

AIS-Q452

Reliability Prediction Report

(MTBF)

Report NO. : 10I070002

01-13-2010

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** TF-AIS-Q452-A10

II . **Prediction Date:** Jan. 13, 2010

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: 24.8 degrees C
- Standard: Telcordia (Bellcore) Standard

VII. Term and Definition:

- Unit : An assembly of device.
- Duty Cycle : 100%
- 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-AIS-Q452-A10 (Not include FAN and power supply):
Failure Rate: 18.052441 ppm
MTBF: 55,394 Hours
- Below components MTBF value were provided by the suppliers:
 - (TF)Fan.12V.60*60*20mm.Cable L=200mm.SUNON.KDE1206PKV1-MS.
AF.GN.For AIS-Q452
MTTF: 329,447 hours and temperature at 30°C



Industrial Computing Platform Partner

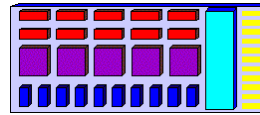
www.aaeon.com.tw

- (TF) SPS.275W.90-264V.Flex ATX.Active PFC.CWT.G99-PSM275H-N222

MTBF: 100,000 hours

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 01. 13, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80



Description Top-level assembly
File Name TF-AIS-Q452-A10.RPJ
Time 3:19 下午
Failure Rate 18.052441
MTBF 55,394

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-AIS-Q452-A10	System	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	18.05	55394.17
ASS'Y PER-06X-A10	9697R06X01-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	.91	1094974.96
ASS'Y IMBI-Q45-A11	9697IQ4504-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	17.14	58345.85

AAEON Reliability Prediction Report

Part Number 9697R06X01-D
Reference Des
Date 01. 13, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80



Description
File Name TF-AIS-Q452-A10.RPJ
Time 3:19 下午
Failure Rate 0.913263
MTBF 1,094,975

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1124701680	Capacitor	BC1,BC2,BC3,BC4, BC5,BC6,BC7,BC8, BC9	Telcordia Issue 1	Level I		9.00	0.004518	4.4521	221353427.43
1121501690	Capacitor	BC10,BC11,BC12, BC13,BC14,BC15, BC16,BC17,BC18, BC19,BC20,BC21, BC22,BC23,BC24, BC25,BC26,BC27, BC28,BC29,BC30, BC31,BC32,BC33, BC34,BC35,BC36, BC37,BC38,BC39, BC40,BC41	Telcordia Issue 1	Level I		32.00	0.004518	15.8295	221353427.43
1129610051	Capacitor	C1,C12,C2,C3,C8	Telcordia Issue 1	Level I		5.00	0.004518	2.4734	221353427.43
1122722080	Capacitor	C9	Telcordia Issue 1	Level I		1.00	0.005458	.5977	183201032.40
1124701780	Capacitor	C10,C11	Telcordia Issue 1	Level I		2.00	0.004518	.9893	221353427.43
105A702223	Resistor	R3,R5	Telcordia Issue 1	Level I		2.00	0.002259	.4947	442706854.87
105A700003	Resistor	R11,R12,R15,R25, R26,R29,R8	Telcordia Issue 1	Level I		7.00	0.002259	1.7314	442706854.87
105A704723	Resistor	R10,R9	Telcordia Issue 1	Level I		2.00	0.002259	.4947	442706854.87
105A510003	Resistor	R13	Telcordia Issue 1	Level I		1.00	0.002259	.2473	442706854.87
105A700009	Resistor	R16,R17	Telcordia Issue 1	Level I		2.00	0.002259	.4947	442706854.87
1654282204	Connection	CN1,PICMGA1	Telcordia Issue 1	Level I		2.00	0.092340	20.2221	10829495.94
1655008120	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.112610	12.3305	8880186.67
1111610192	Capacitor	EC1,EC2,EC4,EC5	Telcordia Issue 1	Level I		4.00	0.042229	18.4958	23680497.79
1112610190	Capacitor	EC6	Telcordia Issue 1	Level I		1.00	0.042229	4.6240	23680497.79
1655003120	Connection	FAN1	Telcordia Issue 1	Level I		1.00	0.028153	3.0826	35520746.69
1654260207	Connection	PCI1	Telcordia Issue 1	Level I		1.00	0.067566	7.3983	14800311.12
1654249205	Connection	PICMGB1	Telcordia Issue 1	Level I		1.00	0.055179	6.0420	18122829.94

