

# AIS-Q572

## Reliability Prediction Report (MTBF)

Summary	Failure Rate: 13.824397 ppm MTBF: 72,336 Hours
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Issue date	Approval	Test Engineer
2011/09/09	Jansin Lee	Matthew Chi

# Reliability Prediction (MTBF)

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**I . Model Name:** TF-AIS-Q572-A10

**II . Prediction Date:** September. 09, 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-Q572-A10:

- Failure Rate: 13.824397ppm
- MTBF: 72,336Hours

Below components value were provided by the suppliers:

- (TF)Fan.12V.60\*60\*20mm.Cable L=200mm.SUNON.PMD1206PKVX-A.F.GN.For AIS-Q572  
MTBF: 329,447 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-Q572-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-Q572-A10.RPJ  
**Time** 16:25  
**Failure Rate** 13.824397  
**MTBF** 72,336

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
System	TF-AIS-Q572-A10	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	13.82	72335.88
Riser Card	9697R22X05-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	.40	2491906.42
IMBI-Q57 A2.0	9697IO5705-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	13.42	74498.45





**AAEON Reliability Prediction Report**

**Part Number** 9697IO5705-D  
**Reference Des**  
**Date** 08. 30, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.00

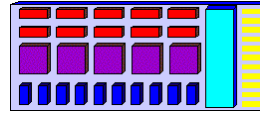


**Description**  
**File Name** TF-AIS-Q572-A10.RPJ  
**Time** 16:25  
**Failure Rate** 13.423098  
**MTBF** 74,498

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	.8785	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	.5068	220487045.01
1124522880	Capacitor	C18	Telcordia Issue 1	Level I		1.00	0.004535	.0338	220487045.01
1124447180	Capacitor	C19,C4	Telcordia Issue 1	Level I		2.00	0.004535	.0676	220487045.01
1124410191	Capacitor	C115,C116,C117, C265,C266,C267,C28, C48,C91	Telcordia Issue 1	Level I		9.00	0.004535	.3041	220487045.01
1129722680	Capacitor	C39,C93	Telcordia Issue 1	Level I		2.00	0.004535	.0676	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	.5406	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	1.2164	220487045.01
1124468090	Capacitor	C183,C188,C79	Telcordia Issue 1	Level I		3.00	0.004535	.1014	220487045.01
1129722091	Capacitor	C101,C88	Telcordia Issue 1	Level I		2.00	0.004535	.0676	220487045.01
1124510280	Capacitor	C202,C89	Telcordia Issue 1	Level I		2.00	0.004535	.0676	220487045.01
1124568180	Capacitor	C90	Telcordia Issue 1	Level I		1.00	0.004535	.0338	220487045.01
11C4582190	Capacitor	C97	Telcordia Issue 1	Level I		1.00	0.004535	.0338	220487045.01
1124522190	Capacitor	C98,C99	Telcordia Issue 1	Level I		2.00	0.004535	.0676	220487045.01
1124501780	Capacitor	C100,C208,C234, C288	Telcordia Issue 1	Level I		4.00	0.004535	.1352	220487045.01
1124556180	Capacitor	C102	Telcordia Issue 1	Level I		1.00	0.004535	.0338	220487045.01
1124547190	Capacitor	C103,C104,C110, C245,C246,C247, C248,C249	Telcordia Issue 1	Level I		8.00	0.004535	.2703	220487045.01
1121501050	Capacitor	C107,C121	Telcordia Issue 1	Level I		2.00	0.004535	.0676	220487045.01

### AAEON Reliability Prediction Report

**Part Number** 9697IO5705-D  
**Reference Des**  
**Date** 08. 30, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.00



