

# AEC-6924

## Reliability Prediction Report (MTBF)

Summary	Failure Rate: 32.204168 ppm MTBF: 31,052 Hours
---------	---

Issue date	Approval	Test Engineer
2011/07/14	Jansin Lee	Clement Chien

# Reliability Prediction (MTBF)

---

**I . Model Name:** TF-AEC-6924-A1-1010

**II . Prediction Date:** July. 14, 2011

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

**IV . Predicted by:** Clement Chien

**V . Equipment:** Relex Ver.7.3 Visual Reliability Software

## **VI. Simulation Environment:**

- Temperature: 25.1 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-AEC-6924-A1-1010:

- Failure Rate: 32.204168 ppm

- MTBF: 31,052 Hours

### AAEON Reliability Prediction Report

**Part Number** System  
**Reference Des**  
**Date** 07. 15, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description** Top-level assembly  
**File Name** AEC-6924.RPJ  
**Time** 15:05  
**Failure Rate** 32.204168  
**MTBF** 31,052

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
AEC-6924	System	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	32.20	31051.88
COM-45GS.Rev.A1.0	969745GS0E-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	9.69	103150.14
I/O Board	DTXP692400-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	22.01	45441.13
PER-R19X	9697R19X00-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	.20	5107346.37

### AAEON Reliability Prediction Report

**Part Number** System  
**Reference Des**  
**Date** 07. 15, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description** Top-level assembly  
**File Name** AEC-6924.RPJ  
**Time** 15:05  
**Failure Rate** 32.204168  
**MTBF** 31,052

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14D6C02G20	Integrated Circuit		Telcordia Issue 1	Level I	34.40	1.00	0.307271	100.0000	3254461.14



### AAEON Reliability Prediction Report

**Part Number** 969745GS0E-D  
**Reference Des**  
**Date** 07. 15, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** AEC-6924.RPJ  
**Time** 15:05  
**Failure Rate** 9.694606  
**MTBF** 103,150

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1129701790	Capacitor	C132,C138,C139, C143,C150,C159,C18, C181,C212,C341,C39, C40,C416,C457,C484, C485,C486,C487, C490,C491,C494, C495,C496,C497, C498,C499,C512, C513,C514,C515,C56, C90,C91	Telcordia Issue 1	Level I		33.00	0.004544	1.5469	220055560.52
11E1522680	Capacitor	C126,C127,C128, C129,C140,C155, C180,C185,C244, C249,C28,C29,C30, C31,C32,C33,C36, C37,C458,C501,C66	Telcordia Issue 1	Level I		21.00	0.004544	.9844	220055560.52
1129610080	Capacitor	C111,C112,C152, C153,C154,C177, C179,C222,C223, C224,C225,C226, C227,C238,C239, C240,C241,C242, C243,C261,C262, C267,C272,C281, C290,C296,C303, C306,C307,C314, C323,C324,C325, C326,C327,C328, C329,C34,C349,C	Telcordia Issue 1	Level I		58.00	0.004544	2.7187	220055560.52
1129622050	Capacitor	C131,C194,C220, C221,C230,C245, C246,C254,C255, C271,C282,C297,C38, C42,C60	Telcordia Issue 1	Level I		15.00	0.004544	.7031	220055560.52
11E9547490	Capacitor	C229,C291,C62,C67, C70,C72	Telcordia Issue 1	Level I		6.00	0.004544	.2812	220055560.52
11E9647680	Capacitor	C157,C228,C233, C265,C340,C385, C402,C68,C69	Telcordia Issue 1	Level I		9.00	0.004544	.4219	220055560.52
1124522280	Capacitor	C73	Telcordia Issue 1	Level I		1.00	0.004544	.0469	220055560.52
1122522890	Capacitor	C310,C321,C79	Telcordia Issue 1	Level I		3.00	0.004544	.1406	220055560.52
11C2522650	Capacitor	C338,C339,C391, C392,C99	Telcordia Issue 1	Level I		5.00	0.004544	.2344	220055560.52
11E2510060	Capacitor	C107,C199,C200, C208,C219,C336	Telcordia Issue 1	Level I		6.00	0.004544	.2812	220055560.52
11C1510060	Capacitor	C130,C215,C360	Telcordia Issue 1	Level I		3.00	0.004544	.1406	220055560.52
1124515880	Capacitor	C133	Telcordia Issue 1	Level I		1.00	0.004544	.0469	220055560.52

### AAEON Reliability Prediction Report

**Part Number** 969745GS0E-D  
**Reference Des**  
**Date** 07. 15, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** AEC-6924.RPJ  
**Time** 15:05  
**Failure Rate** 9.694606  
**MTBF** 103,150

