

AIS-Q574

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 13.755676 ppm MTBF: 72,697 Hours
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Issue date	Approval	Test Engineer
2011/09/13	Jansin Lee	Matthew Chi

Reliability Prediction (MTBF)

I . Model Name: TF-AIS-Q574-A10

II . Prediction Date: September. 13, 2011

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

IV . Predicted by: Matthew Chi

V . Equipment: Relex Ver.7.3 Visual Reliability Software

VI. Simulation Environment:

- Temperature: 25.0 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-AIS-Q574-A10:

- Failure Rate: 13.755676ppm
- MTBF: 72,697Hours

Below components value were provided by the suppliers:

- (TF)CPU Cooler Fan.LGA 1156 socket.3P.12V.2-Ball Bearing.Dynatron.K785 (2U cooler)
MTBF: 50,000 Hours
- (TF) SPS.275W.90-264V.Flex ATX.Active PFC.CWT.G99-PSM275H-N222
MTBF: 100,000 Hours

AAEON Reliability Prediction Report

Part Number TF-AIS-Q574-A10
Reference Des
Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

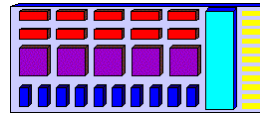


Description Top-level assembly
File Name TF-AIS-Q574-A10.RPJ
Time 17:13
Failure Rate 13.755676
MTBF 72,697

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
System	TF-AIS-Q574-A10	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	13.76	72697.27
Riser Card	9697R23X01-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	.22	4545617.84
IMBI-Q57 A2.0	9697IQ5705-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	13.54	73878.80

AAEON Reliability Prediction Report

Part Number 9697R23X01-D
Reference Des
Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-AIS-Q574-A10.RPJ
Time 17:13
Failure Rate 0.219992
MTBF 4,545,618

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1124701680	Capacitor	BC1,BC10,BC62	Telcordia Issue 1	Level I		3.00	0.004535	6.1849	220487045.01
1121501691	Capacitor	BC11,BC2,BC3,BC4,BC5,BC6,BC60,BC61,BC63,BC64,BC7,BC8, BC9	Telcordia Issue 1	Level I		13.00	0.004535	26.8011	220487045.01
1189633193	Capacitor	C1,C2	Telcordia Issue 1	Level I		2.00	0.004535	4.1233	220487045.01
11C4501790	Capacitor	C3,C4,C5	Telcordia Issue 1	Level I		3.00	0.004535	6.1849	220487045.01
105A501039	Resistor	R10,R11,R12,R9	Telcordia Issue 1	Level I		4.00	0.002268	4.1233	440974090.03
105A700009	Resistor	BC12,BC13,BC14,BC15,BC16,BC17,BC18,BC19,BC20,BC21,BC22,BC23,BC25,BC26,BC27,BC28,BC29,BC30,BC35,BC36,BC37,BC38,BC39,BC40,BC42,BC45,BC46,BC47,BC48,BC49,BC50,BC51,BC52,BC53,BC54,BC55,BC56,BC57,BC58,	Telcordia Issue 1	Level I		46.00	0.002268	47.4174	440974090.03
11C2510190	Capacitor	TC7	Telcordia Issue 1	Level I		1.00	0.004535	2.0616	220487045.01
1654232200	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.001138	.5173	878780270.71
1654218200	Connection	PCIE 1,PCIE 2	Telcordia Issue 1	Level I		2.00	0.001138	1.0345	878780270.71
1654282204	Connection	PICMGA1,X16PCIE1	Telcordia Issue 1	Level I		2.00	0.001138	1.0345	878780270.71
1654249205	Connection	PICMGB1	Telcordia Issue 1	Level I		1.00	0.001138	.5173	878780270.71

AAEON Reliability Prediction Report

Part Number 9697IQ5705-D
Reference Des
Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

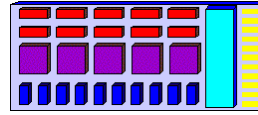


Description
File Name TF-AIS-Q574-A10.RPJ
Time 17:13
Failure Rate 13.535684
MTBF 73,879

