

GCS-2500

Reliability Prediction Report

(MTBF)

Summary	Failure Rate: 34.091134 ppm MTBF: 29,333 Hours
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Issue date	Approval	Test Engineer
2012/05/23	Vincent Chen	Jessica Chou

Reliability Prediction (MTBF)

I . Model Name: TF-GCS-2500-IF-A10

II . Prediction Date: May 23, 2012

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: 25.5 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-GCS-2500-IF-A10 (Not include power supply):

- Failure Rate: 34.091134ppm
- MTBF: 29,333 (hour)

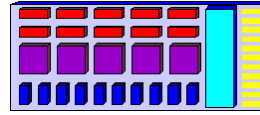
Below components value were provided by the suppliers:

(TF)SPS.85W.10/30V.DC/DC ATX 1U HEIGHT.Magic Power.MPD-810H

MTBF: 139,421 hours(MIL-HDBK-217F at 50°C)

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 05. 23, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.50



Description Top-level assembly
File Name GCS-2500.RPJ
Time 9:34
Failure Rate 34.091134
MTBF 29,333

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-GCS-2500-IF-A10	System	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	34.09	29333.14
ASS'Y PER-T167.Rev.B1.0	9697T16706-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	14.34	69719.28
ASS'Y PER-R25X.Rev.A0.2	9697R25X01-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	.43	2338795.10
ASS'Y IMBI-QM57-A1.2	9697QM571B-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	18.87	52983.66
ASS'Y PER-T232.Rev.A0.2	9697T23201-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	.45	2239216.80

AAEON Reliability Prediction Report

Part Number 9697T16706-D
Reference Des
Date 05. 23, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.50



Description
File Name GCS-2500.RPJ
Time 9:34
Failure Rate 14.343234
MTBF 69,719

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A704723	Resistor	R1001,R1010,R1017, R1024,R1031,R1038, R1045,R1052,R110, R135,R172,R189, R226,R243,R272,R81	Telcordia Issue 1	Level I		16.00	0.002290	.2555	436681847.68
105A708223	Resistor	R112,R114,R138, R139,R173,R174, R195,R196,R227, R228,R244,R247, R275,R276,R82,R85	Telcordia Issue 1	Level I		16.00	0.002290	.2555	436681847.68
105A704729	Resistor	R1000,R1008,R1015, R1022,R1029,R1036, R1043,R1050,R111, R115,R136,R140, R158,R160,R190, R192,R212,R214, R245,R248,R273, R277,R83,R86	Telcordia Issue 1	Level I		24.00	0.002290	.3832	436681847.68
105A530003	Resistor	R397,R398,R399, R400,R401,R402, R403,R404,R405, R406,R407,R408, R409,R410,R411, R412,R413,R414, R415,R416,R417, R418,R419,R420, R421,R422,R423, R424,R425,R426, R427,R428,R429, R430,R431,R432, R433,R434,R435,	Telcordia Issue 1	Level I		48.00	0.002290	.7664	436681847.68
11E1510050	Capacitor	TC1,TC10,TC11,TC12, TC13,TC14,TC15, TC16,TC17,TC18, TC19,TC2,TC20,TC21, TC22,TC23,TC24, TC25,TC26,TC27, TC28,TC29,TC3,TC30, TC31,TC32,TC33, TC34,TC35,TC36,TC4, TC5,TC6,TC7,TC8, TC9	Telcordia Issue 1	Level I		36.00	0.004580	1.1495	218340923.84
14S4811100	Integrated Circuit	U1,U3	Telcordia Issue 1	Level I		2.00	0.026962	.3760	37088905.56
14S6334610	Integrated Circuit	U2,U4	Telcordia Issue 1	Level I		2.00	0.023796	.3318	42023441.43

AAEON Reliability Prediction Report

Part Number 9697T16706-D
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Date 05. 23, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.50