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1121533480	Capacitor	C135,C136,C165	Telcordia Issue 1	Level I		3.00	0.004544	.1406	220055560.52
1124547280	Capacitor	C142	Telcordia Issue 1	Level I		1.00	0.004544	.0469	220055560.52
1124518180	Capacitor	C156	Telcordia Issue 1	Level I		1.00	0.004544	.0469	220055560.52
1129522790	Capacitor	C163,C164,C211, C213,C214,C231, C234,C275,C288	Telcordia Issue 1	Level I		9.00	0.004544	.4219	220055560.52
1124533280	Capacitor	C183	Telcordia Issue 1	Level I		1.00	0.004544	.0469	220055560.52
1124533080	Capacitor	C369,C370,C483	Telcordia Issue 1	Level I		3.00	0.004544	.1406	220055560.52
1301005442	Semiconductor	D1,D14,D5,D6	Telcordia Issue 1	Level I		4.00	0.023950	.9882	41754194.40
1301053040	Semiconductor	D17,D19,D2,D4	Telcordia Issue 1	Level I		4.00	0.023950	.9882	41754194.40
1301005440	Semiconductor	D13,D15,D16	Telcordia Issue 1	Level I		3.00	0.023950	.7411	41754194.40
1305099140	Semiconductor	D20,D21	Telcordia Issue 1	Level I		2.00	0.079832	1.6469	12526258.32
1212306033	Inductor	FB1,FB7	Telcordia Issue 1	Level I		2.00	0.002272	.0469	440111121.05
121230603G	Inductor	FB2	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
121230603Z	Inductor	FB3,FB4,FB5	Telcordia Issue 1	Level I		3.00	0.002272	.0703	440111121.05
121230603S	Inductor	FB6	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
121230805X	Inductor	FB8	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
1304001340	Semiconductor	LED2	Telcordia Issue 1	Level I		1.00	0.004921	.0508	203197151.95
105A505603	Resistor	R585	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
1211000180	Inductor	L3	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
1211105673	Inductor	L4,L5	Telcordia Issue 1	Level I		2.00	0.002272	.0469	440111121.05
1211101064	Inductor	L6	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
121110010F	Inductor	L11,L13,L7,L8	Telcordia Issue 1	Level I		4.00	0.002272	.0937	440111121.05
121110100P	Inductor	L10,L15,L9	Telcordia Issue 1	Level I		3.00	0.002272	.0703	440111121.05
121110336L	Inductor	L1,L12,L2	Telcordia Issue 1	Level I		3.00	0.002272	.0703	440111121.05
1211100164	Inductor	L14	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
1315662210	Semiconductor	Q2,Q23,Q3,Q8	Telcordia Issue 1	Level I		4.00	0.079832	3.2939	12526258.32
1315662810	Semiconductor	Q20,Q4,Q5,Q7	Telcordia Issue 1	Level I		4.00	0.079832	3.2939	12526258.32
1315446310	Semiconductor	Q11,Q15	Telcordia Issue 1	Level I		2.00	0.079832	1.6469	12526258.32
1315441012	Semiconductor	Q12,Q27	Telcordia Issue 1	Level I		2.00	0.079832	1.6469	12526258.32
1311390610	Semiconductor	Q16,Q41	Telcordia Issue 1	Level I		2.00	0.023950	.4941	41754194.40
1310390410	Semiconductor	Q17,Q26,Q35,Q36, Q37,Q39,Q40,Q47, Q54	Telcordia Issue 1	Level I		9.00	0.023950	2.2234	41754194.40
1315700217	Semiconductor	Q25,Q29,Q31,Q38, Q42,Q43,Q44,Q45, Q46,Q55,Q56	Telcordia Issue 1	Level I		11.00	0.079832	9.0582	12526258.32
131411171G	Integrated Circuit	Q28,Q60	Telcordia Issue 1	Level I		2.00	0.059802	1.2337	16721916.86
1314108412	Integrated Circuit	Q30	Telcordia Issue 1	Level I		1.00	0.059802	.6169	16721916.86







### AAEON Reliability Prediction Report

**Part Number** 969745GS0E-D  
**Reference Des**  
**Date** 07. 15, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** AEC-6924.RPJ  
**Time** 15:05  
**Failure Rate** 9.694606  
**MTBF** 103,150

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A703309	Resistor	R117,R118,R119, R120,R121,R122, R123,R124,R125, R126,R127,R416, R420,R431,R452, R575,R656,R80,R82, R83,R84,R85,R86, R87,R97,R98	Telcordia Issue 1	Level I		26.00	0.002272	.6094	440111121.05
105A522669	Resistor	R112,R114,R115, R116,R569	Telcordia Issue 1	Level I		5.00	0.002272	.1172	440111121.05
105A525503	Resistor	R2	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
1124522180	Capacitor	C2	Telcordia Issue 1	Level I		1.00	0.004544	.0469	220055560.52
105A506823	Resistor	R138	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A500133	Resistor	R140,R148	Telcordia Issue 1	Level I		2.00	0.002272	.0469	440111121.05
105A586603	Resistor	R149	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A705609	Resistor	R163,R401,R528, R543	Telcordia Issue 1	Level I		4.00	0.002272	.0937	440111121.05
105A702229	Resistor	R167,R308,R344, R457,R495,R508, R509	Telcordia Issue 1	Level I		7.00	0.002272	.1641	440111121.05
1050520004	Resistor	R168,R453,R474, R476,R477,R478, R492,R493	Telcordia Issue 1	Level I		8.00	0.002272	.1875	440111121.05
105A547503	Resistor	R169,R439,R451, R461	Telcordia Issue 1	Level I		4.00	0.002272	.0937	440111121.05
105A549933	Resistor	R171	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A501123	Resistor	R176,R180	Telcordia Issue 1	Level I		2.00	0.002272	.0469	440111121.05
105A556213	Resistor	R179	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A575033	Resistor	R202	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
1059700001	Resistor	R203	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A514733	Resistor	R204	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A501133	Resistor	R208	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A701053	Resistor	R231,R523,R654	Telcordia Issue 1	Level I		3.00	0.002272	.0703	440111121.05
105A700003	Resistor	R232,R237,R259, R260,R261,R264, R279,R280,R283, R636	Telcordia Issue 1	Level I		10.00	0.002272	.2344	440111121.05
1050510034	Resistor	R236	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A501539	Resistor	R255	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A503933	Resistor	R238	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A536513	Resistor	R262,R265	Telcordia Issue 1	Level I		2.00	0.002272	.0469	440111121.05
105A700103	Resistor	R286,R288	Telcordia Issue 1	Level I		2.00	0.002272	.0469	440111121.05
105A526113	Resistor	R287	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A564903	Resistor	R307	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A708223	Resistor	R335,R351	Telcordia Issue 1	Level I		2.00	0.002272	.0469	440111121.05

### AAEON Reliability Prediction Report

**Part Number** 969745GS0E-D  
**Reference Des**  
**Date** 07. 15, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** AEC-6924.RPJ  
**Time** 15:05  
**Failure Rate** 9.694606  
**MTBF** 103,150

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A549969	Resistor	R380	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A515009	Resistor	R399,R400,R405, R406,R412,R413	Telcordia Issue 1	Level I		6.00	0.002272	.1406	440111121.05
1050502424	Resistor	R403	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A522103	Resistor	R415	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A518703	Resistor	R441	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A511503	Resistor	R443	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A512103	Resistor	R454	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A513333	Resistor	R498	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A517423	Resistor	R503	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A542233	Resistor	R504	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A507533	Resistor	R505	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A709133	Resistor	R506	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A747033	Resistor	R510	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A733033	Resistor	R524,R529	Telcordia Issue 1	Level I		2.00	0.002272	.0469	440111121.05
105A710053	Resistor	R530	Telcordia Issue 1	Level I		1.00	0.013633	.1406	73351853.51
105A702033	Resistor	R532	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
1050701504	Resistor	R574	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A704729	Resistor	R578,R614,R658, R663	Telcordia Issue 1	Level I		4.00	0.002272	.0937	440111121.05
105A549903	Resistor	R584	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
1050502224	Resistor	R624	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
1050700002	Resistor	R601	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
1189622150	Capacitor	TC1,TC15,TC20,TC22, TC25,TC26,TC3,TC30	Telcordia Issue 1	Level I		8.00	0.004544	.3750	220055560.52
1189633160	Capacitor	TC12,TC13,TC14, TC16,TC17,TC18, TC19,TC21,TC23, TC24,TC4,TC7,TC8, TC9	Telcordia Issue 1	Level I		14.00	0.004544	.6562	220055560.52
1142522080	Capacitor	TC11,TC29,TC5,TC6	Telcordia Issue 1	Level I		4.00	0.004544	.1875	220055560.52
1189610151	Capacitor	TC10,TC28	Telcordia Issue 1	Level I		2.00	0.004544	.0937	220055560.52
1189615161	Capacitor	TC27	Telcordia Issue 1	Level I		1.00	0.004544	.0469	220055560.52
14S2262100	Integrated Circuit	U2	Telcordia Issue 1	Level I		1.00	0.059802	.6169	16721916.86
14S4195710	Integrated Circuit	U3	Telcordia Issue 1	Level I		1.00	0.059802	.6169	16721916.86
14S2048600	Integrated Circuit	U4	Telcordia Issue 1	Level I		1.00	0.059802	.6169	16721916.86
14S2041500	Integrated Circuit	U5	Telcordia Issue 1	Level I		1.00	0.059802	.6169	16721916.86
14S4081110	Integrated Circuit	U6	Telcordia Issue 1	Level I		1.00	0.026337	.2717	37969565.62
14S2041800	Integrated Circuit	U13	Telcordia Issue 1	Level I		1.00	0.059802	.6169	16721916.86