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1129701790	Capacitor	C113,C118,C120,C14, C176,C20,C21,C213, C22,C222,C225,C229, C23,C24,C25,C26, C27,C31,C32,C33, C34,C35,C36,C37, C38,C56	Telcordia Issue 1	Level I		26.00	0.004535	.8712	220487045.01
1121701080	Capacitor	C111,C15,C155,C182, C193,C209,C210, C215,C216,C242, C243,C244,C287,C45, C95	Telcordia Issue 1	Level I		15.00	0.004535	.5026	220487045.01
1124522880	Capacitor	C18	Telcordia Issue 1	Level I		1.00	0.004535	.0335	220487045.01
1124447180	Capacitor	C19,C4	Telcordia Issue 1	Level I		2.00	0.004535	.0670	220487045.01
1124410191	Capacitor	C115,C116,C117, C265,C266,C267,C28, C48,C91	Telcordia Issue 1	Level I		9.00	0.004535	.3016	220487045.01
1129722680	Capacitor	C39,C93	Telcordia Issue 1	Level I		2.00	0.004535	.0670	220487045.01
1124427091	Capacitor	C106,C112,C119, C196,C228,C231, C236,C241,C252, C253,C260,C261, C262,C263,C43,C44	Telcordia Issue 1	Level I		16.00	0.004535	.5361	220487045.01
1129622050	Capacitor	C165,C186,C50,C51, C52,C53,C54,C55, C57,C58,C59,C60, C61,C62,C63,C64, C65,C66,C68,C69, C70,C71,C72,C73, C74,C75,C76,C77, C78,C81,C82,C83, C84,C85,C86,C87	Telcordia Issue 1	Level I		36.00	0.004535	1.2063	220487045.01
1124468090	Capacitor	C183,C188,C79	Telcordia Issue 1	Level I		3.00	0.004535	.1005	220487045.01
1129722091	Capacitor	C101,C88	Telcordia Issue 1	Level I		2.00	0.004535	.0670	220487045.01
1124510280	Capacitor	C202,C89	Telcordia Issue 1	Level I		2.00	0.004535	.0670	220487045.01
1124568180	Capacitor	C90	Telcordia Issue 1	Level I		1.00	0.004535	.0335	220487045.01
11C4582190	Capacitor	C97	Telcordia Issue 1	Level I		1.00	0.004535	.0335	220487045.01
1124522190	Capacitor	C98,C99	Telcordia Issue 1	Level I		2.00	0.004535	.0670	220487045.01
1124501780	Capacitor	C100,C208,C234, C288	Telcordia Issue 1	Level I		4.00	0.004535	.1340	220487045.01
1124556180	Capacitor	C102	Telcordia Issue 1	Level I		1.00	0.004535	.0335	220487045.01
1124547190	Capacitor	C103,C104,C110, C245,C246,C247, C248,C249	Telcordia Issue 1	Level I		8.00	0.004535	.2681	220487045.01
1121501050	Capacitor	C107,C121	Telcordia Issue 1	Level I		2.00	0.004535	.0670	220487045.01

AAEON Reliability Prediction Report

Part Number 9697IQ5705-D
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Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
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Time 17:13
Failure Rate 13.535684
MTBF 73,879

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
11E9547680	Capacitor	C109,C254,C256, C257	Telcordia Issue 1	Level I		4.00	0.004535	.1340	220487045.01
1189633193	Capacitor	C123,C126,C192, C258,C272	Telcordia Issue 1	Level I		5.00	0.004535	.1675	220487045.01
1124433190	Capacitor	C125,C127	Telcordia Issue 1	Level I		2.00	0.004535	.0670	220487045.01
118961018A	Capacitor	C128,C129,C134, C171,C195,C277, C278	Telcordia Issue 1	Level I		7.00	0.004535	.2345	220487045.01
11E9647680	Capacitor	C132,C147,C149, C167,C168,C190, C194,C197,C211, C212,C217,C221, C233,C237	Telcordia Issue 1	Level I		14.00	0.004535	.4691	220487045.01
1124515880	Capacitor	C156	Telcordia Issue 1	Level I		1.00	0.004535	.0335	220487045.01
1124433090	Capacitor	C162,C166	Telcordia Issue 1	Level I		2.00	0.004535	.0670	220487045.01
11C4401880	Capacitor	C163	Telcordia Issue 1	Level I		1.00	0.004535	.0335	220487045.01
1189622150	Capacitor	C175,C178	Telcordia Issue 1	Level I		2.00	0.004535	.0670	220487045.01
11B9747490	Capacitor	C177,C179,C180	Telcordia Issue 1	Level I		3.00	0.004535	.1005	220487045.01
1124418090	Capacitor	C200,C204	Telcordia Issue 1	Level I		2.00	0.004535	.0670	220487045.01
11B2701080	Capacitor	C223,C240,C280	Telcordia Issue 1	Level I		3.00	0.004535	.1005	220487045.01
1124501890	Capacitor	C282	Telcordia Issue 1	Level I		1.00	0.004535	.0335	220487045.01
1122710080	Capacitor	C283,C284	Telcordia Issue 1	Level I		2.00	0.005466	.0808	182961702.19
1300414844	Semiconductor	D1	Telcordia Issue 1	Level I		1.00	0.023881	.1764	41874327.58
1301005440	Semiconductor	D2	Telcordia Issue 1	Level I		1.00	0.023881	.1764	41874327.58
1300283540	Semiconductor	D3	Telcordia Issue 1	Level I		1.00	0.023881	.1764	41874327.58
1300581740	Semiconductor	D4	Telcordia Issue 1	Level I		1.00	0.023881	.1764	41874327.58
1300581940	Semiconductor	D5	Telcordia Issue 1	Level I		1.00	0.079603	.5881	12562298.27
1301005444	Semiconductor	D7,D8	Telcordia Issue 1			2.00	0.007960	.1176	125622982.73
1301005442	Semiconductor	D9	Telcordia Issue 1	Level I		1.00	0.023881	.1764	41874327.58
1301400642	Semiconductor	D10,D11	Telcordia Issue 1	Level I		2.00	0.023881	.3529	41874327.58
1212308054	Inductor	FB1,FB10,FB16,FB17, FB18,FB20,FB21, FB22,FB24,FB31, FB35,FB36,FB39, FB40,FB6	Telcordia Issue 1	Level I		15.00	0.002268	.2513	440974090.03
1212306030	Inductor	FB13,FB3,FB38,FB4	Telcordia Issue 1	Level I		4.00	0.002268	.0670	440974090.03
121230603Z	Inductor	FB23,FB25,FB26, FB27,FB28,FB29, FB30,FB37,FB5,FB7, FB8,FB9	Telcordia Issue 1	Level I		12.00	0.002268	.2010	440974090.03
1059700001	Resistor	FB14,FB15,R260, R375,R625,R641, R642,R669,R688	Telcordia Issue 1	Level I		9.00	0.002268	.1508	440974090.03
12123C0006	Inductor	FB19	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03

