

# TF-ONYX-6910 Reliability Prediction Report (MTBF)

Report NO : 06P070007

**9-28-2006**

Issue Date

**Wenyuan Yang**

Manager

**Jessica Chou**

Test Engineer

## Reliability Prediction (MTBF)

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I . **Model Name:** TF-ONYX-6910-A2

II . **Prediction Date:** Sep. 28, 2006

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

IV . **Predicted by:** Jessica Chou

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

### VI. Simulation Environment:

- Temperature: 25 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-ONYX-6910-A2 : (Didn't include CPU, DRAM module)

Failure Rate: 23.5589061ppm

MTBF: 42,447Hours

### AAEON Reliability Prediction Report

**Part Number** TF-ONYX-6910-A2  
**Reference Des**  
**Date** 09. 28, 2006  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.00

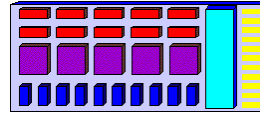


**Description** Top-level assembly  
**File Name** TF-ONYX-6910-A2.RPJ  
**Time** 2:38 下午  
**Failure Rate** 23.558906  
**MTBF** 42,447

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-ONYX-6910-A2	TF-ONYX-6910-A2	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	23.558906	42,447
A'SSY Kit	9741691015	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	23.558906	42,447
PCM-8150-A20	969781500S	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	20.196545	49,513
I/O Board T026	969BT02608	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	3.020826	331,035
969BT02609	969BT02609	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	1.692262	590,925
PER-T031	969BT03101	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	0.113794	8,787,803
PER-R01P	969BR01P00	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	0.226602	4,413,018
969BR01P01	969BR01P01	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	0.158326	6,316,089

### AAEON Reliability Prediction Report

**Part Number** 9741691015  
**Reference Des**  
**Date** 09. 28, 2006  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.00



**Description**  
**File Name** TF-ONYX-6910-A2.RPJ  
**Time** 2:38 下午  
**Failure Rate** 23.558906  
**MTBF** 42,447

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1602606A00	Connection	ROCKER SWITCH	Bellcore Issue 6	Level I		0.001138	1.00	100.0000	0.001138	878780270.71

### AAEON Reliability Prediction Report

**Part Number** 969781500S  
**Reference Des**  
**Date** 09. 28, 2006  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 21.90