AAEON Reliability Prediction Report

Part Number 9697IQ4504-D
Reference Des
Date 01. 13, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80



Description
File Name TF-AIS-Q452-A10.RPJ
Time 3:19 下午
Failure Rate 17.139178
MTBF 58,346

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
11E9501091	Capacitor	BC10,BC147,BC197, BC21,BC93,C107, C117,C124,C125, C166,C169,C179, C180,C181,C182, C183,C186,C188, C192,C193,C194, C195,C197,C20,C201, C212,C213,C217, C218,C22,C237,C24, C244,C247,C248, C251,C252,C255, C256,C258,C26,C	Telcordia Issue 1	Level I		88.00	0.004518	2.3196	221353427.43
1121501680	Capacitor	BC102,BC104,BC105, BC107,BC108,BC109, BC22,BC247,BC48, BC95,BC96,C127, C137,C138,C141, C142,C150,C151,C58	Telcordia Issue 1	Level I		19.00	0.005458	.6051	183201032.40
105A511513	Resistor	R716	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A502823	Resistor	R94	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
1174518180	Capacitor	CN3,CN4,CN5,CN7, CN9	Telcordia Issue 1	Level I		5.00	0.005458	.1592	183201032.40
165300420L	Connection	CN6	Telcordia Issue 1	Level I		1.00	0.004504	.0263	222004666.80
1651612992	Connection	CPU1	Telcordia Issue 1	Level I		1.00	0.001126	.0066	888018667.20
1129722680	Capacitor	C172,C269,C279, C280,C284,C287, C294,C3,C332,C69	Telcordia Issue 1	Level I		10.00	0.004518	.2636	221353427.43
1129701791	Capacitor	C100,C101,C102, C312,C313,C4,C5, C64,C79,C80,C86, C87,C88,C89,C95, C96,C97,C98,C99	Telcordia Issue 1	Level I		19.00	0.004518	.5008	221353427.43
1124468090	Capacitor	C145,C146,C8,C9	Telcordia Issue 1	Level I		4.00	0.004518	.1054	221353427.43
11E9622060	Capacitor	C12,C13,C14,C15, C17,C18,C19,C23, TC1,TC2,TC3,TC4, TC5,TC6,TC7,TC8, TC9	Telcordia Issue 1	Level I		17.00	0.004518	.4481	221353427.43
11E1647650	Capacitor	C104,C121,C229,C25, C250,C261,C296, C315,C316,C330,C71, C81,C90	Telcordia Issue 1	Level I		13.00	0.004518	.3427	221353427.43
11E9722090	Capacitor	C147,C155,C160, C199,C200,C27,C304, C322,DC1	Telcordia Issue 1	Level I		9.00	0.004518	.2372	221353427.43

AAEON Reliability Prediction Report

Part Number 9697IQ4504-D
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Temp. (°C) 24.80



Description
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Time 3:19 下午
Failure Rate 17.139178
MTBF 58,346