### AAEON Reliability Prediction Report

**Part Number** 969745GS0E-D  
**Reference Des**  
**Date** 07. 15, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10

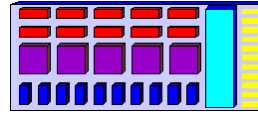


**Description**  
**File Name** AEC-6924.RPJ  
**Time** 15:05  
**Failure Rate** 9.694606  
**MTBF** 103,150

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S4751100	Integrated Circuit	U16	Telcordia Issue 1	Level I		1.00	0.026337	.2717	37969565.62
14S5A00821	Integrated Circuit	U18,U19,U20,U23, U25,U26	Telcordia Issue 1	Level I		6.00	0.026337	1.6300	37969565.62
14S2951600	Integrated Circuit	U21	Telcordia Issue 1	Level I		1.00	0.059802	.6169	16721916.86
14S5A00700	Integrated Circuit	U22	Telcordia Issue 1	Level I		1.00	0.070734	.7296	14137459.36
14S9811500	Integrated Circuit	U27	Telcordia Issue 1	Level I		1.00	0.059802	.6169	16721916.86
14S5812300	Integrated Circuit	U28	Telcordia Issue 1	Level I		1.00	0.026337	.2717	37969565.62
123131435H	Miscellaneous	Y3	Telcordia Issue 1	Level I		1.00	0.360000	3.7134	2777777.78
1231332721	Miscellaneous	Y5	Telcordia Issue 1	Level I		1.00	0.360000	3.7134	2777777.78
16515A099G	Connection	DIMM2	Telcordia Issue 1	Level I		1.00	0.028598	.2950	34968071.08
16515A099H	Connection	DIMM1	Telcordia Issue 1	Level I		1.00	0.028598	.2950	34968071.08
105A708229	Resistor	R609	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
1315002010	Semiconductor	Q57	Telcordia Issue 1	Level I		1.00	0.079832	.8235	12526258.32
105A701033	Resistor	R615,R662	Telcordia Issue 1	Level I		2.00	0.002272	.0469	440111121.05
14S3050500	Integrated Circuit	U12	Telcordia Issue 1	Level I	34.80	1.00	0.164290	1.6947	6086788.18
14S3626201	Integrated Circuit	U1	Telcordia Issue 1	Level I	32.00	1.00	0.494558	5.1014	2022008.56
14S5A00401	Integrated Circuit	U33	Telcordia Issue 1	Level I		1.00	0.026337	.2717	37969565.62
11C4501380	Capacitor	C3	Telcordia Issue 1	Level I		1.00	0.004544	.0469	220055560.52
14S9781800	Integrated Circuit	U11	Telcordia Issue 1	Level I		1.00	0.059802	.6169	16721916.86
14S4963500	Integrated Circuit	U17	Telcordia Issue 1	Level I		1.00	0.026337	.2717	37969565.62
11C4533880	Capacitor	C166	Telcordia Issue 1	Level I		1.00	0.004544	.0469	220055560.52
1124422080	Capacitor	C516,C517	Telcordia Issue 1	Level I		2.00	0.004544	.0937	220055560.52
11E2647650	Capacitor	C518,C519	Telcordia Issue 1	Level I		2.00	0.004544	.0937	220055560.52
121230603I	Inductor	FB10,FB9	Telcordia Issue 1	Level I		2.00	0.002272	.0469	440111121.05
1540722085	Resistor	RN1,RN2,RN3,RN4, RN5	Telcordia Issue 1	Level I		5.00	0.007843	.4045	127498126.09
1050547004	Resistor	R664	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
105A702209	Resistor	R666,R668,R671, R672	Telcordia Issue 1	Level I		4.00	0.002272	.0937	440111121.05
105A708209	Resistor	R667,R669,R670	Telcordia Issue 1	Level I		3.00	0.002272	.0703	440111121.05
105A704739	Resistor	R673	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
11E9510050	Capacitor	TC31,TC32	Telcordia Issue 1	Level I		2.00	0.004544	.0937	220055560.52
14S4033001	Integrated Circuit	U34	Telcordia Issue 1	Level I		1.00	0.026337	.2717	37969565.62
1231325058	Miscellaneous	Y7	Telcordia Issue 1	Level I		1.00	0.360000	3.7134	2777777.78
14S4226000	Integrated Circuit	U9	Telcordia Issue 1	Level I	37.20	1.00	0.183806	1.8960	5440521.54
14S4280124	Integrated Circuit	U30	Telcordia Issue 1	Level I	35.90	1.00	0.172998	1.7845	5780409.37
14S4245001	Integrated Circuit	U29	Telcordia Issue 1	Level I	7.60	1.00	0.040705	.4199	24567194.13
1050501234	Resistor	R653	Telcordia Issue 1	Level I		1.00	0.002272	.0234	440111121.05
1315422410	Semiconductor	Q1,Q6	Telcordia Issue 1	Level I		2.00	0.023950	.4941	41754194.40

### AAEON Reliability Prediction Report

**Part Number** 969745GS0E-D  
**Reference Des**  
**Date** 07. 15, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** AEC-6924.RPJ  
**Time** 15:05  
**Failure Rate** 9.694606  
**MTBF** 103,150