AAEON Reliability Prediction Report

Part Number 9697IQ5705-D
Reference Des
Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-AIS-Q574-A10.RPJ
Time 17:13
Failure Rate 13.535684
MTBF 73,879

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1212306033	Inductor	FB32,FB33,FB34	Telcordia Issue 1	Level I		3.00	0.002268	.0503	440974090.03
1752001601	Miscellaneous	FS1,FS2,FS3,FS4, FS5	Telcordia Issue 1	Level I		5.00	0.003000	.1108	333333333.33
1752310000	Miscellaneous	FS6,FS7	Telcordia Issue 1	Level I		2.00	0.003000	.0443	333333333.33
1304101340	Semiconductor	LED1,LED2	Telcordia Issue 1	Level I		2.00	0.004877	.0721	205063180.81
1211102266	Inductor	L1	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
1211000180	Inductor	L2	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
1214309006	Inductor	L13,L14,L22,L23,L3, L4,L5,L6	Telcordia Issue 1	Level I		8.00	0.002268	.1340	440974090.03
1211101570	Inductor	L7	Telcordia Issue 1	Level I		1.00	0.086173	.6366	11604581.32
1211105673	Inductor	L12	Telcordia Issue 1	Level I		1.00	0.086173	.6366	11604581.32
121110100F	Inductor	L15,L17	Telcordia Issue 1	Level I		2.00	0.086173	1.2733	11604581.32
1310390411	Semiconductor	Q10,Q13,Q15,Q16, Q17,Q18,Q20,Q21, Q22,Q26,Q28,Q29,Q3, Q30,Q32,Q33,Q34, Q36,Q4,Q62,Q64,Q70, Q71,Q72,Q73,Q77,Q8, Q85,Q90,Q92,Q93, Q94	Telcordia Issue 1	Level I		32.00	0.023881	5.6458	41874327.58
1315700211	Semiconductor	Q19,Q23,Q25,Q45, Q46,Q49,Q5,Q51,Q59, Q6,Q60,Q7,Q81,Q82, Q83,Q84,Q86	Telcordia Issue 1	Level I		17.00	0.079603	9.9977	12562298.27
1315889612	Semiconductor	Q11	Telcordia Issue 1	Level I		1.00	0.079603	.5881	12562298.27
1315889612	Semiconductor	Q12,Q27,Q31, Q40,Q41,Q42,Q47, Q56,Q57,Q78	Telcordia Issue 1	Level I		10.00	0.079603	5.8810	12562298.27
1315888010	Semiconductor	Q14,Q39,Q43,Q44, Q48,Q58	Telcordia Issue 1	Level I		6.00	0.079603	3.5286	12562298.27
1315R30310	Integrated Circuit	Q24,Q35	Telcordia Issue 1	Level I		2.00	0.059366	.8772	16844654.92
1311390610	Semiconductor	Q50	Telcordia Issue 1	Level I		1.00	0.023881	.1764	41874327.58
1311138610	Semiconductor	Q74,Q75,Q80	Telcordia Issue 1	Level I		3.00	0.023881	.5293	41874327.58
1315230111	Semiconductor	Q76,Q79	Telcordia Issue 1	Level I		2.00	0.000000	.0000	.00
131411171B	Integrated Circuit	Q95	Telcordia Issue 1	Level I		1.00	0.059366	.4386	16844654.92
1540700080	Resistor	RN1,RN2	Telcordia Issue 1	Level I		2.00	0.012492	.1846	80051386.00
1540782280	Resistor	RN3,RN4	Telcordia Issue 1	Level I		2.00	0.006246	.0923	160102772.00
1540710280	Resistor	RP1,RP6,RP7	Telcordia Issue 1	Level I		3.00	0.006246	.1384	160102772.00
1540733085	Resistor	RP2,RP3,RP4,RP5	Telcordia Issue 1	Level I		4.00	0.006246	.1846	160102772.00
1540747285	Resistor	RP8	Telcordia Issue 1	Level I		1.00	0.006246	.0461	160102772.00
1540756081	Resistor	RP9	Telcordia Issue 1	Level I		1.00	0.006246	.0461	160102772.00
106B701032	Resistor	RT1,RT2,RT3,RT5	Telcordia Issue 1	Level I		4.00	0.011379	.3363	87878027.07
106B501031	Resistor	RT4	Telcordia Issue 1	Level I		1.00	0.011379	.0841	87878027.07
1050512124	Resistor	R1	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03