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1124522280	Capacitor	C29,C30	Telcordia Issue 1	Level I		2.00	0.004518	.0527	221353427.43
1121747890	Capacitor	C318,C52	Telcordia Issue 1	Level I		2.00	0.004518	.0527	221353427.43
1129710090	Capacitor	C144,C149,C159, C314,C319,C329,C54	Telcordia Issue 1	Level I		7.00	0.004518	.1845	221353427.43
1124510280	Capacitor	C108,C126,C133, C219,C232,C241, C260,C57	Telcordia Issue 1	Level I		8.00	0.005458	.2548	183201032.40
1129610051	Capacitor	C62,C73,EC27,TC19, TC25,TC26,TC27, TC33,TC35,TC44, TC48,TC49	Telcordia Issue 1	Level I		12.00	0.004518	.3163	221353427.43
1122522890	Capacitor	C65	Telcordia Issue 1	Level I		1.00	0.004518	.0264	221353427.43
1124510180	Capacitor	C306,C320,C321, C325,C75,C92	Telcordia Issue 1	Level I		6.00	0.004518	.1582	221353427.43
11E9647060	Capacitor	C103,C106,EC25, EC43	Telcordia Issue 1	Level I		4.00	0.004518	.1054	221353427.43
1121701790	Capacitor	C110,C114,C139, C168,C222	Telcordia Issue 1	Level I		5.00	0.004518	.1318	221353427.43
1121501050	Capacitor	C111,C119,C120, C128,C129,C143, C162,C164	Telcordia Issue 1	Level I		8.00	0.004518	.2109	221353427.43
1124568180	Capacitor	C132	Telcordia Issue 1	Level I		1.00	0.004518	.0264	221353427.43
1129710390	Capacitor	C154,C158,C174	Telcordia Issue 1	Level I		3.00	0.004518	.0791	221353427.43
1124433090	Capacitor	C176	Telcordia Issue 1	Level I		1.00	0.004518	.0264	221353427.43
1122747882	Capacitor	C198,C225,C227	Telcordia Issue 1	Level I		3.00	0.004518	.0791	221353427.43
11E9647680	Capacitor	C205,C216	Telcordia Issue 1	Level I		2.00	0.004518	.0527	221353427.43
1124418080	Capacitor	C223,C224,C231, C236	Telcordia Issue 1	Level I		4.00	0.004518	.1054	221353427.43
11E9622050	Capacitor	C245,C249,C271, C286,C290,TC41, TC50	Telcordia Issue 1	Level I		7.00	0.004518	.1845	221353427.43
1124527080	Capacitor	C266,C267	Telcordia Issue 1	Level I		2.00	0.005458	.0637	183201032.40
1129610080	Capacitor	C291,C292,C310, C317,TC10,TC11, TC12,TC13,TC14, TC15,TC16,TC17, TC18,TC20,TC21, TC22,TC23,TC24, TC28,TC29,TC30, TC31,TC32,TC34, TC36,TC37,TC38, TC39,TC40,TC42, TC43,TC46,TC47, TC51,TC52,TC53, TC54,TC55,TC56,	Telcordia Issue 1	Level I		44.00	0.004518	1.1598	221353427.43
1301005442	Semiconductor	D1	Telcordia Issue 1	Level I		1.00	0.023744	.1385	42115875.63
1315889612	Semiconductor	D2,Q20,Q22,Q24,Q41, Q42,Q6,Q68,Q7,Q8, Q9	Telcordia Issue 1	Level I		11.00	0.079147	5.0797	12634762.69

AAEON Reliability Prediction Report

Part Number 9697IQ4504-D
Reference Des
Date 01. 13, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80



Description
File Name TF-AIS-Q452-A10.RPJ
Time 3:19 下午
Failure Rate 17.139178
MTBF 58,346