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1315992611	Semiconductor	Q18	Telcordia Issue 1	Level I		1.00	0.079832	.8235	12526258.32
1301005444	Semiconductor	D12,D18,D22,D23	Telcordia Issue 1	Level I		4.00	0.079832	3.2939	12526258.32
1600030203	Switching Device	S1	Telcordia Issue 1	Level I		1.00	0.028598	.2950	34968071.08
1315632910	Semiconductor	Q32,Q33	Telcordia Issue 1	Level I		2.00	0.079832	1.6469	12526258.32
	Other		Telcordia Issue 1			.00	0.000000	.0000	.00

**AAEON Reliability Prediction Report**

**Part Number** DTXP692400-D  
**Reference Des**  
**Date** 07. 15, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** AEC-6924.RPJ  
**Time** 15:05  
**Failure Rate** 22.006495  
**MTBF** 45,441

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1759100006	Miscellaneous	BZ1	Telcordia Issue 1	Level I		1.00	0.150000	.6816	6666666.67
165392521J	Connection	CFD1	Telcordia Issue 1	Level I		1.00	0.028598	.1300	34968071.08
1654226300	Connection	CN1A,CN9A	Telcordia Issue 1	Level I		2.00	0.028598	.2599	34968071.08
1654926900	Connection	CN1B,CN9B	Telcordia Issue 1	Level I		2.00	0.028598	.2599	34968071.08
165321320E	Connection	CN6	Telcordia Issue 1	Level I		1.00	0.028598	.1300	34968071.08
165320520C	Connection	CN4,CN5,CN7,CN8	Telcordia Issue 1	Level I		4.00	0.028598	.5198	34968071.08
1654030003	Connection	CN10	Telcordia Issue 1	Level I		1.00	0.028598	.1300	34968071.08
16540M0201	Connection	CN11,CN12	Telcordia Issue 1	Level I		2.00	0.028598	.2599	34968071.08
1653204208	Connection	CN17	Telcordia Issue 1	Level I		1.00	0.028598	.1300	34968071.08
1214309000	Inductor	CH1,CH2,CH3,CH4, CH5,CH6,CH7,CH8	Telcordia Issue 1	Level I		8.00	0.002272	.0826	440111121.05
1053500279	Resistor	CR1,CR2,CR3	Telcordia Issue 1	Level I		3.00	0.002272	.0310	440111121.05
1124533180	Capacitor	C3	Telcordia Issue 1	Level I		1.00	0.004544	.0206	220055560.52
11C1501080	Capacitor	C101,C102,C103, C104,C107,C12,C146, C151,C197,C198, C199,C20,C203,C204, C205,C237,C250, C254,C325,C394, C395,C397,C398, C403,C404,C407, C408,C416,C417, C423,C424,C426, C428,C434,C90,C93, C95,C96	Telcordia Issue 1	Level I		38.00	0.004544	.7847	220055560.52
1121501690	Capacitor	C1,C100,C105,C106, C108,C115,C120, C121,C124,C125, C127,C128,C13,C130, C131,C133,C134, C139,C140,C141, C142,C148,C149,C15, C150,C153,C154, C155,C156,C157, C158,C159,C163, C166,C169,C17,C172, C18,C180,C181,C187, C191,C206,C207,	Telcordia Issue 1	Level I		205.00	0.004544	4.2332	220055560.52
1124510280	Capacitor	C143,C147,C16,C433, C8	Telcordia Issue 1	Level I		5.00	0.004544	.1032	220055560.52
1121501680	Capacitor	C164,C179,C184,C87, C89	Telcordia Issue 1	Level I		5.00	0.004544	.1032	220055560.52

**AAEON Reliability Prediction Report**

**Part Number** DTXP692400-D  
**Reference Des**  
**Date** 07. 15, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** AEC-6924.RPJ  
**Time** 15:05  
**Failure Rate** 22.006495  
**MTBF** 45,441

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1121610180	Capacitor	C161,C263,C388, C396,C402,C415, C427,C429	Telcordia Issue 1	Level I		8.00	0.004544	.1652	220055560.52
1124547080	Capacitor	C188,C189,C190, C200,C201,C202, C411,C412,C413, C414	Telcordia Issue 1	Level I		10.00	0.004544	.2065	220055560.52
1124547180	Capacitor	C11,C14,C192,C193, C23,C24,C243,C249	Telcordia Issue 1	Level I		8.00	0.004544	.1652	220055560.52
1124510080	Capacitor	C170,C177,C63,C77	Telcordia Issue 1	Level I		4.00	0.004544	.0826	220055560.52
1129701790	Capacitor	C162,C182,C183, C277,C28,C327,C360, C361,C387	Telcordia Issue 1	Level I		9.00	0.004544	.1858	220055560.52
11E9622050	Capacitor	C152,C167,C168, C302,C308	Telcordia Issue 1	Level I		5.00	0.004544	.1032	220055560.52
11E1510050	Capacitor	C10,C111,C122,C123, C126,C144,C145, C185,C186,C19,C2, C231,C241,C25,C275, C276,C298,C299,C30, C301,C305,C306,C31, C318,C333,C335, C345,C347,C365, C366,C375,C376, C391,C399,C410, C431,C438,C60,C7, C76,C78,C9	Telcordia Issue 1	Level I		42.00	0.004544	.8673	220055560.52
1124533190	Capacitor	C194,C195,C196	Telcordia Issue 1	Level I		3.00	0.004544	.0619	220055560.52
11E9547680	Capacitor	C175,C176,C279, C340,C341	Telcordia Issue 1	Level I		5.00	0.004544	.1032	220055560.52
1124427080	Capacitor	C321,C322,C359, C362,C409	Telcordia Issue 1	Level I		5.00	0.004544	.1032	220055560.52
1124501780	Capacitor	C117,C160,C75	Telcordia Issue 1	Level I		3.00	0.004544	.0619	220055560.52
1124522280	Capacitor	C137,C138	Telcordia Issue 1	Level I		2.00	0.004544	.0413	220055560.52
11C4501060	Capacitor	C281,C367	Telcordia Issue 1	Level I		2.00	0.004544	.0413	220055560.52
1124410190	Capacitor	C260	Telcordia Issue 1	Level I		1.00	0.004544	.0206	220055560.52
1122522890	Capacitor	C363	Telcordia Issue 1	Level I		1.00	0.004544	.0206	220055560.52
11E1522680	Capacitor	C109	Telcordia Issue 1	Level I		1.00	0.004544	.0206	220055560.52
11C5501780	Capacitor	C110,C113	Telcordia Issue 1	Level I		2.00	0.004544	.0413	220055560.52
1124522290	Capacitor	C337	Telcordia Issue 1	Level I		1.00	0.004544	.0206	220055560.52
11C1522480	Capacitor	C307,C364	Telcordia Issue 1	Level I		2.00	0.004544	.0413	220055560.52
1121547661	Capacitor	C171,C284,C326, C373	Telcordia Issue 1	Level I		4.00	0.004544	.0826	220055560.52
1129710390	Capacitor	C242,C248,C262	Telcordia Issue 1	Level I		3.00	0.004544	.0619	220055560.52
1124522180	Capacitor	C178,C316	Telcordia Issue 1	Level I		2.00	0.004544	.0413	220055560.52
1129622690	Capacitor	C269	Telcordia Issue 1	Level I		1.00	0.004544	.0206	220055560.52



