

AIS-Q450

Reliability Prediction Report

(MTBF)

Report NO. : 10I070001

01-13-2010

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** TF-AIS-Q450-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: 24.6 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-Q450-A10 (Not include FAN and power supply):
Failure Rate: 19.041793 ppm
MTBF: 52,516 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.220W.90-264V.Full Range.Flex ATX.CWT.PSM220H
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) 24.60



Description Top-level assembly
File Name TF-AIS-Q450-A10.RPJ
Time 4:16 下午
Failure Rate 19.041793
MTBF 52,516

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-AIS-Q450-A10	System	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	19.04	52516.06
IMBI-Q45	9697IQ4504-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	19.04	52516.06

AAEON Reliability Prediction Report

Part Number 9697IQ4504-D
Reference Des
Date 01. 13, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.60



Description
File Name TF-AIS-Q450-A10.RPJ
Time 4:16 下午
Failure Rate 19.041793
MTBF 52,516

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	0.004500	2.0796	222224377.26
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	0.005451	.5439	183440995.70
105A511513	Resistor	R716	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A502823	Resistor	R94	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
1174518180	Capacitor	CN3,CN4,CN5,CN7, CN9	Telcordia Issue 1	Level I		5.00	0.005451	.1431	183440995.70
165300420L	Connection	CN6	Telcordia Issue 1	Level I		1.00	0.004457	.0234	224341677.14
1651612992	Connection	CPU1	Telcordia Issue 1	Level I		1.00	0.001114	.0059	897366708.56
1129722680	Capacitor	C172,C269,C279, C280,C284,C287, C294,C3,C332,C69	Telcordia Issue 1	Level I		10.00	0.004500	.2363	222224377.26
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	0.004500	.4490	222224377.26
1124468090	Capacitor	C145,C146,C8,C9	Telcordia Issue 1	Level I		4.00	0.004500	.0945	222224377.26
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	0.004500	.4017	222224377.26
11E1647650	Capacitor	C104,C121,C229,C25, C250,C261,C296, C315,C316,C330,C71, C81,C90	Telcordia Issue 1	Level I		13.00	0.004500	.3072	222224377.26
11E9722090	Capacitor	C147,C155,C160, C199,C200,C27,C304, C322,DC1	Telcordia Issue 1	Level I		9.00	0.004500	.2127	222224377.26

AAEON Reliability Prediction Report

Part Number 9697IQ4504-D
Reference Des
Date 01. 13, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.60



Description
File Name TF-AIS-Q450-A10.RPJ
Time 4:16 下午
Failure Rate 19.041793
MTBF 52,516

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	0.004500	.0473	222224377.26
1121747890	Capacitor	C318,C52	Telcordia Issue 1	Level I		2.00	0.004500	.0473	222224377.26
1129710090	Capacitor	C144,C149,C159, C314,C319,C329,C54	Telcordia Issue 1	Level I		7.00	0.004500	.1654	222224377.26
1124510280	Capacitor	C108,C126,C133, C219,C232,C241, C260,C57	Telcordia Issue 1	Level I		8.00	0.005451	.2290	183440995.70
1129610051	Capacitor	C62,C73,EC27,TC19, TC25,TC26,TC27, TC33,TC35,TC44, TC48,TC49	Telcordia Issue 1	Level I		12.00	0.004500	.2836	222224377.26
1122522890	Capacitor	C65	Telcordia Issue 1	Level I		1.00	0.004500	.0236	222224377.26
1124510180	Capacitor	C306,C320,C321, C325,C75,C92	Telcordia Issue 1	Level I		6.00	0.004500	.1418	222224377.26
11E9647060	Capacitor	C103,C106,EC25, EC43	Telcordia Issue 1	Level I		4.00	0.004500	.0945	222224377.26
1121701790	Capacitor	C110,C114,C139, C168,C222	Telcordia Issue 1	Level I		5.00	0.004500	.1182	222224377.26
1121501050	Capacitor	C111,C119,C120, C128,C129,C143, C162,C164	Telcordia Issue 1	Level I		8.00	0.004500	.1891	222224377.26
1124568180	Capacitor	C132	Telcordia Issue 1	Level I		1.00	0.004500	.0236	222224377.26
1129710390	Capacitor	C154,C158,C174	Telcordia Issue 1	Level I		3.00	0.004500	.0709	222224377.26
1124433090	Capacitor	C176	Telcordia Issue 1	Level I		1.00	0.004500	.0236	222224377.26
1122747882	Capacitor	C198,C225,C227	Telcordia Issue 1	Level I		3.00	0.004500	.0709	222224377.26
11E9647680	Capacitor	C205,C216	Telcordia Issue 1	Level I		2.00	0.004500	.0473	222224377.26
1124418080	Capacitor	C223,C224,C231, C236	Telcordia Issue 1	Level I		4.00	0.004500	.0945	222224377.26
11E9622050	Capacitor	C245,C249,C271, C286,C290,TC41, TC50	Telcordia Issue 1	Level I		7.00	0.004500	.1654	222224377.26
1124527080	Capacitor	C266,C267	Telcordia Issue 1	Level I		2.00	0.005451	.0573	183440995.70
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	0.004500	1.0398	222224377.26
1301005442	Semiconductor	D1	Telcordia Issue 1	Level I		1.00	0.023608	.1240	42359142.19
1315889612	Semiconductor	D2,Q20,Q22,Q24,Q41, Q42,Q6,Q68,Q7,Q9	Telcordia Issue 1	Level I		10.00	0.078692	4.1326	12707742.66