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1315888010	Semiconductor	D3,Q10,Q15,Q4,Q43, Q72	Telcordia Issue 1	Level I		6.00	0.079147	2.7707	12634762.69
1300414843	Semiconductor	D5	Telcordia Issue 1	Level I		1.00	0.023744	.1385	42115875.63
1305099140	Semiconductor	D6,D7,U1,U25,U26, U3,U4	Telcordia Issue 1	Level I		7.00	0.079147	3.2325	12634762.69
1300001440	Semiconductor	D11,D12	Telcordia Issue 1	Level I		2.00	0.023744	.2771	42115875.63
118962218B	Capacitor	EC22,EC26,EC35, EC36	Telcordia Issue 1	Level I		4.00	0.004518	.1054	221353427.43
1189610189	Capacitor	EC20,EC32,EC33, EC34,EC38,EC41	Telcordia Issue 1	Level I		6.00	0.004518	.1582	221353427.43
1189647180	Capacitor	EC23,EC28,EC29, EC37	Telcordia Issue 1	Level I		4.00	0.004518	.1054	221353427.43
1189622850	Capacitor	EC30,EC31,EC39, EC40	Telcordia Issue 1	Level I		4.00	0.004518	.1054	221353427.43
121230805X	Inductor	FB1,FB30,FB31,FB35, FB43,FB45,FB53	Telcordia Issue 1	Level I		7.00	0.002259	.0923	442706854.87
1212306030	Inductor	FB14,FB51,FB63,FB8	Telcordia Issue 1	Level I		4.00	0.002259	.0527	442706854.87
1211102770	Inductor	FB15	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
1212306031	Inductor	FB16,FB42,FB56	Telcordia Issue 1	Level I		3.00	0.002259	.0395	442706854.87
121110100F	Inductor	FB18,FB46	Telcordia Issue 1	Level I		2.00	0.085836	1.0016	11650180.39
121110010Z	Inductor	FB20,FB24,FB36, FB49,FB60	Telcordia Issue 1	Level I		5.00	0.002259	.0659	442706854.87
121230603Z	Inductor	FB23,FB29,FB58, FB59,FB61,FB62, FB64,FB65,FB68	Telcordia Issue 1	Level I		9.00	0.002259	.1186	442706854.87
1059700001	Resistor	FB33,FB41,FB44, FB52,FB54,FB55	Telcordia Issue 1	Level I		6.00	0.002259	.0791	442706854.87
1211102269	Inductor	FB48	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
1752001601	Miscellaneous	F1,F2,F3,F4,F5,FS1	Telcordia Issue 1	Level I		6.00	0.003000	.1050	33333333.33
1211105673	Inductor	L3	Telcordia Issue 1	Level I		1.00	0.085836	.5008	11650180.39
1211102266	Inductor	L6	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
1211000180	Inductor	L11,L7	Telcordia Issue 1	Level I		2.00	0.002259	.0264	442706854.87
121110100P	Inductor	L12,L13,L8	Telcordia Issue 1	Level I		3.00	0.085836	1.5024	11650180.39
1315700211	Semiconductor	Q1,Q101,Q102,Q16, Q18,Q19,Q2,Q26,Q29, Q3,Q38,Q39,Q47,Q48, Q51,Q55,Q58,Q59, Q62,Q70,Q78,Q79, Q83,Q89,Q91	Telcordia Issue 1	Level I		25.00	0.079147	11.5447	12634762.69
1310222210	Semiconductor	Q12,Q13,Q14,Q23, Q40,Q44,Q49,Q50, Q54,Q56,Q57,Q60, Q61,Q63,Q64,Q66, Q69,Q71,Q76,Q80, Q84,Q87,Q88,Q92, Q93,Q95,Q96,Q97, Q98,Q99	Telcordia Issue 1	Level I		30.00	0.023744	4.1561	42115875.63

AAEON Reliability Prediction Report

Part Number 9697IQ4504-D
Reference Des
Date 01. 13, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80



Description
File Name TF-AIS-Q452-A10.RPJ
Time 3:19 下午
Failure Rate 17.139178
MTBF 58,346