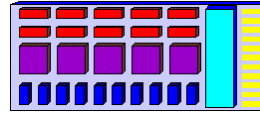


Description
File Name GCS-2500.RPJ
Time 9:34
Failure Rate 14.343234
MTBF 69,719

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S7140100	Integrated Circuit	U17,U25,U33,U41, U49,U57,U65,U9	Telcordia Issue 1	Level I		8.00	0.061574	3.4343	16240641.01
14S4021301	Integrated Circuit	U10,U18,U26,U35, U42,U51,U58,U66	Telcordia Issue 1	Level I		8.00	0.061574	3.4343	16240641.01
14S7340000	Integrated Circuit	U11,U19,U27,U34, U43,U50,U59,U67	Telcordia Issue 1	Level I		8.00	0.061574	3.4343	16240641.01
14S4848500	Integrated Circuit	U12,U15,U21,U23, U28,U31,U36,U39, U45,U47,U52,U55, U60,U63,U68,U71	Telcordia Issue 1	Level I		16.00	0.061574	6.8686	16240641.01
14S5A12506	Integrated Circuit	U13,U20,U29,U37, U44,U53,U61,U69	Telcordia Issue 1	Level I		8.00	0.026962	1.5038	37088905.56
14S5A01400	Integrated Circuit	U14,U22,U30,U38, U46,U54,U62,U70	Telcordia Issue 1	Level I		8.00	0.061574	3.4343	16240641.01
14S5812502	Integrated Circuit	U16,U24,U32,U40, U48,U56,U64,U72	Telcordia Issue 1	Level I		8.00	0.026962	1.5038	37088905.56
14S9105800	Integrated Circuit	U100	Telcordia Issue 1	Level I		1.00	0.026962	.1880	37088905.56
105A564913	Resistor	R1003,R1005,R1011, R1013,R1018,R1020, R1025,R1027,R1032, R1034,R1039,R1041, R1046,R1048,R1053, R1055	Telcordia Issue 1	Level I		16.00	0.002290	.2555	436681847.68
105A501039	Resistor	R1004,R1012,R1019, R1026,R1033,R1040, R1047,R1054,R118, R144,R166,R197, R217,R252,R280,R90	Telcordia Issue 1	Level I		16.00	0.002290	.2555	436681847.68
1129601080	Capacitor	BC29,BC30,BC54, BC55	Telcordia Issue 1	Level I		4.00	0.004580	.1277	218340923.84
14S6334615	Integrated Circuit	U101	Telcordia Issue 1	Level I		1.00	0.023796	.1659	42023441.43
14S6334607	Integrated Circuit		Telcordia Issue 1	Level I		1.00	0.023796	.1659	42023441.43
1600012403	Connection	SW1,SW2	Telcordia Issue 1	Level I		2.00	0.001168	.0163	856155154.00
123132505D	Miscellaneous	Y1,Y2	Telcordia Issue 1	Level I		2.00	0.150000	2.0916	6666666.67
1302012041	Semiconductor	D1,D2,D3,D4,D5,D6, D7,D8	Telcordia Issue 1	Level I		8.00	0.027480	1.5327	36390153.97
121230603L	Inductor	L10,L11,L12,L13, L14,L7,L8,L9	Telcordia Issue 1	Level I		8.00	0.002290	.1277	436681847.68
1315035210	Semiconductor	Q37,Q41,Q45,Q49, Q53,Q57,Q61,Q65	Telcordia Issue 1	Level I		8.00	0.000000	.0000	.00
1654418103	Connection	CN1,CN2,CN3,CN4	Telcordia Issue 1	Level I		4.00	0.010512	.2932	95128350.44
1653240200	Connection	CN10	Telcordia Issue 1	Level I		1.00	0.001168	.0081	856155154.00
1652528201	Connection	CN16	Telcordia Issue 1	Level I		1.00	0.001168	.0081	856155154.00
1251002500	Integrated Circuit	U76,U77,U78,U79	Telcordia Issue 1	Level I		4.00	0.061574	1.7172	16240641.01