**AAEON Reliability Prediction Report**

**Part Number** DTXP692400-D  
**Reference Des**  
**Date** 07. 15, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



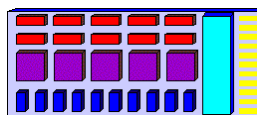
**Description**  
**File Name** AEC-6924.RPJ  
**Time** 15:05  
**Failure Rate** 22.006495  
**MTBF** 45,441

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
11C2510190	Capacitor	C112,C114,C135, C136,C173,C174, C253,C257,C265, C320,C73	Telcordia Issue 1	Level I		11.00	0.004544	.2271	220055560.52
11E2522090	Capacitor	C165,C338	Telcordia Issue 1	Level I		2.00	0.004544	.0413	220055560.52
11C5501650	Capacitor	C118,C119,C258, C422	Telcordia Issue 1	Level I		4.00	0.004544	.0826	220055560.52
1125501760	Capacitor	C430	Telcordia Issue 1	Level I		1.00	0.004544	.0206	220055560.52
1301005442	Semiconductor	D1,D18,D19,D20,D21, D23,D32,D55	Telcordia Issue 1	Level I		8.00	0.023950	.8706	41754194.40
1305100541	Semiconductor	D10,D14,D15,D30, D31,D42,D43,D44, D45,D46,D47,D48, D49,D7,D8,D9	Telcordia Issue 1	Level I		16.00	0.079832	5.8043	12526258.32
1301005441	Semiconductor	D25,D26,D28,D40, D50,D51	Telcordia Issue 1	Level I		6.00	0.023950	.6530	41754194.40
1301002240	Semiconductor	D22,D24	Telcordia Issue 1	Level I		2.00	0.023950	.2177	41754194.40
1301005440	Semiconductor	D16,D17	Telcordia Issue 1	Level I		2.00	0.023950	.2177	41754194.40
1301110040	Semiconductor	D35,D36,D37,D53	Telcordia Issue 1	Level I		4.00	0.023950	.4353	41754194.40
1300003240	Semiconductor	D52	Telcordia Issue 1	Level I		1.00	0.023950	.1088	41754194.40
1301003440	Semiconductor	D41	Telcordia Issue 1	Level I		1.00	0.023950	.1088	41754194.40
1301019740	Semiconductor	D33,D34,D38	Telcordia Issue 1	Level I		3.00	0.023950	.3265	41754194.40
1212306030	Inductor	FB21,FB35,FB36, FB39,FB42,FB45, FB47,FB49	Telcordia Issue 1	Level I		8.00	0.002272	.0826	440111121.05
121230603S	Inductor	FB10,FB11,FB12, FB13,FB14,FB15, FB16,FB17,FB18, FB19,FB2,FB20,FB29, FB30,FB31,FB32, FB33,FB34,FB37, FB38,FB4,FB40,FB41, FB43,FB46,FB48,FB5, FB55,FB56,FB6,FB9	Telcordia Issue 1	Level I		31.00	0.002272	.3201	440111121.05
1212306033	Inductor	FB22,FB23,FB24, FB44,FB50,FB51, FB52,FB53,FB54	Telcordia Issue 1	Level I		9.00	0.002272	.0929	440111121.05
1212306032	Inductor	FB1,FB25,FB26,FB27, FB3,FB7,FB8	Telcordia Issue 1	Level I		7.00	0.002272	.0723	440111121.05
1752001601	Miscellaneous	FS1,FS2,FS3	Telcordia Issue 1	Level I		3.00	0.003000	.0409	33333333.33
1653003202	Connection	JP6,JP7,JP8,JP9	Telcordia Issue 1	Level I		4.00	0.022878	.4158	43710088.85
121110476T	Inductor	L3,L4	Telcordia Issue 1	Level I		2.00	0.002272	.0206	440111121.05
1211106863	Inductor	L7	Telcordia Issue 1	Level I		1.00	0.002272	.0103	440111121.05
1211102206	Inductor	L2	Telcordia Issue 1	Level I		1.00	0.002272	.0103	440111121.05
121110100K	Inductor	L1,L5,L6	Telcordia Issue 1	Level I		3.00	0.002272	.0310	440111121.05
1654262300	Connection	MPC11	Telcordia Issue 1	Level I		1.00	0.028598	.1300	34968071.08



### AAEON Reliability Prediction Report

**Part Number** DTXP692400-D  
**Reference Des**  
**Date** 07. 15, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** AEC-6924.RPJ  
**Time** 15:05  
**Failure Rate** 22.006495  
**MTBF** 45,441

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A700003	Resistor	FB28,R1,R118,R119, R120,R121,R130, R131,R133,R145, R149,R152,R155, R160,R168,R17,R18, R202,R203,R206, R211,R212,R214, R216,R219,R220, R221,R233,R243, R244,R314,R334, R335,R336,R337, R338,R344,R348, R349,R351,R366,	Telcordia Issue 1	Level I		56.00	0.002272	.5782	440111121.05
105A733003	Resistor	R311,R312,R315, R316,R332,R333, R506,R509	Telcordia Issue 1	Level I		8.00	0.002272	.0826	440111121.05
105A700009	Resistor	R15,R196,R21,R245, R247,R26,R3,R30, R307,R308,R324, R325,R326,R33,R4, R412,R437,R438, R439,R442,R451, R465,R468,R51,R53, R544,R55,R6,R7	Telcordia Issue 1	Level I		29.00	0.002272	.2994	440111121.05
105A704729	Resistor	R137,R154,R170, R174,R185,R186, R187,R248,R251, R252,R253,R274, R281,R297,R306, R317,R319,R32,R35, R376,R381,R382, R387,R39,R390,R407, R408,R409,R41,R411, R413,R415,R417, R418,R43,R457,R466, R49,R496,R50,R572, R573,R574,R59,R	Telcordia Issue 1	Level I		45.00	0.002272	.4646	440111121.05
105A700133	Resistor	R13,R140,R142,R143, R150,R163,R189, R191,R201,R213, R215,R217,R218, R225,R234,R36,R38, R394	Telcordia Issue 1	Level I		18.00	0.002272	.1858	440111121.05
105A702233	Resistor	R162,R527,R542, R562,R567	Telcordia Issue 1	Level I		5.00	0.002272	.0516	440111121.05