**Description**  
**File Name** TF-AIS-Q572-A10.RPJ  
**Time** 16:25  
**Failure Rate** 13.423098  
**MTBF** 74,498

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	.1352	220487045.01
1189633193	Capacitor	C123,C126,C192, C258,C272	Telcordia Issue 1	Level I		5.00	0.004535	.1689	220487045.01
1124433190	Capacitor	C125,C127	Telcordia Issue 1	Level I		2.00	0.004535	.0676	220487045.01
118961018A	Capacitor	C128,C129,C134, C171,C195,C277, C278	Telcordia Issue 1	Level I		7.00	0.004535	.2365	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	.4730	220487045.01
1124515880	Capacitor	C156	Telcordia Issue 1	Level I		1.00	0.004535	.0338	220487045.01
1124433090	Capacitor	C162,C166	Telcordia Issue 1	Level I		2.00	0.004535	.0676	220487045.01
11C4401880	Capacitor	C163	Telcordia Issue 1	Level I		1.00	0.004535	.0338	220487045.01
1189622150	Capacitor	C175,C178	Telcordia Issue 1	Level I		2.00	0.004535	.0676	220487045.01
11B9747490	Capacitor	C177,C179,C180	Telcordia Issue 1	Level I		3.00	0.004535	.1014	220487045.01
1124418090	Capacitor	C200,C204	Telcordia Issue 1	Level I		2.00	0.004535	.0676	220487045.01
11B2701080	Capacitor	C223,C240,C280	Telcordia Issue 1	Level I		3.00	0.004535	.1014	220487045.01
1124501890	Capacitor	C282	Telcordia Issue 1	Level I		1.00	0.004535	.0338	220487045.01
1122710080	Capacitor	C283,C284	Telcordia Issue 1	Level I		2.00	0.005466	.0814	182961702.19
1300414844	Semiconductor	D1	Telcordia Issue 1	Level I		1.00	0.023881	.1779	41874327.58
1301005440	Semiconductor	D2	Telcordia Issue 1	Level I		1.00	0.023881	.1779	41874327.58
1300283540	Semiconductor	D3	Telcordia Issue 1	Level I		1.00	0.023881	.1779	41874327.58
1300581740	Semiconductor	D4	Telcordia Issue 1	Level I		1.00	0.023881	.1779	41874327.58
1300581940	Semiconductor	D5	Telcordia Issue 1	Level I		1.00	0.079603	.5930	12562298.27
1301005444	Semiconductor	D7,D8	Telcordia Issue 1			2.00	0.007960	.1186	125622982.73
1301005442	Semiconductor	D9	Telcordia Issue 1	Level I		1.00	0.023881	.1779	41874327.58
1301400642	Semiconductor	D10,D11	Telcordia Issue 1	Level I		2.00	0.023881	.3558	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	.2534	440974090.03
1212306030	Inductor	FB13,FB3,FB38,FB4	Telcordia Issue 1	Level I		4.00	0.002268	.0676	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	.2027	440974090.03
1059700001	Resistor	FB14,FB15,R260, R375,R625,R641, R642,R669,R688	Telcordia Issue 1	Level I		9.00	0.002268	.1520	440974090.03
12123C0006	Inductor	FB19	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03



**AAEON Reliability Prediction Report**

**Part Number** 9697IO5705-D  
**Reference Des**  
**Date** 08. 30, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.00