AAEON Reliability Prediction Report

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Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.60

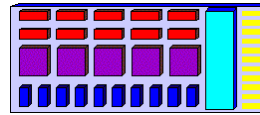


Description
File Name TF-AIS-Q450-A10.RPJ
Time 4:16 下午
Failure Rate 19.041793
MTBF 52,516

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
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	0.023608	3.7193	42359142.19
1315700217	Semiconductor	Q17,Q21,Q25,Q27, Q28,Q30,Q31	Telcordia Issue 1	Level I		7.00	0.078692	2.8928	12707742.66
1301005440	Semiconductor	Q32,Q73,Q77	Telcordia Issue 1	Level I		3.00	0.023608	.3719	42359142.19
1311006910	Semiconductor	Q35	Telcordia Issue 1	Level I		1.00	0.023608	.1240	42359142.19
1311138610	Semiconductor	Q36,Q37	Telcordia Issue 1	Level I		2.00	0.023608	.2480	42359142.19
1310390410	Semiconductor	Q1001,Q1002,Q1004, Q1008,Q1009,Q11, Q45,Q46,Q5,Q52,Q53	Telcordia Issue 1	Level I		11.00	0.023608	1.3638	42359142.19
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	0.023608	.3719	42359142.19
1315441012	Semiconductor	Q82,Q86	Telcordia Issue 1	Level I		2.00	0.078692	.8265	12707742.66
1315305411	Semiconductor	Q81	Telcordia Issue 1	Level I	19.80	1.00	0.134361	.7056	7442653.84
131411171C	Integrated Circuit	Q103	Telcordia Issue 1	Level I		1.00	0.057652	.3028	17345532.46
105A500133	Resistor	R194,R211,R537, R538,R567,R644,RB1	Telcordia Issue 1	Level I		7.00	0.002250	.0827	444448754.52
1540782080	Resistor	RN1	Telcordia Issue 1	Level I		1.00	0.006133	.0322	163061825.44
1540782280	Resistor	RN17,RN18,RN2,RN20, RN4,RN6,RN7	Telcordia Issue 1	Level I		7.00	0.006133	.2254	163061825.44
1540710080	Resistor	RN3,RN5	Telcordia Issue 1	Level I		2.00	0.006133	.0644	163061825.44
1540700080	Resistor	RN10,RN21,RN8	Telcordia Issue 1	Level I		3.00	0.012265	.1932	81530912.72
1540768180	Resistor	RN11,RN9	Telcordia Issue 1	Level I		2.00	0.006133	.0644	163061825.44
1540751080	Resistor	RN12,RN14	Telcordia Issue 1	Level I		2.00	0.006133	.0644	163061825.44
1540747180	Resistor	RN15,RN16	Telcordia Issue 1	Level I		2.00	0.006133	.0644	163061825.44
1540727280	Resistor	RN19	Telcordia Issue 1	Level I		1.00	0.006133	.0322	163061825.44
106B501032	Resistor	RT2,RT3,RT4	Telcordia Issue 1	Level I		3.00	0.002250	.0354	444448754.52

