistor	R904	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A501123	Resistor	R922	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
14S1230400	Integrated Circuit	U1	Telcordia Issue 1	Level I		1.00	0.059366	.3226	16844654.92
14S4021301	Integrated Circuit	U2,U22,U39,U40,U42	Telcordia Issue 1	Level I		5.00	0.059366	1.6129	16844654.92
14S3065500	Integrated Circuit	U3	Telcordia Issue 1	Level I	33.60	1.00	0.540605	2.9375	1849779.34
1315970211	Semiconductor	U23,U37,U38,U4	Telcordia Issue 1	Level I		4.00	0.159207	3.4603	6281149.14
14S6341602	Integrated Circuit	U5	Telcordia Issue 1	Level I		1.00	0.042136	.2290	23732636.78
14S4825730	Integrated Circuit	U6	Telcordia Issue 1	Level I	35.50	1.00	0.168991	.9182	5917462.81
14S4825730	Integrated Circuit	U8	Telcordia Issue 1	Level I		1.00	0.026183	.1423	38193355.79
14S4653700	Integrated Circuit	U7	Telcordia Issue 1	Level I	33.60	1.00	0.540605	2.9375	1849779.34
14S1035801	Integrated Circuit	U9	Telcordia Issue 1	Level I		1.00	0.059366	.3226	16844654.92
1651203291	Connection	U10	Telcordia Issue 1	Level I		1.00	0.018207	.0989	54923766.92
14S3422600	Integrated Circuit	U12	Telcordia Issue 1	Level I	36.50	1.00	0.640686	3.4813	1560826.15
14S4871204	Integrated Circuit	U13	Telcordia Issue 1	Level I	31.90	1.00	0.142456	.7741	7019725.51
14S4081110	Integrated Circuit	U14,U34	Telcordia Issue 1	Level I		2.00	0.059366	.6452	16844654.92
1651611994	Connection	U16	Telcordia Issue 1	Level I		1.00	0.271968	1.4778	3676904.90
14S3128421	Integrated Circuit	U17	Telcordia Issue 1	Level I		1.00	0.059366	.3226	16844654.92
14S3626200	Integrated Circuit	U18	Telcordia Issue 1	Level I	31.10	1.00	0.137080	.7449	7295013.06
14S2200900	Integrated Circuit	U19	Telcordia Issue 1	Level I		1.00	0.059366	.3226	16844654.92
14S4650601	Integrated Circuit	U20	Telcordia Issue 1	Level I		1.00	0.059366	.3226	16844654.92
14S4730701	Integrated Circuit	U21	Telcordia Issue 1	Level I	33.20	1.00	0.527964	2.8688	1894068.90
14S2705700	Integrated Circuit	U25	Telcordia Issue 1	Level I		1.00	0.059366	.3226	16844654.92
14S6308001	Integrated Circuit	U26,U27	Telcordia Issue 1	Level I		2.00	0.035882	.3899	27868824.73
14S5A00700	Integrated Circuit	U29	Telcordia Issue 1	Level I		1.00	0.025245	.1372	39611408.47
14S5A12505	Integrated Circuit	U30,U49	Telcordia Issue 1	Level I		2.00	0.059366	.6452	16844654.92
14S5A00401	Integrated Circuit	U31,U33	Telcordia Issue 1	Level I		2.00	0.026183	.2845	38193355.79

AAEON Reliability Prediction Report

Part Number 9697945806-D
Reference Des
Date 09. 28, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name GES-3300F.RPJ
Time 14:06
Failure Rate 18.403644
MTBF 54,337

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S5812502	Integrated Circuit	U32	Telcordia Issue 1	Level I		1.00	0.026183	.1423	38193355.79
14S4048502	Integrated Circuit	U35,U36	Telcordia Issue 1	Level I		2.00	0.059366	.6452	16844654.92
14S4121601	Integrated Circuit	U41	Telcordia Issue 1	Level I		1.00	0.026183	.1423	38193355.79
14S4195710	Integrated Circuit	U47,U48	Telcordia Issue 1	Level I		2.00	0.059366	.6452	16844654.92
14S9080901	Integrated Circuit	U50	Telcordia Issue 1	Level I		1.00	0.059366	.3226	16844654.92
1231325058	Miscellaneous	Y1,Y4	Telcordia Issue 1	Level I		2.00	0.150000	1.6301	6666666.67
123131435B	Miscellaneous	Y2	Telcordia Issue 1	Level I		1.00	0.150000	.8151	6666666.67
1231332721	Miscellaneous	Y3	Telcordia Issue 1	Level I		1.00	0.150000	.8151	6666666.67
1300001440	Semiconductor	D34,D35,D46	Telcordia Issue 1	Level I		3.00	0.023881	.3893	41874327.58
14S428010D	Integrated Circuit	U15	Telcordia Issue 1	Level I	28.40	1.00	0.120223	.6533	8317885.61
14S4294502	Integrated Circuit	U11	Telcordia Issue 1	Level I	41.90	1.00	0.226918	1.2330	4406885.89
11E9510050	Capacitor	C146,C366,C386, C396,C397,C398, C442,C444,C455, C477,C508,C522, C549,C569,C570, C664,C83	Telcordia Issue 1	Level I		17.00	0.004535	.4189	220487045.01
11E9510051	Capacitor	C103,C111,C155, C194,C202,C220, C259,C265,C273, C280,C281,C282, C283,C284,C285, C286,C289,C30,C307, C311,C322,C339,C34, C342,C343,C350, C351,C360,C363, C373,C385,C387, C406,C416,C420, C428,C457,C493, C494,C521,C533,	Telcordia Issue 1	Level I		52.00	0.004535	1.2815	220487045.01
1315667910	Semiconductor	Q39	Telcordia Issue 1	Level I		1.00	0.159207	.8651	6281149.14
11C2522780	Capacitor	C225,C242	Telcordia Issue 1	Level I		2.00	0.004535	.0493	220487045.01
11E9622050	Capacitor	C179,C180,C181, C182,C184,C185, C192,C193,C195, C196,C199,C200, C204,C205,C564, C566,C586,C587, C633,C642,C660, C666	Telcordia Issue 1	Level I		22.00	0.004535	.5422	220487045.01
121110336L	Inductor	L12	Telcordia Issue 1	Level I		1.00	0.086173	.4682	11604581.32
1314613010	Integrated Circuit	Q12	Telcordia Issue 1	Level I		1.00	0.059366	.3226	16844654.92