### AAEON Reliability Prediction Report

**Part Number** DTXP692400-D  
**Reference Des**  
**Date** 07. 15, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** AEC-6924.RPJ  
**Time** 15:05  
**Failure Rate** 22.006495  
**MTBF** 45,441

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A702223	Resistor	R318,R531	Telcordia Issue 1	Level I		2.00	0.002272	.0206	440111121.05
105A507503	Resistor	R321,R322,R323	Telcordia Issue 1	Level I		3.00	0.002272	.0310	440111121.05
105A701033	Resistor	R109,R110,R116, R180,R193,R273, R283,R309,R365, R371,R388,R401, R403,R414,R420, R424,R430,R431, R434,R469,R474, R475,R65,R67,R70, R83,R87,R91,R96	Telcordia Issue 1	Level I		29.00	0.002272	.2994	440111121.05
105A515003	Resistor	R289,R290,R291	Telcordia Issue 1	Level I		3.00	0.002272	.0310	440111121.05
105A510003	Resistor	R177,R230,R240, R241,R259,R58	Telcordia Issue 1	Level I		6.00	0.002272	.0619	440111121.05
105A710033	Resistor	R10,R37,R456,R62, R93	Telcordia Issue 1	Level I		5.00	0.002272	.0516	440111121.05
105A710009	Resistor	R199,R200	Telcordia Issue 1	Level I		2.00	0.002272	.0206	440111121.05
105A710039	Resistor	R2,R223,R331,R5, R500,R503,R56,R564, R61,R8	Telcordia Issue 1	Level I		10.00	0.002272	.1032	440111121.05
105A701059	Resistor	R12,R198,R205,R224, R416,R419,R423	Telcordia Issue 1	Level I		7.00	0.002272	.0723	440111121.05
105A504733	Resistor	R210	Telcordia Issue 1	Level I		1.00	0.002272	.0103	440111121.05
1050502234	Resistor	R232	Telcordia Issue 1	Level I		1.00	0.002272	.0103	440111121.05
1050703334	Resistor	R260,R266	Telcordia Issue 1	Level I		2.00	0.002272	.0206	440111121.05
105A514023	Resistor	R271	Telcordia Issue 1	Level I		1.00	0.002272	.0103	440111121.05
105A510033	Resistor	R272	Telcordia Issue 1	Level I		1.00	0.002272	.0103	440111121.05
1050506224	Resistor	R425,R432	Telcordia Issue 1	Level I		2.00	0.002272	.0206	440111121.05
1050503934	Resistor	R429,R435	Telcordia Issue 1	Level I		2.00	0.002272	.0206	440111121.05
105A522033	Resistor	R566	Telcordia Issue 1	Level I		1.00	0.002272	.0103	440111121.05
105A549919	Resistor	R282,R284,R481, R483,R493,R494	Telcordia Issue 1	Level I		6.00	0.002272	.0619	440111121.05
1059700001	Resistor	R254,R363	Telcordia Issue 1	Level I		2.00	0.002272	.0206	440111121.05
105A700139	Resistor	R197,R256,R263, R264,R268,R269, R278,R292,R295, R380,R383,R42,R453, R458,R460,R461, R464,R470,R477, R478,R48,R490,R546, R547	Telcordia Issue 1	Level I		24.00	0.002272	.2478	440111121.05
105A502039	Resistor	R231,R285,R489, R560	Telcordia Issue 1	Level I		4.00	0.002272	.0413	440111121.05
105A522003	Resistor	R258	Telcordia Issue 1	Level I		1.00	0.002272	.0103	440111121.05

**AAEON Reliability Prediction Report**

**Part Number** DTXP692400-D  
**Reference Des**  
**Date** 07. 15, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** AEC-6924.RPJ  
**Time** 15:05  
**Failure Rate** 22.006495  
**MTBF** 45,441

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A720033	Resistor	R446	Telcordia Issue 1	Level I		1.00	0.002272	.0103	44011121.05
105A701039	Resistor	R226,R250,R255, R261,R262,R265, R267,R270,R276, R277,R320,R378, R385,R45,R46,R463, R497,R498,R529, R530,R538,R539, R540,R545,R548,R57	Telcordia Issue 1	Level I		26.00	0.002272	.2684	44011121.05
105A503309	Resistor	R471,R473	Telcordia Issue 1	Level I		2.00	0.002272	.0206	44011121.05
105A702263	Resistor	R235,R550	Telcordia Issue 1	Level I		2.00	0.002272	.0206	44011121.05
105A702203	Resistor	R123,R124,R134, R135,R136,R176, R181,R182,R194, R195,R549,R551	Telcordia Issue 1	Level I		12.00	0.002272	.1239	44011121.05
105A751003	Resistor	R11,R14,R63,R64,R9	Telcordia Issue 1	Level I		5.00	0.002272	.0516	44011121.05
105A708223	Resistor	R353,R354,R355, R356,R357,R358, R359,R360	Telcordia Issue 1	Level I		8.00	0.002272	.0826	44011121.05
105A708229	Resistor	R279,R280,R501, R502	Telcordia Issue 1	Level I		4.00	0.002272	.0413	44011121.05
105A549963	Resistor	R100,R102,R105, R107,R396,R398,R69, R72,R73,R76,R77, R80,R81,R85	Telcordia Issue 1	Level I		14.00	0.002272	.1445	44011121.05
105A547503	Resistor	R402	Telcordia Issue 1	Level I		1.00	0.002272	.0103	44011121.05
105A503300	Resistor	R101,R104,R106,R68, R71,R74,R75,R78, R79,R82,R86,R92, R97,R99	Telcordia Issue 1	Level I		14.00	0.002272	.1445	44011121.05
105A522623	Resistor	R445	Telcordia Issue 1	Level I		1.00	0.002272	.0103	44011121.05
105A524913	Resistor	R486	Telcordia Issue 1	Level I		1.00	0.002272	.0103	44011121.05
105A703303	Resistor	R146,R157,R169, R222,R428,R448	Telcordia Issue 1	Level I		6.00	0.002272	.0619	44011121.05
105A705103	Resistor	R447	Telcordia Issue 1	Level I		1.00	0.002272	.0103	44011121.05
105A512413	Resistor	R565,R571	Telcordia Issue 1	Level I		2.00	0.002272	.0206	44011121.05
105A534823	Resistor	R499	Telcordia Issue 1	Level I		1.00	0.002272	.0103	44011121.05
105A701003	Resistor	R433,R436,R534, R535	Telcordia Issue 1	Level I		4.00	0.002272	.0413	44011121.05
1050597623	Resistor	R238	Telcordia Issue 1	Level I		1.00	0.002272	.0103	44011121.05
105A501033	Resistor	R132,R172,R175, R179,R183,R192, R296,R421	Telcordia Issue 1	Level I		8.00	0.002272	.0826	44011121.05
105A518223	Resistor	R427	Telcordia Issue 1	Level I		1.00	0.002272	.0103	44011121.05
105A502033	Resistor	R173,R184,R485	Telcordia Issue 1	Level I		3.00	0.002272	.0310	44011121.05
105A512033	Resistor	R444	Telcordia Issue 1	Level I		1.00	0.002272	.0103	44011121.05