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1315700217	Semiconductor	Q17,Q21,Q25,Q27, Q28,Q30,Q31	Telcordia Issue 1	Level I		7.00	0.079147	3.2325	12634762.69
1301005440	Semiconductor	Q32,Q73,Q77	Telcordia Issue 1	Level I		3.00	0.023744	.4156	42115875.63
1311006910	Semiconductor	Q35	Telcordia Issue 1	Level I		1.00	0.023744	.1385	42115875.63
1311138610	Semiconductor	Q36,Q37	Telcordia Issue 1	Level I		2.00	0.023744	.2771	42115875.63
1310390410	Semiconductor	Q1001,Q1002,Q1004, Q1008,Q1009,Q11, Q45,Q46,Q5,Q52,Q53	Telcordia Issue 1	Level I		11.00	0.023744	1.5239	42115875.63
1315230111	Semiconductor	Q65	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
1311390610	Semiconductor	Q67,Q90,Q94	Telcordia Issue 1	Level I		3.00	0.023744	.4156	42115875.63
1315441012	Semiconductor	Q82,Q86	Telcordia Issue 1	Level I		2.00	0.079147	.9236	12634762.69
1315305411	Semiconductor	Q81	Telcordia Issue 1	Level I		1.00	0.079147	.4618	12634762.69
131411171C	Integrated Circuit	Q103	Telcordia Issue 1	Level I		1.00	0.058503	.3413	17093092.17
105A500133	Resistor	R194,R211,R537, R538,R567,R644,RB1	Telcordia Issue 1	Level I		7.00	0.002259	.0923	442706854.87
1540782080	Resistor	RN1	Telcordia Issue 1	Level I		1.00	0.006189	.0361	161574538.37
1540782280	Resistor	RN17,RN18,RN2,RN20, RN4,RN6,RN7	Telcordia Issue 1	Level I		7.00	0.006189	.2528	161574538.37
1540710080	Resistor	RN3,RN5	Telcordia Issue 1	Level I		2.00	0.006189	.0722	161574538.37
1540700080	Resistor	RN10,RN21,RN8	Telcordia Issue 1	Level I		3.00	0.012378	.2167	80787269.19
1540768180	Resistor	RN11,RN9	Telcordia Issue 1	Level I		2.00	0.006189	.0722	161574538.37
1540751080	Resistor	RN12,RN14	Telcordia Issue 1	Level I		2.00	0.006189	.0722	161574538.37
1540747180	Resistor	RN15,RN16	Telcordia Issue 1	Level I		2.00	0.006189	.0722	161574538.37
1540727280	Resistor	RN19	Telcordia Issue 1	Level I		1.00	0.006189	.0361	161574538.37
106B501032	Resistor	RT2,RT3,RT4	Telcordia Issue 1	Level I		3.00	0.002259	.0395	442706854.87
105A700003	Resistor	FB2,FB4,FB40,FB47, FB50,FB57,FB6,FB66, FB67,R1,R1004, R1006,R1008,R1010, R1013,R1017,R104, R121,R138,R140, R148,R168,R170,R2, R239,R254,R279, R280,R332,R395, R408,R484,R497, R532,R582,R605, R629,R632,R726, R733,R742	Telcordia Issue 1	Level I		41.00	0.002259	.5404	442706854.87
105A704723	Resistor	R1000,R1014,R1022, R213,R3,R712	Telcordia Issue 1	Level I		6.00	0.002259	.0791	442706854.87

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Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80



Description
File Name TF-AIS-Q452-A10.RPJ
Time 3:19 下午
Failure Rate 17.139178
MTBF 58,346