**Description**  
**File Name** TF-AIS-Q572-A10.RPJ  
**Time** 16:25  
**Failure Rate** 13.423098  
**MTBF** 74,498

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	.0507	440974090.03
1752001601	Miscellaneous	FS1,FS2,FS3,FS4, FS5	Telcordia Issue 1	Level I		5.00	0.003000	.1117	333333333.33
1752310000	Miscellaneous	FS6,FS7	Telcordia Issue 1	Level I		2.00	0.003000	.0447	333333333.33
1304101340	Semiconductor	LED1,LED2	Telcordia Issue 1	Level I		2.00	0.004877	.0727	205063180.81
1211102266	Inductor	L1	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
1211000180	Inductor	L2	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
1214309006	Inductor	L13,L14,L22,L23,L3, L4,L5,L6	Telcordia Issue 1	Level I		8.00	0.002268	.1352	440974090.03
1211101570	Inductor	L7	Telcordia Issue 1	Level I		1.00	0.086173	.6420	11604581.32
1211105673	Inductor	L12	Telcordia Issue 1	Level I		1.00	0.086173	.6420	11604581.32
121110100F	Inductor	L15,L17	Telcordia Issue 1	Level I		2.00	0.086173	1.2839	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	5.6931	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	10.0815	12562298.27
1315889612	Semiconductor	Q11	Telcordia Issue 1	Level I		1.00	0.079603	.5930	12562298.27
1315889612	Semiconductor	Q12,Q27,Q31, Q40,Q41,Q42,Q47, Q56,Q57,Q78	Telcordia Issue 1	Level I		10.00	0.079603	5.9303	12562298.27
1315888010	Semiconductor	Q14,Q39,Q43,Q44, Q48,Q58	Telcordia Issue 1	Level I		6.00	0.079603	3.5582	12562298.27
1315R30310	Integrated Circuit	Q24,Q35	Telcordia Issue 1	Level I		2.00	0.059366	.8845	16844654.92
1311390610	Semiconductor	Q50	Telcordia Issue 1	Level I		1.00	0.023881	.1779	41874327.58
1311138610	Semiconductor	Q74,Q75,Q80	Telcordia Issue 1	Level I		3.00	0.023881	.5337	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	.4423	16844654.92
1540700080	Resistor	RN1,RN2	Telcordia Issue 1	Level I		2.00	0.012492	.1861	80051386.00
1540782280	Resistor	RN3,RN4	Telcordia Issue 1	Level I		2.00	0.006246	.0931	160102772.00
1540710280	Resistor	RP1,RP6,RP7	Telcordia Issue 1	Level I		3.00	0.006246	.1396	160102772.00
1540733085	Resistor	RP2,RP3,RP4,RP5	Telcordia Issue 1	Level I		4.00	0.006246	.1861	160102772.00
1540747285	Resistor	RP8	Telcordia Issue 1	Level I		1.00	0.006246	.0465	160102772.00
1540756081	Resistor	RP9	Telcordia Issue 1	Level I		1.00	0.006246	.0465	160102772.00
106B701032	Resistor	RT1,RT2,RT3,RT5	Telcordia Issue 1	Level I		4.00	0.011379	.3391	87878027.07
106B501031	Resistor	RT4	Telcordia Issue 1	Level I		1.00	0.011379	.0848	87878027.07
1050512124	Resistor	R1	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03

**AAEON Reliability Prediction Report**

**Part Number** 9697IO5705-D  
**Reference Des**  
**Date** 08. 30, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.00

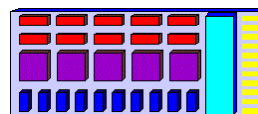


**Description**  
**File Name** TF-AIS-Q572-A10.RPJ  
**Time** 16:25  
**Failure Rate** 13.423098  
**MTBF** 74,498

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	.0507	440974090.03
105A733009	Resistor	R16,R17,R18,R20,R5, R9	Telcordia Issue 1	Level I		6.00	0.002268	.1014	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	.2365	440974090.03
105A702209	Resistor	R355,R358,R374,R7, R727	Telcordia Issue 1	Level I		5.00	0.002268	.0845	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	.2196	440974090.03
1059500131	Resistor	R11	Telcordia Issue 1	Level I		1.00	0.002268	.0169	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	.2872	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	.6251	440974090.03
105A703329	Resistor	R21,R233,R409,R713	Telcordia Issue 1	Level I		4.00	0.002268	.0676	440974090.03
105A501539	Resistor	R188,R23,R414,R715	Telcordia Issue 1	Level I		4.00	0.002268	.0676	440974090.03
105A710009	Resistor	R166,R170,R25,R283, R50,R514,R646,R673, R742	Telcordia Issue 1	Level I		9.00	0.002268	.1520	440974090.03
105A502039	Resistor	R27,R572,R680,R697	Telcordia Issue 1	Level I		4.00	0.002268	.0676	440974090.03
105A701533	Resistor	R28,R408,R754,R755	Telcordia Issue 1	Level I		4.00	0.002268	.0676	440974090.03
1050506224	Resistor	R30,R415,R716	Telcordia Issue 1	Level I		3.00	0.002268	.0507	440974090.03
105A705129	Resistor	R31,R380,R44,R46, R48,R740	Telcordia Issue 1	Level I		6.00	0.002268	.1014	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	.3210	440974090.03
105A701033	Resistor	R33,R411,R52,R752, R753	Telcordia Issue 1	Level I		5.00	0.002268	.0845	440974090.03