### AAEON Reliability Prediction Report

**Part Number** DTXP692400-D  
**Reference Des**  
**Date** 07. 15, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10

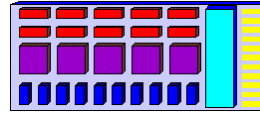


**Description**  
**File Name** AEC-6924.RPJ  
**Time** 15:05  
**Failure Rate** 22.006495  
**MTBF** 45,441

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
105A501223	Resistor	R275,R541	Telcordia Issue 1	Level I		2.00	0.002272	.0206	440111121.05
105A501533	Resistor	R443	Telcordia Issue 1	Level I		1.00	0.002272	.0103	440111121.05
105A747039	Resistor	R455	Telcordia Issue 1	Level I		1.00	0.002272	.0103	440111121.05
105A547523	Resistor	R422	Telcordia Issue 1	Level I		1.00	0.002272	.0103	440111121.05
105A515033	Resistor	R178,R239	Telcordia Issue 1	Level I		2.00	0.002272	.0206	440111121.05
105A703903	Resistor	R103,R108,R114, R117,R536,R537,R84, R88,R95,R98	Telcordia Issue 1	Level I		10.00	0.002272	.1032	440111121.05
105A705129	Resistor	R288	Telcordia Issue 1	Level I		1.00	0.002272	.0103	440111121.05
105A511503	Resistor	R28	Telcordia Issue 1	Level I		1.00	0.002272	.0103	440111121.05
105A502200	Resistor	R29,R479,R480	Telcordia Issue 1	Level I		3.00	0.002272	.0310	440111121.05
1050547004	Resistor	R375,R377,R379, R384,R386,R40,R44, R47 R482	Telcordia Issue 1	Level I		8.00	0.002272	.0826	440111121.05
105A515433	Resistor	R482	Telcordia Issue 1	Level I		1.00	0.002272	.0103	440111121.05
1654903900	Connection	SIM1	Telcordia Issue 1	Level I		1.00	0.028598	.1300	34968071.08
1181647080	Capacitor	TC3,TC6,TC7,TC8, TC9	Telcordia Issue 1	Level I		5.00	0.004544	.1032	220055560.52
1189615151	Capacitor	TC1,TC15,TC2,TC4, TC5	Telcordia Issue 1	Level I		5.00	0.004544	.1032	220055560.52
1189610180	Capacitor	TC11,TC12,TC13, TC14	Telcordia Issue 1	Level I		4.00	0.004544	.0826	220055560.52
1189615161	Capacitor	TC10	Telcordia Issue 1	Level I		1.00	0.004544	.0206	220055560.52
1315970211	Semiconductor	U22,U23,U3,U4	Telcordia Issue 1	Level I		4.00	0.159665	2.9021	6263129.16
14S4070610	Integrated Circuit	U18,U20	Telcordia Issue 1	Level I		2.00	0.059802	.5435	16721916.86
14S5A00700	Integrated Circuit	U19	Telcordia Issue 1	Level I		1.00	0.026337	.1197	37969565.62
14S2200900	Integrated Circuit	U30	Telcordia Issue 1	Level I		1.00	0.059802	.2717	16721916.86
14S3088801	Integrated Circuit	U32	Telcordia Issue 1	Level I	34.60	1.00	0.162749	.7395	6144440.32
14S4825740	Integrated Circuit	U28,U29	Telcordia Issue 1	Level I		2.00	0.026337	.2394	37969565.62
14S6308002	Integrated Circuit	U24,U25	Telcordia Issue 1	Level I		2.00	0.023111	.2100	43268765.90
1315444410	Semiconductor	U59	Telcordia Issue 1	Level I		1.00	0.159665	.7255	6263129.16
14S3910800	Integrated Circuit	U14	Telcordia Issue 1	Level I		1.00	0.026337	.1197	37969565.62
14S4650601	Integrated Circuit	U21	Telcordia Issue 1	Level I		1.00	0.059802	.2717	16721916.86
14S4911216	Integrated Circuit	U16	Telcordia Issue 1	Level I		1.00	0.026337	.1197	37969565.62
14S3370300	Integrated Circuit	U54,U55	Telcordia Issue 1	Level I	36.80	2.00	0.655722	5.9594	1525036.43
14S3378000	Integrated Circuit	U61	Telcordia Issue 1	Level I		1.00	0.059802	.2717	16721916.86
14S5382400	Integrated Circuit	U56	Telcordia Issue 1	Level I		1.00	0.070734	.3214	14137459.36
14S9811500	Integrated Circuit	U58	Telcordia Issue 1	Level I		1.00	0.059802	.2717	16721916.86
14S5912300	Integrated Circuit	U57	Telcordia Issue 1	Level I		1.00	0.059802	.2717	16721916.86
14S3128421	Integrated Circuit	U13	Telcordia Issue 1	Level I		1.00	0.059802	.2717	16721916.86
14S5A01400	Integrated Circuit	U43,U44,U47,U48	Telcordia Issue 1	Level I		4.00	0.059802	1.0870	16721916.86
14S5A12503	Integrated Circuit	U42,U45,U46,U49	Telcordia Issue 1	Level I		4.00	0.026337	.4787	37969565.62

### AAEON Reliability Prediction Report

**Part Number** DTXP692400-D  
**Reference Des**  
**Date** 07. 15, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** AEC-6924.RPJ  
**Time** 15:05  
**Failure Rate** 22.006495  
**MTBF** 45,441