AAEON Reliability Prediction Report

Part Number 9697IQ5705-D
Reference Des
Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

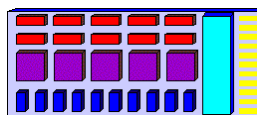


Description
File Name TF-AIS-Q574-A10.RPJ
Time 17:13
Failure Rate 13.535684
MTBF 73,879

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A702239	Resistor	R2,R360,R723	Telcordia Issue 1	Level I		3.00	0.002268	.0503	440974090.03
105A733009	Resistor	R16,R17,R18,R20,R5, R9	Telcordia Issue 1	Level I		6.00	0.002268	.1005	440974090.03
105A500139	Resistor	R149,R238,R245, R417,R418,R420, R421,R422,R423, R427,R428,R429, R498,R6	Telcordia Issue 1	Level I		14.00	0.002268	.2345	440974090.03
105A702209	Resistor	R355,R358,R374,R7, R727	Telcordia Issue 1	Level I		5.00	0.002268	.0838	440974090.03
105A700003	Resistor	R10,R267,R268,R333, R404,R517,R638, R685,R700,R712, R717,R726,R79	Telcordia Issue 1	Level I		13.00	0.002268	.2178	440974090.03
1059500131	Resistor	R11	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A702263	Resistor	R14,R255,R256,R26, R29,R291,R433,R53, R616,R624,R639, R640,R643,R647, R687,R699,R735	Telcordia Issue 1	Level I		17.00	0.002268	.2848	440974090.03
105A708229	Resistor	R100,R106,R109, R110,R113,R118, R134,R15,R153,R160, R164,R172,R249, R252,R253,R254, R280,R284,R286, R347,R349,R478, R499,R500,R503, R504,R506,R522, R530,R613,R655, R702,R757,R758,R88, R90,R97	Telcordia Issue 1	Level I		37.00	0.002268	.6199	440974090.03
105A703329	Resistor	R21,R233,R409,R713	Telcordia Issue 1	Level I		4.00	0.002268	.0670	440974090.03
105A501539	Resistor	R188,R23,R414,R715	Telcordia Issue 1	Level I		4.00	0.002268	.0670	440974090.03
105A710009	Resistor	R166,R170,R25,R283, R50,R514,R646,R673, R742	Telcordia Issue 1	Level I		9.00	0.002268	.1508	440974090.03
105A502039	Resistor	R27,R572,R680,R697	Telcordia Issue 1	Level I		4.00	0.002268	.0670	440974090.03
105A701533	Resistor	R28,R408,R754,R755	Telcordia Issue 1	Level I		4.00	0.002268	.0670	440974090.03
1050506224	Resistor	R30,R415,R716	Telcordia Issue 1	Level I		3.00	0.002268	.0503	440974090.03
105A705129	Resistor	R31,R380,R44,R46, R48,R740	Telcordia Issue 1	Level I		6.00	0.002268	.1005	440974090.03
105A702229	Resistor	R101,R180,R32,R362, R368,R370,R388, R389,R47,R512,R513, R515,R529,R578, R720,R721,R733, R741,R98	Telcordia Issue 1	Level I		19.00	0.002268	.3183	440974090.03
105A701033	Resistor	R33,R411,R52,R752, R753	Telcordia Issue 1	Level I		5.00	0.002268	.0838	440974090.03

AAEON Reliability Prediction Report

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Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