### AAEON Reliability Prediction Report

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**Temp. (°C)** 25.00



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**Failure Rate** 13.423098  
**MTBF** 74,498

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A502823	Resistor	R39,R59	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
105A518213	Resistor	R258,R45	Telcordia Issue 1	Level I		2.00	0.002268	.0338	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	1.1826	440974090.03
105A515423	Resistor	R56	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A700233	Resistor	R57	Telcordia Issue 1	Level I		1.00	0.002268	.0169	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	1.0812	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	.6758	440974090.03

**AAEON Reliability Prediction Report**

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**Date** 08. 30, 2011  
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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	.0676	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	.3379	440974090.03
105A505109	Resistor	R117,R474,R487, R586,R78,R80	Telcordia Issue 1	Level I		6.00	0.002268	.1014	440974090.03
1050590964	Resistor	R94	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A510213	Resistor	R95	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A515009	Resistor	R103,R104,R105, R211,R728,R729, R730	Telcordia Issue 1	Level I		7.00	0.002268	.1183	440974090.03
105A701053	Resistor	R107	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A710039	Resistor	R111,R674	Telcordia Issue 1	Level I		2.00	0.002268	.0338	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	.2872	440974090.03
105A510009	Resistor	R116	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A705629	Resistor	R119	Telcordia Issue 1	Level I		1.00	0.002268	.0169	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	.2027	440974090.03
105A513009	Resistor	R124	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A702039	Resistor	R127,R390,R402, R406,R541	Telcordia Issue 1	Level I		5.00	0.002268	.0845	440974090.03
1050524904	Resistor	R128	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
1050703334	Resistor	R131,R459,R461	Telcordia Issue 1	Level I		3.00	0.002268	.0507	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	.2027	440974090.03
105A524033	Resistor	R138	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A700239	Resistor	R139	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A512039	Resistor	R142	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A506829	Resistor	R144,R155,R163, R206,R234	Telcordia Issue 1	Level I		5.00	0.002268	.0845	440974090.03
1050522104	Resistor	R145,R152,R159	Telcordia Issue 1	Level I		3.00	0.002268	.0507	440974090.03
1050578714	Resistor	R150	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A516523	Resistor	R151	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03

### AAEON Reliability Prediction Report

**Part Number** 9697IO5705-D  
**Reference Des**  
**Date** 08. 30, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.00