AAEON Reliability Prediction Report

Part Number 9697QM571B-D
Reference Des
Date 05. 23, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.50

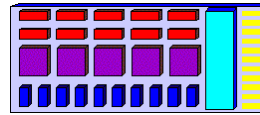


Description
File Name GCS-2500.RPJ
Time 9:34
Failure Rate 18.873744
MTBF 52,984

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1124427090	Capacitor	C107,C256,C257, C260,C261,C270, C277,C280,C281	Telcordia Issue 1	Level I		9.00	0.004580	.2184	218340923.84
11E9522680	Capacitor	C122,C132,C133, C138,C139,C140, C143	Telcordia Issue 1	Level I		7.00	0.004580	.1699	218340923.84
1124547190	Capacitor	C149	Telcordia Issue 1	Level I		1.00	0.004580	.0243	218340923.84
1124533180	Capacitor	C245,C246	Telcordia Issue 1	Level I		2.00	0.004580	.0485	218340923.84
11C4533880	Capacitor	C250	Telcordia Issue 1	Level I		1.00	0.004580	.0243	218340923.84
1121610180	Capacitor	C285,C286,C287, C288,C289,C290	Telcordia Issue 1	Level I		6.00	0.004580	.1456	218340923.84
1124510280	Capacitor	C291,C292,C293	Telcordia Issue 1	Level I		3.00	0.004580	.0728	218340923.84
1121647480	Capacitor	C295,C296	Telcordia Issue 1	Level I		2.00	0.004580	.0485	218340923.84
165320520C	Connection	DIO1,USB3,USB4	Telcordia Issue 1	Level I		3.00	0.005840	.0928	171231030.80
1301005440	Semiconductor	D1,D10,D14,D27,D28, D29,D5,D9	Telcordia Issue 1	Level I		8.00	0.024226	1.0269	41277895.16
1301005442	Semiconductor	D13,D2	Telcordia Issue 1	Level I		2.00	0.024226	.2567	41277895.16
1301002240	Semiconductor	D15,D16,D17,D18,D6	Telcordia Issue 1	Level I		5.00	0.024226	.6418	41277895.16
1305100541	Semiconductor	D20,D21,D22,D23, D30,D31,D32,D33, D34,D35,D36,D37, D38,D39,D40,D41, D42,D43,D44,D45	Telcordia Issue 1	Level I		20.00	0.024226	2.5672	41277895.16
1212306030	Resistor	FB1,FB2,FB20,FB3, FB33,FB34,FB35, FB36,FB37,FB38,FB4, FB5,FB6	Telcordia Issue 1	Level I		13.00	0.011680	.8045	85615515.40
12123C0005	Resistor	FB10,FB11,FB12,FB7, FB8,FB9	Telcordia Issue 1	Level I		6.00	0.011680	.3713	85615515.40
121230603Z	Inductor	FB14,FB15,FB16, FB17,FB18,FB19	Telcordia Issue 1	Level I		6.00	0.002290	.0728	436681847.68
12123C0007	Inductor	FB29	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
1212308054	Resistor	FB32	Telcordia Issue 1	Level I		1.00	0.011680	.0619	85615515.40
1752001601	Miscellaneous	FS1,FS2,FS3,FS4, FS6,FS7,FS8,FS9	Telcordia Issue 1	Level I		8.00	0.003000	.1272	333333333.33
1752011000	Miscellaneous	FS10,FS11	Telcordia Issue 1	Level I		2.00	0.003000	.0318	333333333.33
1211105673	Inductor	L17,L5	Telcordia Issue 1	Level I		2.00	0.087020	.9221	11491627.57
1211101064	Inductor	L6	Telcordia Issue 1	Level I	37.10	1.00	0.165768	.8783	6032522.29
1211103671	Inductor	L10,L14,L15	Telcordia Issue 1	Level I		3.00	0.087020	1.3832	11491627.57
1211103671	Inductor	L16	Telcordia Issue 1	Level I	38.90	1.00	0.170418	.9029	5867935.05
1211101002	Inductor	L12,L13	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
1211100160	Inductor	L19	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68