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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
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	0.002250	.4845	444448754.52
105A704723	Resistor	R1000,R1014,R1022, R213,R3,R712	Telcordia Issue 1	Level I		6.00	0.002250	.0709	444448754.52
105A700139	Resistor	R145,R20,R245,R271, R287,R288,R290, R301,R353,R392, R393,R400,R409, R420,R432,R439, R440,R444,R451, R459,R477,R481, R487,R495,R507, R508,R585,R599, R628,R641,R651, R656,R657,R671, R683,R686,R706,R72, R9	Telcordia Issue 1	Level I		39.00	0.002250	.4608	444448754.52
105A705129	Resistor	R10,R13,R727, R729	Telcordia Issue 1	Level I		4.00	0.002250	.0473	444448754.52
105A702229	Resistor	R12,R33,R334,R36, R37,R38,R424,R43, R687,R728	Telcordia Issue 1	Level I		10.00	0.002250	.1182	444448754.52
105A700009	Resistor	R1029,R1030,R114, R115,R155,R159, R160,R178,R189, R190,R191,R21,R246, R267,R268,R339, R347,R355,R356, R367,R371,R377, R385,R387,R396, R397,R47,R506,R528, R54,R558,R56,R579, R589,R61,R610,R620, R625,R648,R688, R692,R695,R699,	Telcordia Issue 1	Level I		45.00	0.002250	.5317	444448754.52

AAEON Reliability Prediction Report

Part Number 9697IQ4504-D
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Environment GF, GU - Ground Fixed, Uncontrolled
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Time 4:16 下午
Failure Rate 19.041793
MTBF 52,516

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A703329	Resistor	R16,R184,R233	Telcordia Issue 1	Level I		3.00	0.002250	.0354	444448754.52
105A501539	Resistor	R17,R187,R241	Telcordia Issue 1	Level I		3.00	0.002250	.0354	444448754.52
1050506224	Resistor	R18,R192,R323	Telcordia Issue 1	Level I		3.00	0.002250	.0354	444448754.52
105A708229	Resistor	R106,R108,R109, R110,R111,R112, R139,R149,R158,R19, R23,R26,R262,R28, R29,R297,R30,R31, R322,R331,R343, R357,R374,R390, R406,R414,R421, R443,R446,R467, R473,R490,R510, R521,R531,R533, R534,R546,R55,R551, R563,R57,R572,R	Telcordia Issue 1	Level I		75.00	0.002250	.8862	444448754.52
105A700103	Resistor	R134,R136,R215,R22, R238,R317,R580, R581,R593,R600, R645,R652,R675, R685	Telcordia Issue 1	Level I		14.00	0.002250	.1654	444448754.52
105A701039	Resistor	R127,R214,R235,R24, R243,R275,R278, R314,R454,R595, R596,R597,R601, R604	Telcordia Issue 1	Level I		14.00	0.002250	.1654	444448754.52
105A702239	Resistor	R218,R25	Telcordia Issue 1	Level I		2.00	0.002250	.0236	444448754.52
105A704729	Resistor	R27,R383,R425,R435, R52,R658,R672	Telcordia Issue 1	Level I		7.00	0.002250	.0827	444448754.52
105A710009	Resistor	R14,R237,R240,R34, R341,R39,R40,R42, R509,R731	Telcordia Issue 1	Level I		10.00	0.002250	.1182	444448754.52
105A702033	Resistor	R44,R557	Telcordia Issue 1	Level I		2.00	0.002250	.0236	444448754.52
105A705133	Resistor	R63,R92	Telcordia Issue 1	Level I		2.00	0.002250	.0236	444448754.52
105A703309	Resistor	R412,R415,R419, R422,R427,R433, R445,R447,R448, R449,R450,R452, R455,R456,R460, R461,R463,R466, R471,R475,R476, R478,R479,R482, R485,R492,R494, R496,R500,R501,R64, R661,R665,R669, R674	Telcordia Issue 1	Level I		35.00	0.002250	.4136	444448754.52

AAEON Reliability Prediction Report

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Temp. (°C) 24.60



Description
File Name TF-AIS-Q450-A10.RPJ
Time 4:16 下午
Failure Rate 19.041793
MTBF 52,516