**Description**  
**File Name** TF-AIS-Q572-A10.RPJ  
**Time** 16:25  
**Failure Rate** 13.423098  
**MTBF** 74,498

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	.0169	440974090.03
1050502734	Resistor	R165	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A524919	Resistor	R168,R573	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
105A720009	Resistor	R169	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A500333	Resistor	R173,R296	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
105A501129	Resistor	R174,R229	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
105A503039	Resistor	R209	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A701009	Resistor	R212	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A504733	Resistor	R213	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
1059700101	Resistor	R240,R269,R302, R663,R701	Telcordia Issue 1	Level I		5.00	0.002268	.0845	440974090.03
105A593103	Resistor	R247	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A580613	Resistor	R248	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A524963	Resistor	R250	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A568123	Resistor	R251	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A503033	Resistor	R259	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A513723	Resistor	R261,R672	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
1050700334	Resistor	R272,R273,R458	Telcordia Issue 1	Level I		3.00	0.002268	.0507	440974090.03
105A512123	Resistor	R274	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A768009	Resistor	R141,R277,R290, R650,R682,R772	Telcordia Issue 1	Level I		6.00	0.002268	.1014	440974090.03
105A705133	Resistor	R303,R315	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
1050563420	Resistor	R311	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A707509	Resistor	R361,R722	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
105A747003	Resistor	R379,R744	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
105A710003	Resistor	R397	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A747039	Resistor	R426	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A501529	Resistor	R430,R497	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
105A531613	Resistor	R436	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
1059702261	Resistor	R439,R469,R667, R678	Telcordia Issue 1	Level I		4.00	0.002268	.0676	440974090.03
105A500133	Resistor	R443	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A510003	Resistor	R444	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A707529	Resistor	R457	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A701503	Resistor	R462	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A701003	Resistor	R488,R516	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
1050520004	Resistor	R492	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
1050512104	Resistor	R494	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03

### AAEON Reliability Prediction Report

**Part Number** 9697IO5705-D  
**Reference Des**  
**Date** 08. 30, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.00



**Description**  
**File Name** TF-AIS-Q572-A10.RPJ  
**Time** 16:25  
**Failure Rate** 13.423098  
**MTBF** 74,498

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	.0676	440974090.03
1050530124	Resistor	R524	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A530133	Resistor	R525	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A553629	Resistor	R548	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A701059	Resistor	R549,R656,R657	Telcordia Issue 1	Level I		3.00	0.002268	.0507	440974090.03
1050700002	Resistor	R554	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A513733	Resistor	R555	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A504333	Resistor	R556	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A710053	Resistor	R582	Telcordia Issue 1	Level I		1.00	0.013606	.1014	73495681.67
1050532464	Resistor	R592	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A537463	Resistor	R617	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A502003	Resistor	R626,R627	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
105A575009	Resistor	R630	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A549913	Resistor	R662,R693,R698	Telcordia Issue 1	Level I		3.00	0.002268	.0507	440974090.03
105A505123	Resistor	R686	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A523713	Resistor	R692	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A715009	Resistor	R703,R704	Telcordia Issue 1	Level I		2.00	0.002268	.0338	440974090.03
105A507509	Resistor	R718,R719,R736	Telcordia Issue 1	Level I		3.00	0.002268	.0507	440974090.03
105A503423	Resistor	R747	Telcordia Issue 1	Level I		1.00	0.002268	.0169	440974090.03
105A505629	Resistor	R769	Telcordia Issue 1	Level I		1.00	0.002268	.0169	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	1.8246	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	.4055	220487045.01
14S4654500	Integrated Circuit	U1	Telcordia Issue 1	Level I		1.00	0.059366	.4423	16844654.92
14S2750100	Integrated Circuit	U2	Telcordia Issue 1	Level I		1.00	0.059366	.4423	16844654.92
1315344311	Integrated Circuit	U3	Telcordia Issue 1	Level I		1.00	0.059366	.4423	16844654.92

**AAEON Reliability Prediction Report**

**Part Number** 9697IO5705-D  
**Reference Des**  
**Date** 08. 30, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.00