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S4021301	Integrated Circuit	U10,U11,U12,U33, U34,U35,U36,U9	Telcordia Issue 1	Level I		8.00	0.059802	2.1740	16721916.86
14S4048501	Integrated Circuit	U5,U50,U51,U52,U53, U6,U7,U8	Telcordia Issue 1	Level I		8.00	0.059802	2.1740	16721916.86
14S4121601	Integrated Circuit	U15	Telcordia Issue 1	Level I		1.00	0.059802	.2717	16721916.86
14S3115001	Integrated Circuit	U2,U62	Telcordia Issue 1			2.00	0.059802	.5435	16721916.86
14S4730701	Integrated Circuit	U26,U31	Telcordia Issue 1	Level I	29.40	2.00	0.126858	1.1529	7882838.89
1314161310	Semiconductor	U27	Telcordia Issue 1	Level I		1.00	0.159665	.7255	6263129.16
14S4362706	Integrated Circuit	U17	Telcordia Issue 1	Level I		1.00	0.026337	.1197	37969565.62
1314193110	Semiconductor	U60	Telcordia Issue 1	Level I		1.00	0.159665	.7255	6263129.16
14S5A12506	Integrated Circuit	U38,U39,U40,U41	Telcordia Issue 1	Level I		4.00	0.026337	.4787	37969565.62
1231325054	Miscellaneous	Y1,Y2	Telcordia Issue 1	Level I		2.00	0.360000	3.2718	2777777.78
1752000501	Miscellaneous	FS10,FS11,FS4,FS5, FS6,FS7,FS8,FS9	Telcordia Issue 1	Level I		8.00	0.003000	.1091	33333333.33
1301005444	Semiconductor	D12,D13	Telcordia Issue 1	Level I		2.00	0.023950	.2177	41754194.40
1301053040	Semiconductor	D27,D39	Telcordia Issue 1	Level I		2.00	0.023950	.2177	41754194.40
1214216190	Inductor	L8	Telcordia Issue 1	Level I		1.00	0.002272	.0103	440111121.05
1654218200	Connection	PCIE1	Telcordia Issue 1	Level I		1.00	0.028598	.1300	34968071.08
1750220323	Miscellaneous	BT1	Telcordia Issue 1	Level I		1.00	0.600000	2.7265	1666666.67
175011901H	Miscellaneous	BT1	Telcordia Issue 1	Level I		1.00	0.600000	2.7265	1666666.67
1653900039	Connection	CFD1	Telcordia Issue 1	Level I		1.00	0.028598	.1300	34968071.08
165320520L	Connection	CN14	Telcordia Issue 1	Level I		1.00	0.028598	.1300	34968071.08
1655306023	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.028598	.1300	34968071.08
1655003010	Connection	CN13	Telcordia Issue 1	Level I		1.00	0.028598	.1300	34968071.08
1655304020	Connection	CN15,CN16,CN2	Telcordia Issue 1	Level I		3.00	0.028598	.3899	34968071.08
1652522202	Connection	CN18,CN19	Telcordia Issue 1	Level I		2.00	0.028598	.2599	34968071.08
1654458300	Connection	CN20	Telcordia Issue 1	Level I		1.00	0.028598	.1300	34968071.08
1652004100	Connection	CN21	Telcordia Issue 1	Level I		1.00	0.028598	.1300	34968071.08
1654418103	Connection	COM1,COM2	Telcordia Issue 1	Level I		2.00	0.028598	.2599	34968071.08
1304451400	Semiconductor	D29	Telcordia Issue 1	Level I		1.00	0.023950	.1088	41754194.40
1111610194	Capacitor	EC1,EC11,EC12,EC13, EC14,EC2,EC23,EC24, EC27,EC29,EC3,EC4, EC5,EC7	Telcordia Issue 1	Level I		14.00	0.071494	4.5483	13987228.43
1112610190	Capacitor	EC10,EC8	Telcordia Issue 1	Level I		2.00	0.071494	.6498	13987228.43
1115622120	Capacitor	EC21,EC22,EC25, EC26	Telcordia Issue 1	Level I		4.00	0.071494	1.2995	13987228.43
1189647193	Capacitor	EC17,EC18	Telcordia Issue 1	Level I		2.00	0.004544	.0413	220055560.52
1181647110	Capacitor	EC19,EC20,EC28, EC30,EC6,EC9	Telcordia Issue 1	Level I		6.00	0.004544	.1239	220055560.52

### AAEON Reliability Prediction Report

**Part Number** DTXP692400-D  
**Reference Des**  
**Date** 07. 15, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** AEC-6924.RPJ  
**Time** 15:05  
**Failure Rate** 22.006495  
**MTBF** 45,441

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
111961029H	Capacitor	EC15,EC16	Telcordia Issue 1	Level I		2.00	0.071494	.6498	13987228.43
1653003100	Connection	JP1,JP11,JP12,JP13, JP16,JP18,JP19	Telcordia Issue 1	Level I		7.00	0.028598	.9097	34968071.08
1653003101	Connection	JP15,JP17	Telcordia Issue 1	Level I		2.00	0.028598	.2599	34968071.08
1653003201	Connection	JP10,JP2,JP3,JP4, JP5	Telcordia Issue 1	Level I		5.00	0.028598	.6498	34968071.08
1653002202	Connection	JP14	Telcordia Issue 1	Level I		1.00	0.028598	.1300	34968071.08
1655102010	Connection	J2	Telcordia Issue 1	Level I		1.00	0.028598	.1300	34968071.08
1655104005	Connection	J1	Telcordia Issue 1	Level I		1.00	0.028598	.1300	34968071.08
1652505204	Connection	J3	Telcordia Issue 1	Level I		1.00	0.028598	.1300	34968071.08
1653300107	Connection	JP10(5-6), JP15(2-3), JP17(2-3),JP3(5-6), JP4(5-6),JP5(5-6), JP6(5-6),JP7(5-6), JP8(5-6),JP9(5-6)	Telcordia Issue 1	Level I		10.00	0.028598	1.2995	34968071.08
1653300100	Connection	JP1(2-3),JP11(2-3), JP12(2-3), JP13(1-2), JP16(2-3), JP18(2-3), JP19(2-3)	Telcordia Issue 1	Level I		7.00	0.028598	.9097	34968071.08
1654260207	Connection	PCI1	Telcordia Issue 1	Level I		1.00	0.028598	.1300	34968071.08
1654907004	Connection	SATA2,SATA3	Telcordia Issue 1	Level I		2.00	0.028598	.2599	34968071.08
1601123600	Connection	SW1	Telcordia Issue 1	Level I		1.00	0.028598	.1300	34968071.08
1654911303	Connection	SATA1	Telcordia Issue 1	Level I		1.00	0.028598	.1300	34968071.08
	Other		Telcordia Issue 1			.00	0.000000	.0000	.00