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	0.002250	.1063	444448754.52
105A515003	Resistor	R137	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A530103	Resistor	R120	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A510009	Resistor	R122,R130,R328, R404	Telcordia Issue 1	Level I		4.00	0.002250	.0473	444448754.52
105A549969	Resistor	R123,R129,R321, R326,R363,R382, R399,R673	Telcordia Issue 1	Level I		8.00	0.002250	.0945	444448754.52
1050557664	Resistor	R124,R327	Telcordia Issue 1	Level I		2.00	0.002250	.0236	444448754.52
105A516563	Resistor	R125	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A518233	Resistor	R132	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A510033	Resistor	R133	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A524903	Resistor	R135,R562	Telcordia Issue 1	Level I		2.00	0.002250	.0236	444448754.52
105A704703	Resistor	R141,R147,R670	Telcordia Issue 1	Level I		3.00	0.002250	.0354	444448754.52
105A703323	Resistor	R142,R151,R324	Telcordia Issue 1	Level I		3.00	0.002250	.0354	444448754.52
105A702203	Resistor	R143,R220,R708, R714	Telcordia Issue 1	Level I		4.00	0.002250	.0473	444448754.52
105A703303	Resistor	R150,R152,R438, R525	Telcordia Issue 1	Level I		4.00	0.002250	.0473	444448754.52
105A727033	Resistor	R165,R491,R583	Telcordia Issue 1	Level I		3.00	0.002250	.0354	444448754.52
105A575003	Resistor	R169	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A715033	Resistor	R177,R498,R587	Telcordia Issue 1	Level I		3.00	0.002250	.0354	444448754.52
105A702233	Resistor	R182,R186	Telcordia Issue 1	Level I		2.00	0.002250	.0236	444448754.52
105A707503	Resistor	R185,R188	Telcordia Issue 1	Level I		2.00	0.002250	.0236	444448754.52
105A500333	Resistor	R195	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A710003	Resistor	R212,R464,R514, R522	Telcordia Issue 1	Level I		4.00	0.002250	.0473	444448754.52
105A733003	Resistor	R221,R225,R226	Telcordia Issue 1	Level I		3.00	0.002250	.0354	444448754.52
105A524919	Resistor	R231	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
1050520004	Resistor	R232	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A701529	Resistor	R242,R253	Telcordia Issue 1	Level I		2.00	0.002250	.0236	444448754.52
1050502734	Resistor	R244	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A553629	Resistor	R247	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
1050539214	Resistor	R250,R260,R266, R281	Telcordia Issue 1	Level I		4.00	0.002250	.0473	444448754.52
1050549904	Resistor	R252,R256,R269, R274,R50	Telcordia Issue 1	Level I		5.00	0.002250	.0591	444448754.52
105A768009	Resistor	R255,R289	Telcordia Issue 1	Level I		2.00	0.002250	.0236	444448754.52
105A513009	Resistor	R265	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A515009	Resistor	R270,R272,R282, R285,R293,R296	Telcordia Issue 1	Level I		6.00	0.002250	.0709	444448754.52
105A700239	Resistor	R273	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52

AAEON Reliability Prediction Report

Part Number 9697IQ4504-D
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Date 01. 13, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.60



Description
File Name TF-AIS-Q450-A10.RPJ
Time 4:16 下午
Failure Rate 19.041793
MTBF 52,516

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	0.002250	.0118	444448754.52
1050724034	Resistor	R277	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A505109	Resistor	R294,R298,R304, R305,R309,R311, R312,R318,R319, R368,R372,R381	Telcordia Issue 1	Level I		12.00	0.002250	.1418	444448754.52
105A703909	Resistor	R302	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A527469	Resistor	R303	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A706209	Resistor	R310,R325,R329, R360,R380	Telcordia Issue 1	Level I		5.00	0.002250	.0591	444448754.52
105A701533	Resistor	R333	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A701009	Resistor	R340,R388,R403	Telcordia Issue 1	Level I		3.00	0.002250	.0354	444448754.52
105A705123	Resistor	R350,R378,R561	Telcordia Issue 1	Level I		3.00	0.002250	.0354	444448754.52
105A747009	Resistor	R362	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A501323	Resistor	R391	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
1050524904	Resistor	R394	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A557603	Resistor	R407	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A701503	Resistor	R416	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
1050703334	Resistor	R428,R441	Telcordia Issue 1	Level I		2.00	0.002250	.0236	444448754.52
105A704739	Resistor	R434,R436	Telcordia Issue 1	Level I		2.00	0.002250	.0236	444448754.52
1050519114	Resistor	R470	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A566519	Resistor	R480	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A549913	Resistor	R575,R588,R639	Telcordia Issue 1	Level I		3.00	0.002250	.0354	444448754.52
105A710053	Resistor	R511	Telcordia Issue 1	Level I		1.00	0.013500	.0709	74074792.42
1050512114	Resistor	R519	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A502033	Resistor	R523,R696,R711	Telcordia Issue 1	Level I		3.00	0.002250	.0354	444448754.52
105A701003	Resistor	R541,R619	Telcordia Issue 1	Level I		2.00	0.002250	.0236	444448754.52
105A580663	Resistor	R542,R547,R548	Telcordia Issue 1	Level I		3.00	0.002250	.0354	444448754.52
105A524963	Resistor	R545,R647	Telcordia Issue 1	Level I		2.00	0.002250	.0236	444448754.52
105A739033	Resistor	R554,R555	Telcordia Issue 1	Level I		2.00	0.002250	.0236	444448754.52
105A701053	Resistor	R556	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
1050700002	Resistor	R611	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A540263	Resistor	R622	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A539263	Resistor	R627	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A546403	Resistor	R649	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A510213	Resistor	R650	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A522663	Resistor	R653	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A505123	Resistor	R697	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52