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Time 17:13
Failure Rate 13.535684
MTBF 73,879

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105A502823	Resistor	R39,R59	Telcordia Issue 1	Level I		2.00	0.002268	.0335	440974090.03
105A518213	Resistor	R258,R45	Telcordia Issue 1	Level I		2.00	0.002268	.0335	440974090.03
105A700009	Resistor	R126,R130,R137, R147,R156,R158, R175,R178,R194, R210,R220,R235, R241,R242,R244, R257,R265,R266, R276,R287,R295, R306,R308,R313, R329,R331,R369, R391,R393,R403, R413,R416,R431, R442,R468,R470, R472,R476,R489,	Telcordia Issue 1	Level I		70.00	0.002268	1.1727	440974090.03
105A515423	Resistor	R56	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A700233	Resistor	R57	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A701039	Resistor	R140,R176,R177, R179,R181,R182, R183,R185,R186, R187,R189,R191, R192,R196,R198, R199,R200,R202, R203,R204,R218, R221,R223,R264, R270,R271,R304, R309,R434,R449, R450,R451,R454, R456,R491,R505, R518,R527,R528,	Telcordia Issue 1	Level I		64.00	0.002268	1.0722	440974090.03
105A700139	Resistor	R146,R167,R214, R225,R227,R228, R262,R282,R299, R307,R318,R324, R354,R357,R359, R364,R453,R523, R531,R538,R539, R542,R546,R550, R569,R577,R60,R618, R62,R660,R670,R683, R689,R694,R695, R707,R725,R732, R765,R766	Telcordia Issue 1	Level I		40.00	0.002268	.6701	440974090.03

AAEON Reliability Prediction Report

Part Number 9697IQ5705-D
Reference Des
Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-AIS-Q574-A10.RPJ
Time 17:13
Failure Rate 13.535684
MTBF 73,879

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
105A704739	Resistor	R466,R467,R480,R63	Telcordia Issue 1	Level I		4.00	0.002268	.0670	440974090.03
105A703309	Resistor	R132,R135,R243, R279,R301,R460, R521,R533,R620,R69, R72,R73,R82,R83, R84,R85,R86,R87, R96,R99	Telcordia Issue 1	Level I		20.00	0.002268	.3351	440974090.03
105A505109	Resistor	R117,R474,R487, R586,R78,R80	Telcordia Issue 1	Level I		6.00	0.002268	.1005	440974090.03
1050590964	Resistor	R94	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A510213	Resistor	R95	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A515009	Resistor	R103,R104,R105, R211,R728,R729, R730	Telcordia Issue 1	Level I		7.00	0.002268	.1173	440974090.03
105A701053	Resistor	R107	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A710039	Resistor	R111,R674	Telcordia Issue 1	Level I		2.00	0.002268	.0335	440974090.03
105A704729	Resistor	R115,R120,R123, R162,R171,R224, R232,R356,R377, R382,R396,R435, R619,R652,R653, R654,R690	Telcordia Issue 1	Level I		17.00	0.002268	.2848	440974090.03
105A510009	Resistor	R116	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A705629	Resistor	R119	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A549969	Resistor	R121,R335,R336, R337,R338,R339, R340,R341,R342, R475,R540,R632	Telcordia Issue 1	Level I		12.00	0.002268	.2010	440974090.03
105A513009	Resistor	R124	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A702039	Resistor	R127,R390,R402, R406,R541	Telcordia Issue 1	Level I		5.00	0.002268	.0838	440974090.03
1050524904	Resistor	R128	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
1050703334	Resistor	R131,R459,R461	Telcordia Issue 1	Level I		3.00	0.002268	.0503	440974090.03
105A501039	Resistor	R133,R184,R190, R205,R215,R216, R222,R230,R231, R419,R424,R691	Telcordia Issue 1	Level I		12.00	0.002268	.2010	440974090.03
105A524033	Resistor	R138	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A700239	Resistor	R139	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A512039	Resistor	R142	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A506829	Resistor	R144,R155,R163, R206,R234	Telcordia Issue 1	Level I		5.00	0.002268	.0838	440974090.03
1050522104	Resistor	R145,R152,R159	Telcordia Issue 1	Level I		3.00	0.002268	.0503	440974090.03
1050578714	Resistor	R150	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A516523	Resistor	R151	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03

AAEON Reliability Prediction Report

Part Number 9697IQ5705-D
Reference Des
Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-AIS-Q574-A10.RPJ
Time 17:13
Failure Rate 13.535684
MTBF 73,879