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A500139	Resistor	R223,R224,R405, R413,R423,R469, R483,R493,R502, R505,R518,R520, R606,R615,R624, R630,R643,R65,R663, R68,R709,R719,R720, R721,R722	Telcordia Issue 1	Level I		25.00	0.002259	.3295	442706854.87
105A708223	Resistor	R1009,R1018,R1019, R1020,R161,R162, R163,R70,R707,R77, R78,R86,R91	Telcordia Issue 1	Level I		13.00	0.002259	.1713	442706854.87
105A702209	Resistor	R315,R401,R402, R411,R417,R437, R442,R453,R457, R529,R602,R71	Telcordia Issue 1	Level I		12.00	0.002259	.1582	442706854.87
105A501033	Resistor	R1001,R1003,R1007, R1015,R1016,R1024, R698,R73,R76,R80	Telcordia Issue 1	Level I		10.00	0.002259	.1318	442706854.87
105A702433	Resistor	R74	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A702223	Resistor	R153,R183,R351, R398,R75	Telcordia Issue 1	Level I		5.00	0.002259	.0659	442706854.87
105A768003	Resistor	R462,R472,R88	Telcordia Issue 1	Level I		3.00	0.002259	.0395	442706854.87
105A502039	Resistor	R234,R468,R503, R517,R715,R93	Telcordia Issue 1	Level I		6.00	0.002259	.0791	442706854.87
105A702729	Resistor	R197,R198,R199, R200,R201,R202, R203,R204,R205, R206,R207,R724, R735,R736,R737, R738,R739,R740	Telcordia Issue 1	Level I		18.00	0.002259	.2372	442706854.87
105A702263	Resistor	R196,R216,R217, R227,R228,R229, R230,R236,R248, R249,R257,R316, R718,R723,R96,R97, R99	Telcordia Issue 1	Level I		17.00	0.002259	.2240	442706854.87
105A545303	Resistor	R102,R564	Telcordia Issue 1	Level I		2.00	0.002259	.0264	442706854.87
105A532413	Resistor	R105,R544	Telcordia Issue 1	Level I		2.00	0.002259	.0264	442706854.87
1050551004	Resistor	R113	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A700133	Resistor	R116,R146,R154, R179,R559,R571, R576,R591,R609, R621,R677,R678, R679,R690,R713	Telcordia Issue 1	Level I		15.00	0.002259	.1977	442706854.87
105A701033	Resistor	R117,R118,R539, R570	Telcordia Issue 1	Level I		4.00	0.002259	.0527	442706854.87

AAEON Reliability Prediction Report

Part Number 9697IQ4504-D
Reference Des
Date 01. 13, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80



Description
File Name TF-AIS-Q452-A10.RPJ
Time 3:19 下午
Failure Rate 17.139178
MTBF 58,346

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A715009	Resistor	R119,R128,R131, R299,R512,R516, R524,R536,R540	Telcordia Issue 1	Level I		9.00	0.002259	.1186	442706854.87
105A515003	Resistor	R137	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A530103	Resistor	R120	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A510009	Resistor	R122,R130,R328, R404	Telcordia Issue 1	Level I		4.00	0.002259	.0527	442706854.87
105A549969	Resistor	R123,R129,R321, R326,R363,R382, R399,R673	Telcordia Issue 1	Level I		8.00	0.002259	.1054	442706854.87
1050557664	Resistor	R124,R327	Telcordia Issue 1	Level I		2.00	0.002259	.0264	442706854.87
105A516563	Resistor	R125	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A518233	Resistor	R132	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A510033	Resistor	R133	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A524903	Resistor	R135,R562	Telcordia Issue 1	Level I		2.00	0.002259	.0264	442706854.87
105A704703	Resistor	R141,R147,R670	Telcordia Issue 1	Level I		3.00	0.002259	.0395	442706854.87
105A703323	Resistor	R142,R151,R324	Telcordia Issue 1	Level I		3.00	0.002259	.0395	442706854.87
105A702203	Resistor	R143,R220,R708, R714	Telcordia Issue 1	Level I		4.00	0.002259	.0527	442706854.87
105A703303	Resistor	R150,R152,R438, R525	Telcordia Issue 1	Level I		4.00	0.002259	.0527	442706854.87
105A727033	Resistor	R165,R491,R583	Telcordia Issue 1	Level I		3.00	0.002259	.0395	442706854.87
105A575003	Resistor	R169	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A715033	Resistor	R177,R498,R587	Telcordia Issue 1	Level I		3.00	0.002259	.0395	442706854.87
105A702233	Resistor	R182,R186	Telcordia Issue 1	Level I		2.00	0.002259	.0264	442706854.87
105A707503	Resistor	R185,R188	Telcordia Issue 1	Level I		2.00	0.002259	.0264	442706854.87
105A500333	Resistor	R195	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A710003	Resistor	R212,R464,R514, R522	Telcordia Issue 1	Level I		4.00	0.002259	.0527	442706854.87
105A733003	Resistor	R221,R225,R226	Telcordia Issue 1	Level I		3.00	0.002259	.0395	442706854.87
105A524919	Resistor	R231	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
1050520004	Resistor	R232	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A701529	Resistor	R242,R253	Telcordia Issue 1	Level I		2.00	0.002259	.0264	442706854.87
1050502734	Resistor	R244	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A553629	Resistor	R247	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
1050539214	Resistor	R250,R260,R266, R281	Telcordia Issue 1	Level I		4.00	0.002259	.0527	442706854.87
1050549904	Resistor	R252,R256,R269, R274,R50	Telcordia Issue 1	Level I		5.00	0.002259	.0659	442706854.87
105A768009	Resistor	R255,R289	Telcordia Issue 1	Level I		2.00	0.002259	.0264	442706854.87
105A513009	Resistor	R265	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A515009	Resistor	R270,R272,R282, R285,R293,R296	Telcordia Issue 1	Level I		6.00	0.002259	.0791	442706854.87
105A700239	Resistor	R273	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87