AAEON Reliability Prediction Report

Part Number 9697QM571B-D
Reference Des
Date 05. 23, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.50



Description
File Name GCS-2500.RPJ
Time 9:34
Failure Rate 18.873744
MTBF 52,984

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A701039	Resistor	R105,R106,R107, R119,R128,R140, R162,R163,R164, R165,R166,R168, R172,R173,R174, R193,R198,R199, R269,R270,R319,R32, R359,R361,R365, R382,R4,R424,R425, R43,R437,R504,R523, R524,R535,R536, R542,R546,R549,R58, R59,R590,R591,R	Telcordia Issue 1	Level I		84.00	0.002290	1.0192	436681847.68
105A733003	Resistor	R11,R12,R5,R560,R6, R884	Telcordia Issue 1	Level I		6.00	0.002290	.0728	436681847.68
105A510009	Resistor	R158,R160,R170, R171,R22,R322,R323, R400,R44,R8	Telcordia Issue 1	Level I		10.00	0.002290	.1213	436681847.68
105A703329	Resistor	R14,R857	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A501539	Resistor	R15,R380	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
1050506224	Resistor	R16,R381	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A705129	Resistor	R17,R20,R398,R406	Telcordia Issue 1	Level I		4.00	0.002290	.0485	436681847.68
105A702229	Resistor	R131,R177,R18,R181, R197,R24,R280,R289, R290,R291,R388, R391,R392,R450, R451,R463,R464, R483,R650,R652, R654,R806,R885, R886,R905,R906, R967,R968	Telcordia Issue 1	Level I		28.00	0.002290	.3397	436681847.68
105A500133	Resistor	R19,R963	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A700009	Resistor	BC236,BC237,R1000, R1001,R1002,R1003, R1004,R1005,R101, R103,R129,R146, R184,R185,R187, R189,R191,R200, R201,R202,R203, R206,R208,R210, R211,R213,R214, R215,R216,R219, R222,R225,R229, R230,R231,R232, R236,R238,R239,	Telcordia Issue 1	Level I		193.00	0.002290	2.3417	436681847.68

AAEON Reliability Prediction Report

Part Number 9697QM571B-D
Reference Des
Date 05. 23, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.50



Description
File Name GCS-2500.RPJ
Time 9:34
Failure Rate 18.873744
MTBF 52,984

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A700003	Resistor	FB13,FB30,FB31, FB41,FB42,FB49, FB50,R123,R147, R299,R325,R326, R353,R354,R367, R461,R522,R587, R676,R862,R870, R929,R939,R981	Telcordia Issue 1	Level I		24.00	0.002290	.2912	436681847.68
1050505604	Resistor	R143	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A500139	Resistor	R149,R150,R218, R234,R242,R262, R266,R267,R277, R486,R487,R509, R511,R593,R784, R961	Telcordia Issue 1	Level I		16.00	0.002290	.1941	436681847.68
1050520004	Resistor	R151,R194,R195, R196,R233,R249, R265	Telcordia Issue 1	Level I		7.00	0.002290	.0849	436681847.68
105A700133	Resistor	R152,R364,R376, R403,R439,R440, R441,R442	Telcordia Issue 1	Level I		8.00	0.002290	.0971	436681847.68
105A702033	Resistor	R155,R156,R179	Telcordia Issue 1	Level I		3.00	0.002290	.0364	436681847.68
1050524904	Resistor	R161	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
1050701504	Resistor	R175	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A513003	Resistor	R176	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A532463	Resistor	R178	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A708229	Resistor	R180,R363,R368, R605,R858,R864, R969	Telcordia Issue 1	Level I		7.00	0.002290	.0849	436681847.68
105A549969	Resistor	R207,R268,R681, R705,R742	Telcordia Issue 1	Level I		5.00	0.002290	.0607	436681847.68
105A533033	Resistor	R209	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A710053	Resistor	R212	Telcordia Issue 1	Level I		1.00	0.013740	.0728	72780307.95
1059704761	Resistor	R220	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
1059702261	Resistor	R221,R303,R331, R833	Telcordia Issue 1	Level I		4.00	0.002290	.0485	436681847.68
105A556203	Resistor	R228,R327	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A702263	Resistor	R240,R942,R943, R944	Telcordia Issue 1	Level I		4.00	0.002290	.0485	436681847.68
105A522663	Resistor	R241	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A541233	Resistor	R245,R831	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
1050519114	Resistor	R252,R256	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A580613	Resistor	R253,R314	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A502003	Resistor	R254,R261	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A705103	Resistor	R271,R273	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
1050502224	Resistor	R279	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68