**Description**  
**File Name** TF-AIS-Q572-A10.RPJ  
**Time** 16:25  
**Failure Rate** 13.423098  
**MTBF** 74,498

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	.4423	16844654.92
14S4195710	Integrated Circuit	U4	Telcordia Issue 1	Level I		1.00	0.059366	.4423	16844654.92
14S5A01402	Integrated Circuit	U6	Telcordia Issue 1	Level I		1.00	0.026183	.1951	38193355.79
14S2634100	Integrated Circuit	U8	Telcordia Issue 1	Level I		1.00	0.026183	.1951	38193355.79
14S3950500	Integrated Circuit	U9	Telcordia Issue 1	Level I		1.00	0.026183	.1951	38193355.79
14S1035801	Integrated Circuit	U10	Telcordia Issue 1	Level I		1.00	0.059366	.4423	16844654.92
1651611560	Connection	U11	Telcordia Issue 1	Level I		1.00	0.001138	.0085	878780270.71
14S3633400	Integrated Circuit	U12	Telcordia Issue 1	Level I	15.70	1.00	0.176759	1.3168	5657436.29
14S4095100	Integrated Circuit	U13	Telcordia Issue 1	Level I	20.50	1.00	0.080853	.6023	12368065.68
14S62Q5700	Integrated Circuit	U14	Telcordia Issue 1	Level I		1.00	0.022943	.1709	43586356.53
14S4871800	Integrated Circuit	U15	Telcordia Issue 1	Level I	14.20	1.00	0.058084	.4327	17216539.32
14S4631400	Integrated Circuit	U16	Telcordia Issue 1	Level I		1.00	0.026183	.1951	38193355.79
14S4257800	Integrated Circuit	U17	Telcordia Issue 1	Level I		1.00	0.026183	.1951	38193355.79
14S4825740	Integrated Circuit	U18	Telcordia Issue 1	Level I	15.70	1.00	0.062919	.4687	15893573.94
14S3088801	Integrated Circuit	U19	Telcordia Issue 1	Level I	21.50	1.00	0.257425	1.9178	3884625.96
14S5812502	Integrated Circuit	U21	Telcordia Issue 1	Level I		1.00	0.026183	.1951	38193355.79
14S5A01400	Integrated Circuit	U22,U45,U46	Telcordia Issue 1	Level I		3.00	0.059366	1.3268	16844654.92
14S5A23200	Integrated Circuit	U23	Telcordia Issue 1	Level I		1.00	0.026183	.1951	38193355.79
14S4048502	Integrated Circuit	U24	Telcordia Issue 1	Level I		1.00	0.059366	.4423	16844654.92
14S4048502	Integrated Circuit	U44	Telcordia Issue 1	Level I		1.00	0.059366	.4423	16844654.92
14S2200900	Integrated Circuit	U25	Telcordia Issue 1	Level I		1.00	0.059366	.4423	16844654.92
14S3052400	Integrated Circuit	U27	Telcordia Issue 1	Level I		1.00	0.059366	.4423	16844654.92
14S3052400	Integrated Circuit	U29	Telcordia Issue 1	Level I		1.00	0.059366	.4423	16844654.92
14S9144200	Integrated Circuit	U28	Telcordia Issue 1	Level I		1.00	0.026183	.1951	38193355.79
1314917314	Integrated Circuit	U32	Telcordia Issue 1	Level I		1.00	0.059366	.4423	16844654.92
14S5912300	Integrated Circuit	U33	Telcordia Issue 1	Level I		1.00	0.026183	.1951	38193355.79
14S5A24540	Integrated Circuit	U34	Telcordia Issue 1	Level I		1.00	0.059366	.4423	16844654.92
1314108412	Integrated Circuit	U37	Telcordia Issue 1	Level I		1.00	0.059366	.4423	16844654.92
1314895510	Integrated Circuit	U38	Telcordia Issue 1	Level I		1.00	0.059366	.4423	16844654.92
14S9662200	Integrated Circuit	U39	Telcordia Issue 1	Level I		1.00	0.059366	.4423	16844654.92
14S9661200	Integrated Circuit	U40	Telcordia Issue 1	Level I		1.00	0.059366	.4423	16844654.92
14S9661200	Integrated Circuit	U43	Telcordia Issue 1	Level I		1.00	0.059366	.4423	16844654.92
14S5A12506	Integrated Circuit	U41	Telcordia Issue 1	Level I		1.00	0.026183	.1951	38193355.79
14S4021301	Integrated Circuit	U42	Telcordia Issue 1	Level I		1.00	0.059366	.4423	16844654.92
123131435F	Miscellaneous	Y1	Telcordia Issue 1	Level I		1.00	0.150000	1.1175	6666666.67
123132505C	Miscellaneous	Y2,Y3,Y4	Telcordia Issue 1	Level I		3.00	0.150000	3.3524	6666666.67