AAEON Reliability Prediction Report

Part Number 9697IQ4504-D
Reference Des
Date 01. 13, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.60



Description
File Name TF-AIS-Q450-A10.RPJ
Time 4:16 下午
Failure Rate 19.041793
MTBF 52,516

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	22.10	1.00	0.260720	1.3692	3835525.12
14S5A23200	Integrated Circuit	U6	Telcordia Issue 1	Level I	20.70	1.00	0.080025	.4203	12496098.87
14S5A23200	Integrated Circuit	U7	Telcordia Issue 1	Level I		1.00	0.025573	.1343	39103324.41
14S4654500	Integrated Circuit	U37,U8	Telcordia Issue 1	Level I		2.00	0.057652	.6055	17345532.46
14S4256700	Integrated Circuit	U9	Telcordia Issue 1	Level I	26.80	1.00	0.108934	.5721	9179881.48
14S2750100	Integrated Circuit	U10	Telcordia Issue 1	Level I		1.00	0.057652	.3028	17345532.46
14S3917900	Integrated Circuit	U11	Telcordia Issue 1	Level I		1.00	0.057652	.3028	17345532.46
14S4280123	Integrated Circuit	U12	Telcordia Issue 1	Level I	24.00	1.00	0.094692	.4973	10560531.01
14S4824500	Integrated Circuit	U13	Telcordia Issue 1	Level I	24.30	1.00	0.096136	.5049	10401969.16
14S4825740	Integrated Circuit	U14	Telcordia Issue 1	Level I	18.90	1.00	0.072898	.3828	13717770.69
14S3088801	Integrated Circuit	U15	Telcordia Issue 1	Level I	19.10	1.00	0.215069	1.1295	4649676.96
14S2261200	Integrated Circuit	U16	Telcordia Issue 1	Level I	28.30	1.00	0.383767	2.0154	2605750.95
1314533610	Integrated Circuit	U17,U34	Telcordia Issue 1	Level I		2.00	0.057652	.6055	17345532.46
14S4661400	Integrated Circuit	U18	Telcordia Issue 1	Level I	28.30	1.00	0.383767	2.0154	2605750.95
14S9662200	Integrated Circuit	U22	Telcordia Issue 1	Level I		1.00	0.057652	.3028	17345532.46
14S9661200	Integrated Circuit	U19	Telcordia Issue 1	Level I	24.10	1.00	0.295829	1.5536	3380329.81
14S3633400	Integrated Circuit	U23	Telcordia Issue 1	Level I	39.70	1.00	0.752772	3.9533	1328422.75
14S4871800	Integrated Circuit	U27	Telcordia Issue 1	Level I	23.20	1.00	0.090936	.4776	10996793.54
14S3050500	Integrated Circuit	U29	Telcordia Issue 1	Level I	21.10	1.00	0.244616	1.2846	4088047.58
1315344310	Integrated Circuit	U33	Telcordia Issue 1	Level I		1.00	0.057652	.3028	17345532.46
1314108412	Integrated Circuit	U35	Telcordia Issue 1	Level I	24.00	1.00	0.293977	1.5439	3401623.31
14S6308001	Integrated Circuit	U36	Telcordia Issue 1	Level I		1.00	0.034846	.1830	28697507.10
1231325058	Miscellaneous	X1,Y1	Telcordia Issue 1	Level I		2.00	0.150000	1.5755	6666666.67
1231332721	Miscellaneous	X2	Telcordia Issue 1	Level I		1.00	0.150000	.7877	6666666.67
123131435B	Miscellaneous	X3	Telcordia Issue 1	Level I		1.00	0.150000	.7877	6666666.67
105A752323	Resistor	R504	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A518214	Resistor	R95	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A516913	Resistor	R488	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A519613	Resistor	R612	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
105A597604	Resistor	R489	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
121230603M	Inductor	FB34,FB37	Telcordia Issue 1	Level I		2.00	0.002250	.0236	444448754.52
121230603D	Inductor	FB3,FB5,FB7	Telcordia Issue 1	Level I		3.00	0.002250	.0354	444448754.52
1214309000	Inductor	CM1,CM2,CM3,CM4, CM5,CM6	Telcordia Issue 1	Level I		6.00	0.002250	.0709	444448754.52
105A525563	Resistor	R680	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
121230805H	Inductor	FB39	Telcordia Issue 1	Level I		1.00	0.002250	.0118	444448754.52
1315700212	Semiconductor	Q1000,Q1006,Q1010	Telcordia Issue 1	Level I		3.00	0.078692	1.2398	12707742.66