AAEON Reliability Prediction Report

Part Number 9697QM571B-D
Reference Des
Date 05. 23, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.50



Description
File Name GCS-2500.RPJ
Time 9:34
Failure Rate 18.873744
MTBF 52,984

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A526113	Resistor	R286,R845	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A505109	Resistor	R292	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A704709	Resistor	R294	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A515009	Resistor	R295,R296,R297, R412,R413,R414	Telcordia Issue 1	Level I		6.00	0.002290	.0728	436681847.68
105A502033	Resistor	R304,R868,R875	Telcordia Issue 1	Level I		3.00	0.002290	.0364	436681847.68
105A705133	Resistor	R1024,R1025,R315, R324	Telcordia Issue 1	Level I		4.00	0.002290	.0485	436681847.68
105A524913	Resistor	R328	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A582563	Resistor	R329,R702	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A747003	Resistor	R335,R348	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A501039	Resistor	R343,R350	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A540213	Resistor	R352	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A533213	Resistor	R362,R477	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A707509	Resistor	R407,R415,R416	Telcordia Issue 1	Level I		3.00	0.002290	.0364	436681847.68
105A549913	Resistor	R408,R899,R932	Telcordia Issue 1	Level I		3.00	0.002290	.0364	436681847.68
105A715009	Resistor	R419,R420,R427, R430,R431,R433, R434,R903	Telcordia Issue 1	Level I		8.00	0.002290	.0971	436681847.68
105A733009	Resistor	R436	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A707503	Resistor	R443,R444	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
1050502204	Resistor	R445,R446,R447, R448	Telcordia Issue 1	Level I		4.00	0.002290	.0485	436681847.68
105A706823	Resistor	R459,R460	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A501333	Resistor	R476,R496	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A701033	Resistor	R493,R494	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A512103	Resistor	R481	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A520003	Resistor	R482	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A703303	Resistor	R485,R507	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A500233	Resistor	R499,R518	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A747033	Resistor	R519	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A708209	Resistor	R527,R545,R550	Telcordia Issue 1	Level I		3.00	0.002290	.0364	436681847.68
105A503033	Resistor	R532	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A506823	Resistor	R533,R534	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A747009	Resistor	R1020,R1021,R558, R987,R989,R990, R991	Telcordia Issue 1	Level I		7.00	0.002290	.0849	436681847.68
105A705623	Resistor	R561	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
1050564924	Resistor	R582,R584	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A501233	Resistor	R586	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105270000A	Resistor	R601,R622	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68

AAEON Reliability Prediction Report

Part Number 9697QM571B-D
Reference Des
Date 05. 23, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.50