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1050533034	Resistor	R157	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
1050502734	Resistor	R165	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A524919	Resistor	R168,R573	Telcordia Issue 1	Level I		2.00	0.002268	.0335	440974090.03
105A720009	Resistor	R169	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A500333	Resistor	R173,R296	Telcordia Issue 1	Level I		2.00	0.002268	.0335	440974090.03
105A501129	Resistor	R174,R229	Telcordia Issue 1	Level I		2.00	0.002268	.0335	440974090.03
105A503039	Resistor	R209	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A701009	Resistor	R212	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A504733	Resistor	R213	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
1059700101	Resistor	R240,R269,R302, R663,R701	Telcordia Issue 1	Level I		5.00	0.002268	.0838	440974090.03
105A593103	Resistor	R247	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A580613	Resistor	R248	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A524963	Resistor	R250	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A568123	Resistor	R251	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A503033	Resistor	R259	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A513723	Resistor	R261,R672	Telcordia Issue 1	Level I		2.00	0.002268	.0335	440974090.03
1050700334	Resistor	R272,R273,R458	Telcordia Issue 1	Level I		3.00	0.002268	.0503	440974090.03
105A512123	Resistor	R274	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A768009	Resistor	R141,R277,R290, R650,R682,R772	Telcordia Issue 1	Level I		6.00	0.002268	.1005	440974090.03
105A705133	Resistor	R303,R315	Telcordia Issue 1	Level I		2.00	0.002268	.0335	440974090.03
1050563420	Resistor	R311	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A707509	Resistor	R361,R722	Telcordia Issue 1	Level I		2.00	0.002268	.0335	440974090.03
105A747003	Resistor	R379,R744	Telcordia Issue 1	Level I		2.00	0.002268	.0335	440974090.03
105A710003	Resistor	R397	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A747039	Resistor	R426	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A501529	Resistor	R430,R497	Telcordia Issue 1	Level I		2.00	0.002268	.0335	440974090.03
105A531613	Resistor	R436	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
1059702261	Resistor	R439,R469,R667, R678	Telcordia Issue 1	Level I		4.00	0.002268	.0670	440974090.03
105A500133	Resistor	R443	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A510003	Resistor	R444	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A707529	Resistor	R457	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A701503	Resistor	R462	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A701003	Resistor	R488,R516	Telcordia Issue 1	Level I		2.00	0.002268	.0335	440974090.03
1050520004	Resistor	R492	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
1050512104	Resistor	R494	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03

AAEON Reliability Prediction Report

Part Number 9697IQ5705-D
Reference Des
Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-AIS-Q574-A10.RPJ
Time 17:13
Failure Rate 13.535684
MTBF 73,879

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A703909	Resistor	R496,R501,R502, R756	Telcordia Issue 1	Level I		4.00	0.002268	.0670	440974090.03
1050530124	Resistor	R524	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A530133	Resistor	R525	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A553629	Resistor	R548	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A701059	Resistor	R549,R656,R657	Telcordia Issue 1	Level I		3.00	0.002268	.0503	440974090.03
1050700002	Resistor	R554	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A513733	Resistor	R555	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A504333	Resistor	R556	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A710053	Resistor	R582	Telcordia Issue 1	Level I		1.00	0.013606	.1005	73495681.67
1050532464	Resistor	R592	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A537463	Resistor	R617	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A502003	Resistor	R626,R627	Telcordia Issue 1	Level I		2.00	0.002268	.0335	440974090.03
105A575009	Resistor	R630	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A549913	Resistor	R662,R693,R698	Telcordia Issue 1	Level I		3.00	0.002268	.0503	440974090.03
105A505123	Resistor	R686	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A523713	Resistor	R692	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A715009	Resistor	R703,R704	Telcordia Issue 1	Level I		2.00	0.002268	.0335	440974090.03
105A507509	Resistor	R718,R719,R736	Telcordia Issue 1	Level I		3.00	0.002268	.0503	440974090.03
105A503423	Resistor	R747	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
105A505629	Resistor	R769	Telcordia Issue 1	Level I		1.00	0.002268	.0168	440974090.03
1129610051	Capacitor	TC1,TC10,TC12,TC2, TC21,TC22,TC23, TC25,TC26,TC27, TC28,TC29,TC30, TC31,TC32,TC33, TC34,TC35,TC36, TC37,TC38,TC39,TC4, TC40,TC41,TC42, TC43,TC44,TC45, TC49,TC5,TC50,TC51, TC52,TC53,TC54, TC55,TC56,TC57, TC58,TC59,TC6,T	Telcordia Issue 1	Level I		54.00	0.004535	1.8094	220487045.01
1122710091	Capacitor	TC11,TC13,TC14, TC15,TC16,TC17, TC18,TC19,TC20, TC24,TC7,TC8	Telcordia Issue 1	Level I		12.00	0.004535	.4021	220487045.01
14S4654500	Integrated Circuit	U1	Telcordia Issue 1	Level I		1.00	0.059366	.4386	16844654.92
14S2750100	Integrated Circuit	U2	Telcordia Issue 1	Level I		1.00	0.059366	.4386	16844654.92
1315344311	Integrated Circuit	U3	Telcordia Issue 1	Level I		1.00	0.059366	.4386	16844654.92