AAEON Reliability Prediction Report

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Description
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Time 3:19 下午
Failure Rate 17.139178
MTBF 58,346

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A512039	Resistor	R276	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
1050724034	Resistor	R277	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A505109	Resistor	R294,R298,R304, R305,R309,R311, R312,R318,R319, R368,R372,R381	Telcordia Issue 1	Level I		12.00	0.002259	.1582	442706854.87
105A703909	Resistor	R302	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A527469	Resistor	R303	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A706209	Resistor	R310,R325,R329, R360,R380	Telcordia Issue 1	Level I		5.00	0.002259	.0659	442706854.87
105A701533	Resistor	R333	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A701009	Resistor	R340,R388,R403	Telcordia Issue 1	Level I		3.00	0.002259	.0395	442706854.87
105A705123	Resistor	R350,R378,R561	Telcordia Issue 1	Level I		3.00	0.002259	.0395	442706854.87
105A747009	Resistor	R362	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A501323	Resistor	R391	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
1050524904	Resistor	R394	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A557603	Resistor	R407	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A701503	Resistor	R416	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
1050703334	Resistor	R428,R441	Telcordia Issue 1	Level I		2.00	0.002259	.0264	442706854.87
105A704739	Resistor	R434,R436	Telcordia Issue 1	Level I		2.00	0.002259	.0264	442706854.87
1050519114	Resistor	R470	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A566519	Resistor	R480	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A549913	Resistor	R575,R588,R639	Telcordia Issue 1	Level I		3.00	0.002259	.0395	442706854.87
105A710053	Resistor	R511	Telcordia Issue 1	Level I		1.00	0.013553	.0791	73784475.81
1050512114	Resistor	R519	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A502033	Resistor	R523,R696,R711	Telcordia Issue 1	Level I		3.00	0.002259	.0395	442706854.87
105A701003	Resistor	R541,R619	Telcordia Issue 1	Level I		2.00	0.002259	.0264	442706854.87
105A580663	Resistor	R542,R547,R548	Telcordia Issue 1	Level I		3.00	0.002259	.0395	442706854.87
105A524963	Resistor	R545,R647	Telcordia Issue 1	Level I		2.00	0.002259	.0264	442706854.87
105A739033	Resistor	R554,R555	Telcordia Issue 1	Level I		2.00	0.002259	.0264	442706854.87
105A701053	Resistor	R556	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
1050700002	Resistor	R611	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A540263	Resistor	R622	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A539263	Resistor	R627	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A546403	Resistor	R649	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A510213	Resistor	R650	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A522663	Resistor	R653	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A505123	Resistor	R697	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87

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Description
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Time 3:19 下午
Failure Rate 17.139178
MTBF 58,346