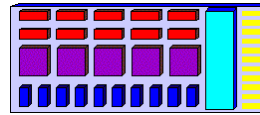


Description
File Name GCS-2500.RPJ
Time 9:34
Failure Rate 18.873744
MTBF 52,984

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A705603	Resistor	R608	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A554963	Resistor	R623	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A530113	Resistor	R636,R866,R867	Telcordia Issue 1	Level I		3.00	0.002290	.0364	436681847.68
105A501123	Resistor	R638	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A501523	Resistor	R687,R697	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A501133	Resistor	R600,R696,R844	Telcordia Issue 1	Level I		3.00	0.002290	.0364	436681847.68
105A502133	Resistor	R700	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A536513	Resistor	R701,R837,R846, R856	Telcordia Issue 1	Level I		4.00	0.002290	.0485	436681847.68
105A575003	Resistor	R709,R737	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A537463	Resistor	R712	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A706803	Resistor	R736	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A504733	Resistor	R741	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A590963	Resistor	R745	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A523713	Resistor	R761	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A700103	Resistor	R826,R827,R835	Telcordia Issue 1	Level I		3.00	0.002290	.0364	436681847.68
105A505133	Resistor	R834,R843,R848	Telcordia Issue 1	Level I		3.00	0.002290	.0364	436681847.68
1050525524	Resistor	R849	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A551003	Resistor	R853	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
1050582514	Resistor	R855	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A505123	Resistor	R877	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A503423	Resistor	R894,R898	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A702233	Resistor	R921,R922	Telcordia Issue 1	Level I		2.00	0.002290	.0243	436681847.68
105A501413	Resistor	R959	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
105A730009	Resistor	R1018,R1019,R1022, R1023,R983,R984, R985,R986	Telcordia Issue 1	Level I		8.00	0.002290	.0971	436681847.68
1129610051	Capacitor	TC1,TC11,TC114, TC118,TC12,TC120, TC124,TC125,TC135, TC136,TC137,TC138, TC14,TC142,TC143, TC147,TC148,TC149, TC15,TC150,TC151, TC153,TC154,TC156, TC157,TC158,TC159, TC16,TC161,TC162, TC163,TC164,TC165, TC166,TC167,TC2, TC21,TC24,TC25,	Telcordia Issue 1	Level I		66.00	0.004580	1.6016	218340923.84

AAEON Reliability Prediction Report

Part Number 9697QM571B-D
Reference Des
Date 05. 23, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.50



Description
File Name GCS-2500.RPJ
Time 9:34
Failure Rate 18.873744
MTBF 52,984

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1189633160	Capacitor	TC115,TC116,TC123, TC127,TC128,TC129, TC13,TC130,TC131, TC132,TC133,TC17, TC19,TC22,TC23, TC40,TC49,TC60, TC62,TC71,TC72, TC77,TC88,TC93	Telcordia Issue 1	Level I		24.00	0.004580	.5824	218340923.84
1129610080	Capacitor	TC100,TC101,TC102, TC103,TC104,TC105, TC106,TC107,TC108, TC109,TC110,TC111, TC117,TC126,TC37, TC38,TC39,TC41, TC42,TC43,TC46, TC47,TC48,TC54, TC55,TC56,TC75, TC78,TC79,TC80, TC81,TC83,TC84, TC86,TC87,TC89, TC90,TC91,TC92	Telcordia Issue 1	Level I		44.00	0.004580	1.0677	218340923.84
11C2510190	Capacitor	TC112,TC113,TC134, TC139,TC145,TC146, TC58,TC63,TC64, TC76	Telcordia Issue 1	Level I		10.00	0.004580	.2427	218340923.84
1189622150	Capacitor	TC121,TC122	Telcordia Issue 1	Level I		2.00	0.004580	.0485	218340923.84
1142522080	Capacitor	TC140,TC141,TC144	Telcordia Issue 1	Level I		3.00	0.004580	.0728	218340923.84
1149610180	Capacitor	TC152,TC155	Telcordia Issue 1	Level I		2.00	0.004580	.0485	218340923.84
1189610151	Capacitor	TC168,TC169,TC170, TC171	Telcordia Issue 1	Level I		4.00	0.004580	.0971	218340923.84
14S4BD8200	Integrated Circuit	U2	Telcordia Issue 1	Level I	62.00	1.00	0.545786	2.8918	1832221.41
14S4878100	Integrated Circuit	U5	Telcordia Issue 1	Level I	44.60	1.00	0.261866	1.3875	3818746.21
14S5A00401	Integrated Circuit	U7	Telcordia Issue 1	Level I		1.00	0.026962	.1429	37088905.56
14S2048800	Integrated Circuit	U9	Telcordia Issue 1	Level I		1.00	0.033190	.1759	30129558.53
14S5A00821	Integrated Circuit	U10,U13,U36,U37, U38,U40,U41,U42, U43,U44,U53	Telcordia Issue 1	Level I		11.00	0.026962	1.5714	37088905.56
14S4288100	Integrated Circuit	U11	Telcordia Issue 1	Level I		1.00	0.061574	.3262	16240641.01
1314108412	Integrated Circuit	U12	Telcordia Issue 1	Level I	37.40	1.00	0.694705	3.6808	1439459.68
1314108412	Integrated Circuit	U32	Telcordia Issue 1	Level I		1.00	0.061574	.3262	16240641.01
14S4288300	Integrated Circuit	U14	Telcordia Issue 1	Level I		1.00	0.061574	.3262	16240641.01
14S2041200	Integrated Circuit	U15	Telcordia Issue 1	Level I		1.00	0.061574	.3262	16240641.01
14S4825740	Integrated Circuit	U19	Telcordia Issue 1	Level I		1.00	0.026962	.1429	37088905.56