AAEON Reliability Prediction Report

Part Number 9697IQ5705-D
Reference Des
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Environment GF, GU - Ground Fixed, Uncontrolled
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Description
File Name TF-AIS-Q574-A10.RPJ
Time 17:13
Failure Rate 13.535684
MTBF 73,879

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S4195710	Integrated Circuit	U36	Telcordia Issue 1	Level I		1.00	0.059366	.4386	16844654.92
14S4195710	Integrated Circuit	U4	Telcordia Issue 1	Level I		1.00	0.059366	.4386	16844654.92
14S5A01402	Integrated Circuit	U6	Telcordia Issue 1	Level I		1.00	0.026183	.1934	38193355.79
14S2634100	Integrated Circuit	U8	Telcordia Issue 1	Level I		1.00	0.026183	.1934	38193355.79
14S3950500	Integrated Circuit	U9	Telcordia Issue 1	Level I		1.00	0.026183	.1934	38193355.79
14S1035801	Integrated Circuit	U10	Telcordia Issue 1	Level I		1.00	0.059366	.4386	16844654.92
1651611560	Connection	U11	Telcordia Issue 1	Level I		1.00	0.001138	.0084	878780270.71
14S3633400	Integrated Circuit	U12	Telcordia Issue 1	Level I	19.70	1.00	0.229413	1.6949	4358944.86
14S4095100	Integrated Circuit	U13	Telcordia Issue 1	Level I	20.00	1.00	0.078796	.5821	12690951.29
14S62Q5700	Integrated Circuit	U14	Telcordia Issue 1	Level I		1.00	0.022943	.1695	43586356.53
14S4871800	Integrated Circuit	U15	Telcordia Issue 1	Level I	15.90	1.00	0.063589	.4698	15725943.75
14S4631400	Integrated Circuit	U16	Telcordia Issue 1	Level I		1.00	0.026183	.1934	38193355.79
14S4257800	Integrated Circuit	U17	Telcordia Issue 1	Level I		1.00	0.026183	.1934	38193355.79
14S4825740	Integrated Circuit	U18	Telcordia Issue 1	Level I	19.60	1.00	0.077184	.5702	12956076.40
14S3088801	Integrated Circuit	U19	Telcordia Issue 1	Level I	21.70	1.00	0.260720	1.9262	3835525.12
14S5812502	Integrated Circuit	U21	Telcordia Issue 1	Level I		1.00	0.026183	.1934	38193355.79
14S5A01400	Integrated Circuit	U22, U45, U46	Telcordia Issue 1	Level I		3.00	0.059366	1.3158	16844654.92
14S5A23200	Integrated Circuit	U23	Telcordia Issue 1	Level I		1.00	0.026183	.1934	38193355.79
14S4048502	Integrated Circuit	U24	Telcordia Issue 1	Level I		1.00	0.059366	.4386	16844654.92
14S4048502	Integrated Circuit	U44	Telcordia Issue 1	Level I		1.00	0.059366	.4386	16844654.92
14S2200900	Integrated Circuit	U25	Telcordia Issue 1	Level I		1.00	0.059366	.4386	16844654.92
14S3052400	Integrated Circuit	U27	Telcordia Issue 1	Level I		1.00	0.059366	.4386	16844654.92
14S3052400	Integrated Circuit	U29	Telcordia Issue 1	Level I		1.00	0.059366	.4386	16844654.92
14S9144200	Integrated Circuit	U28	Telcordia Issue 1	Level I		1.00	0.026183	.1934	38193355.79
1314917314	Integrated Circuit	U32	Telcordia Issue 1	Level I		1.00	0.059366	.4386	16844654.92
14S5912300	Integrated Circuit	U33	Telcordia Issue 1	Level I		1.00	0.026183	.1934	38193355.79
14S5A24540	Integrated Circuit	U34	Telcordia Issue 1	Level I		1.00	0.059366	.4386	16844654.92
1314108412	Integrated Circuit	U37	Telcordia Issue 1	Level I		1.00	0.059366	.4386	16844654.92
1314895510	Integrated Circuit	U38	Telcordia Issue 1	Level I		1.00	0.059366	.4386	16844654.92
14S9662200	Integrated Circuit	U39	Telcordia Issue 1	Level I		1.00	0.059366	.4386	16844654.92
14S9661200	Integrated Circuit	U40	Telcordia Issue 1	Level I		1.00	0.059366	.4386	16844654.92
14S9661200	Integrated Circuit	U43	Telcordia Issue 1	Level I		1.00	0.059366	.4386	16844654.92
14S5A12506	Integrated Circuit	U41	Telcordia Issue 1	Level I		1.00	0.026183	.1934	38193355.79
14S4021301	Integrated Circuit	U42	Telcordia Issue 1	Level I		1.00	0.059366	.4386	16844654.92
123131435F	Miscellaneous	Y1	Telcordia Issue 1	Level I		1.00	0.150000	1.1082	6666666.67
123132505C	Miscellaneous	Y2, Y3, Y4	Telcordia Issue 1	Level I		3.00	0.150000	3.3245	6666666.67