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S9341100	Integrated Circuit	U5	Telcordia Issue 1	Level I		1.00	0.058503	.3413	17093092.17
14S5A23200	Integrated Circuit	U6	Telcordia Issue 1	Level I	27.00	1.00	0.111114	.6483	8999742.96
14S5A23200	Integrated Circuit	U7	Telcordia Issue 1	Level I		1.00	0.025876	.1510	38645358.49
14S4654500	Integrated Circuit	U37,U8	Telcordia Issue 1	Level I		2.00	0.058503	.6827	17093092.17
14S4256700	Integrated Circuit	U9	Telcordia Issue 1	Level I		1.00	0.025876	.1510	38645358.49
14S2750100	Integrated Circuit	U10	Telcordia Issue 1	Level I		1.00	0.058503	.3413	17093092.17
14S3917900	Integrated Circuit	U11	Telcordia Issue 1	Level I		1.00	0.058503	.3413	17093092.17
14S4280123	Integrated Circuit	U12	Telcordia Issue 1	Level I	20.10	1.00	0.078390	.4574	12756656.07
14S4824500	Integrated Circuit	U13	Telcordia Issue 1	Level I	22.80	1.00	0.090017	.5252	11109000.48
14S4825740	Integrated Circuit	U14	Telcordia Issue 1	Level I		1.00	0.025876	.1510	38645358.49
14S3088801	Integrated Circuit	U15	Telcordia Issue 1	Level I	21.40	1.00	0.252552	1.4735	3959577.11
14S2261200	Integrated Circuit	U16	Telcordia Issue 1	Level I		1.00	0.058503	.3413	17093092.17
1314533610	Integrated Circuit	U17,U34	Telcordia Issue 1	Level I		2.00	0.058503	.6827	17093092.17
14S4661400	Integrated Circuit	U18	Telcordia Issue 1	Level I	29.70	1.00	0.423021	2.4682	2363947.95
14S9662200	Integrated Circuit	U22	Telcordia Issue 1	Level I		1.00	0.058503	.3413	17093092.17
14S9661200	Integrated Circuit	U19	Telcordia Issue 1	Level I	36.20	1.00	0.622327	3.6310	1606872.09
14S3633400	Integrated Circuit	U23	Telcordia Issue 1	Level I		1.00	0.058503	.3413	17093092.17
14S4871800	Integrated Circuit	U27	Telcordia Issue 1	Level I		1.00	0.025876	.1510	38645358.49
14S3050500	Integrated Circuit	U29	Telcordia Issue 1	Level I	25.70	1.00	0.331009	1.9313	3021064.16
1315344310	Integrated Circuit	U33	Telcordia Issue 1	Level I		1.00	0.058503	.3413	17093092.17
1314108412	Integrated Circuit	U35	Telcordia Issue 1	Level I		1.00	0.058503	.3413	17093092.17
14S6308001	Integrated Circuit	U36	Telcordia Issue 1	Level I		1.00	0.035361	.2063	28279854.47
1231325058	Miscellaneous	X1,Y1	Telcordia Issue 1	Level I		2.00	0.150000	1.7504	6666666.67
1231332721	Miscellaneous	X2	Telcordia Issue 1	Level I		1.00	0.150000	.8752	6666666.67
123131435B	Miscellaneous	X3	Telcordia Issue 1	Level I		1.00	0.150000	.8752	6666666.67
105A752323	Resistor	R504	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A518214	Resistor	R95	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A516913	Resistor	R488	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A519613	Resistor	R612	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
105A597604	Resistor	R489	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
121230603M	Inductor	FB34,FB37	Telcordia Issue 1	Level I		2.00	0.002259	.0264	442706854.87
121230603D	Inductor	FB3,FB5,FB7	Telcordia Issue 1	Level I		3.00	0.002259	.0395	442706854.87
1214309000	Inductor	CM1,CM2,CM3,CM4, CM5,CM6	Telcordia Issue 1	Level I		6.00	0.002259	.0791	442706854.87
105A525563	Resistor	R680	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
121230805H	Inductor	FB39	Telcordia Issue 1	Level I		1.00	0.002259	.0132	442706854.87
1315700212	Semiconductor	Q1000,Q1006,Q1010	Telcordia Issue 1	Level I		3.00	0.079147	1.3854	12634762.69