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Description
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Time 9:34
Failure Rate 18.873744
MTBF 52,984

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S4257701	Integrated Circuit	U20	Telcordia Issue 1	Level I		1.00	0.026962	.1429	37088905.56
14S2200900	Integrated Circuit	U22	Telcordia Issue 1	Level I		1.00	0.061574	.3262	16240641.01
14S3052400	Integrated Circuit	U23,U24,U26,U30	Telcordia Issue 1	Level I		4.00	0.061574	1.3050	16240641.01
14S9144200	Integrated Circuit	U25,U27	Telcordia Issue 1	Level I		2.00	0.026962	.2857	37088905.56
14S5A23200	Integrated Circuit	U29	Telcordia Issue 1	Level I		1.00	0.026962	.1429	37088905.56
14S4195710	Integrated Circuit	U34,U55	Telcordia Issue 1	Level I		2.00	0.061574	.6525	16240641.01
14S5812300	Integrated Circuit	U35	Telcordia Issue 1	Level I		1.00	0.026962	.1429	37088905.56
14S2047500	Integrated Circuit	U47	Telcordia Issue 1	Level I		1.00	0.061574	.3262	16240641.01
14S9661200	Integrated Circuit	U49	Telcordia Issue 1	Level I		1.00	0.061574	.3262	16240641.01
14S5A00702	Integrated Circuit	U56,U60,U61	Telcordia Issue 1	Level I		3.00	0.061574	.9787	16240641.01
123131435F	Miscellaneous	Y1	Telcordia Issue 1	Level I		1.00	0.150000	.7948	6666666.67
1231332722	Miscellaneous	Y2	Telcordia Issue 1	Level I		1.00	0.150000	.7948	6666666.67
1231325058	Miscellaneous	Y3,Y4,Y5	Telcordia Issue 1	Level I		3.00	0.150000	2.3843	6666666.67
1124568280	Capacitor	C189	Telcordia Issue 1	Level I		1.00	0.004580	.0243	218340923.84
11C2568880	Capacitor	C188	Telcordia Issue 1	Level I		1.00	0.004580	.0243	218340923.84
105A510523	Resistor	R237	Telcordia Issue 1	Level I		1.00	0.002290	.0121	436681847.68
1315700211	Semiconductor	Q15	Telcordia Issue 1	Level I		1.00	0.080753	.4279	12383368.55
14S6308002	Integrated Circuit	U16	Telcordia Issue 1	Level I		1.00	0.037217	.1972	26869507.28
1301053040	Semiconductor	D11,D12	Telcordia Issue 1	Level I		2.00	0.024226	.2567	41277895.16
1651609882	Connection	U1	Telcordia Issue 1	Level I		1.00	0.001168	.0062	856155154.00
14S3950500	Integrated Circuit	U6	Telcordia Issue 1	Level I	38.60	1.00	0.744219	3.9431	1343690.17
16515A2993	Connection	DIMM2	Telcordia Issue 1	Level I		1.00	0.001168	.0062	856155154.00
16515A2995	Connection	DIMM1	Telcordia Issue 1	Level I		1.00	0.001168	.0062	856155154.00
14S5A00703	Integrated Circuit	U57	Telcordia Issue 1	Level I		1.00	0.026962	.1429	37088905.56
1653204203	Connection	CN10	Telcordia Issue 1	Level I		1.00	0.004672	.0248	214038788.50
1653207205	Connection	CN8	Telcordia Issue 1	Level I		1.00	0.008176	.0433	122307879.14
14S6206402	Integrated Circuit		Telcordia Issue 1	Level I		1.00	0.026962	.1429	37088905.56
1655404020	Connection	ATX1	Telcordia Issue 1	Level I		1.00	0.002336	.0124	428077577.00
1655424020	Connection	ATX2	Telcordia Issue 1	Level I		1.00	0.014016	.0743	71346262.83
1750220323	Connection	BAT1	Telcordia Issue 1	Level I		1.00	0.001168	.0062	856155154.00
175910000B	Miscellaneous	BZ1	Telcordia Issue 1	Level I		1.00	0.150000	.7948	6666666.67
1653003100	Connection	CMOS1,JP7	Telcordia Issue 1	Level I		2.00	0.001168	.0124	856155154.00
1654439501	Connection	CN1	Telcordia Issue 1	Level I		1.00	0.022776	.1207	43905392.51
1654434300	Connection	CN7	Telcordia Issue 1	Level I		1.00	0.001168	.0062	856155154.00
1169656132	Capacitor	EC1,EC2	Telcordia Issue 1	Level I		2.00	0.005483	.0581	182366143.54
1119647191	Capacitor	EC4,EC8	Telcordia Issue 1	Level I		2.00	0.073001	.7736	13698482.46