AAEON Reliability Prediction Report

Part Number 9697IQ5705-D
Reference Des
Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-AIS-Q574-A10.RPJ
Time 17:13
Failure Rate 13.535684
MTBF 73,879

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1231332721	Miscellaneous	Y5	Telcordia Issue 1	Level I		1.00	0.150000	1.1082	6666666.67
14S6308002	Integrated Circuit	U20	Telcordia Issue 1	Level I	18.70	1.00	0.129993	.9604	7692709.23
11E9622050	Capacitor	C108,C255	Telcordia Issue 1	Level I		2.00	0.004535	.0670	220487045.01
1655424020	Connection	ATX1	Telcordia Issue 1	Level I		1.00	0.013655	.1009	73231689.23
1655404020	Connection	ATX2	Telcordia Issue 1	Level I		1.00	0.002276	.0168	439390135.35
1652517205	Connection	AUDIO1	Telcordia Issue 1	Level I		1.00	0.001138	.0084	878780270.71
1750220323	Connection	BAT1	Telcordia Issue 1	Level I		1.00	0.001138	.0084	878780270.71
175011901H	Miscellaneous	BAT1	Telcordia Issue 1	Level I		1.00	0.900000	6.6491	1111111.11
1189656193	Capacitor	EC1,EC10,EC11,EC12, EC13,EC14,EC15, EC17,EC2,EC21,EC22, EC23,EC24,EC3,EC4, EC5	Telcordia Issue 1	Level I		16.00	0.004535	.5361	220487045.01
175910000B	Miscellaneous	BZ1	Telcordia Issue 1	Level I		1.00	0.150000	1.1082	6666666.67
1189656194	Capacitor	EC6,EC8	Telcordia Issue 1	Level I		2.00	0.004535	.0670	220487045.01
1654445301	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.025604	.1892	39056900.92
165440910B	Connection	COM1	Telcordia Issue 1	Level I		1.00	0.022759	.1681	43939013.54
1655004014	Connection	CPU_FAN1,SYS_FAN1, SYS_FAN2	Telcordia Issue 1	Level I		3.00	0.001138	.0252	878780270.71
16515C0496	Connection	DDRIII1,DDRIII2	Telcordia Issue 1	Level I		2.00	0.136553	2.0177	7323168.92
1653205203	Connection	COM2	Telcordia Issue 1	Level I		1.00	0.005690	.0420	175756054.14
1653005200	Connection	FP1	Telcordia Issue 1	Level I		1.00	0.022759	.1681	43939013.54
1653003101	Connection	JP1,JP2,JP3,JP4	Telcordia Issue 1	Level I		4.00	0.001707	.0504	585853513.81
1654612307	Connection	KBMS1	Telcordia Issue 1	Level I		1.00	0.001138	.0084	878780270.71
1211103372	Inductor	L10,L8,L9	Telcordia Issue 1	Level I		3.00	0.086173	1.9099	11604581.32
1211105674	Inductor	L11	Telcordia Issue 1	Level I		1.00	0.086173	.6366	11604581.32
1654907002	Connection	SATA1,SATA2	Telcordia Issue 1	Level I		2.00	0.003983	.0588	251080077.35
1653005201	Connection	USB_F1,USB_F2	Telcordia Issue 1	Level I		2.00	0.005690	.0841	175756054.14
1652522207	Connection	USB_LAN1,USB_LAN2	Telcordia Issue 1	Level I		2.00	0.022759	.3363	43939013.54
1189682196	Capacitor	EC16,EC18,EC19, EC20,EC7	Telcordia Issue 1	Level I		5.00	0.004535	.1675	220487045.01
1181647110	Capacitor	EC9	Telcordia Issue 1	Level I		1.00	0.004535	.0335	220487045.01
1653205203	Connection		Telcordia Issue 1	Level I		1.00	0.001138	.0084	878780270.71
1654907002	Connection		Telcordia Issue 1	Level I		1.00	0.028449	.2102	35151210.83
1181627191	Capacitor	EC25,EC26,EC27, EC28	Telcordia Issue 1	Level I		4.00	0.004535	.1340	220487045.01