AAEON Reliability Prediction Report

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Environment GF, GU - Ground Fixed, Uncontrolled
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Description
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Time 9:34
Failure Rate 18.873744
MTBF 52,984

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1112633191	Capacitor	EC11,EC9	Telcordia Issue 1	Level I		2.00	0.043800	.4641	22830804.11
1169682192	Capacitor	EC10	Telcordia Issue 1	Level I		1.00	0.005483	.0291	182366143.54
1653003101	Connection	JP1,JP3	Telcordia Issue 1	Level I		2.00	0.001752	.0186	570770102.67
1653003201	Connection	JP5	Telcordia Issue 1	Level I		1.00	0.001168	.0062	856155154.00
1654612307	Connection	KM1	Telcordia Issue 1	Level I		1.00	0.001168	.0062	856155154.00
1654232200	Connection	PCIE1	Telcordia Issue 1	Level I		1.00	0.037376	.1980	26754848.56
1654260207	Connection	PCI1	Telcordia Issue 1	Level I		1.00	0.070081	.3713	14269252.57
1655004011	Connection	PWR1	Telcordia Issue 1	Level I		1.00	0.023360	.1238	42807757.70
1654907002	Connection	SATA1,SATA2,SATA3	Telcordia Issue 1	Level I		3.00	0.004088	.0650	244615758.29
1652522207	Connection	USB_LAN1,USB_LAN2	Telcordia Issue 1	Level I		2.00	0.023360	.2475	42807757.70
175011901H	Miscellaneous	BAT1	Telcordia Issue 1	Level I		1.00	0.900000	4.7685	1111111.11
1211101161	Inductor	L9	Telcordia Issue 1	Level I		1.00	0.087020	.4611	11491627.57