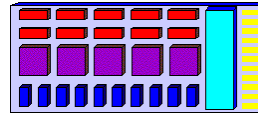


**Description**  
**File Name** TF-ONYX-6910-A2.RPJ  
**Time** 2:38 下午  
**Failure Rate** 20.196545  
**MTBF** 49,513

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1651592490	Connection	DIMM1	Bellcore Issue 6	Level I		0.088883	1.00	.4401	0.088883	11250772.56
165322020D	Connection	IDE1	Bellcore Issue 6	Level I		0.019322	1.00	.0957	0.019322	51753553.78
1653002104	Connection	JP1	Bellcore Issue 6	Level I		0.024153	1.00	.1196	0.024153	41402843.03
1653003106	Connection	JP6	Bellcore Issue 6	Level I		0.036229	1.00	.1794	0.036229	27601895.35
1652508204	Connection	LAN1	Bellcore Issue 6	Level I		0.003864	1.00	.0191	0.003864	258767768.91
1654260201	Connection	PCI1	Bellcore Issue 6	Level I		0.057967	1.00	.2870	0.057967	17251184.59
16540F0201	Connection	PCMCIA1	Bellcore Issue 6	Level I		1.811470	1.00	8.9692	1.811470	552037.91
1750220323	Connection	BT1	Bellcore Issue 6	Level I		0.000966	1.00	.0048	0.000966	1035071075.64
1750119011	Miscellaneous	BT1	Bellcore Issue 6	Level I		0.900000	1.00	4.4562	0.900000	1111111.11
1655302021	Connection	BT2	Bellcore Issue 6	Level I		0.000966	1.00	.0048	0.000966	1035071075.64
1759100008	Miscellaneous	BUZZ1	Bellcore Issue 6	Level I		0.150000	1.00	.7427	0.150000	6666666.67
1653900034	Connection	CFD1	Bellcore Issue 6	Level I		0.024153	1.00	.1196	0.024153	41402843.03
1653204205	Connection	CN1	Bellcore Issue 6	Level I		0.003864	1.00	.0191	0.003864	258767768.91
1655417020	Connection	CN5	Bellcore Issue 6	Level I		0.009661	1.00	.0478	0.009661	103507107.56
1653003207	Connection	CN9,JP3-JP5	Bellcore Issue 6	Level I		0.072459	4.00	1.4351	0.289835	13800947.68
1653005104	Connection	CN17	Bellcore Issue 6	Level I		0.002415	1.00	.0120	0.002415	414028430.26
165300420G	Connection	CN18	Bellcore Issue 6	Level I		0.003864	1.00	.0191	0.003864	258767768.91
1653005207	Connection	CN19	Bellcore Issue 6	Level I		0.004831	1.00	.0239	0.004831	207014215.13
1119622195	Capacitor	C74,C77	Bellcore Issue 6	Level I		0.038377	2.00	.3800	0.076755	26056946.84
1119622196	Capacitor	C173,C182,C75	Bellcore Issue 6	Level I		0.063962	3.00	.9501	0.191887	15634168.10
1211100100	Inductor	L27	Bellcore Issue 6	Level I		0.002133	1.00	.0106	0.002133	468890869.15
165320820C	Connection	VGA1	Bellcore Issue 6	Level I		0.007729	1.00	.0383	0.007729	129383884.46
1655003010	Connection	CN11	Bellcore Issue 6	Level I		0.036229	1.00	.1794	0.036229	27601895.35
1651611990	Connection	U19	Bellcore Issue 6	Level I		0.000966	1.00	.0048	0.000966	1035071075.64
121110010Y	Inductor	L24	Bellcore Issue 6	Level I	27.90	0.134961	1.00	.6682	0.134961	7409570.55
121110010Y	Inductor	L25	Bellcore Issue 6	Level I	27.00	0.132942	1.00	.6582	0.132942	7522093.44
1211104767	Inductor	L16,L17,L22,L26	Bellcore Issue 6	Level I		0.081042	4.00	1.6051	0.324169	12339233.40
1189922180	Capacitor	C379,C454,C567	Bellcore Issue 6	Level I		0.238778	3.00	3.5468	0.716333	4187998.24
1189922180	Capacitor	C568	Bellcore Issue 6	Level I	15.10	0.318288	1.00	1.5760	0.318288	3141806.36
1189922180	Capacitor	C639	Bellcore Issue 6	Level I	14.60	0.315415	1.00	1.5617	0.315415	3170427.16
1189922180	Capacitor	C640	Bellcore Issue 6	Level I	14.50	0.314842	1.00	1.5589	0.314842	3176193.61

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**Date** 09. 28, 2006  
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**Temp. (°C)** 21.90



**Description**  
**File Name** TF-ONYX-6910-A2.RPJ  
**Time** 2:38 下午  
**Failure Rate** 20.196545  
**MTBF** 49,513

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1189615187	Capacitor	C111	Bellcore Issue 6	Level I		0.004639	1.00	.0230	0.004639	215556448.89
1189615187	Capacitor	C415	Bellcore Issue 6	Level I	14.20	0.006084	1.00	.0301	0.006084	164373645.60
105A547003	Resistor	R692	Bellcore Issue 6	Level I		0.002133	1.00	.0106	0.002133	468890869.15
105A590963	Resistor	R693	Bellcore Issue 6	Level I		0.002133	1.00	.0106	0.002133	468890869.15
165301320B	Connection	LPT1	Bellcore Issue 6	Level I		0.012560	1.00	.0622	0.012560	79620851.97
1654262300	Connection	MPC11	Bellcore Issue 6	Level I		0.059899	1.00	.2966	0.059899	16694694.77
16540F0200	Connection	PCMCIA1	Bellcore Issue 6	Level I		0.072459	1.00	.3588	0.072459	13800947.68
1315700211	Semiconductor	Q13,Q16,Q17,Q2,Q20,Q24,Q42,Q44-Q47,Q5,Q50-Q53,Q55-Q58,Q6,Q-64	Bellcore Issue 6	Level I		0.072750	22.00	7.9246	1.600494	13745752.88
1315700211	Semiconductor	Q65,Q7,Q71,Q72,Q74,Q75	Bellcore Issue 6	Level I		0.072750	6.00	2.1613	0.436498	13745752.88
14S2533100	Integrated Circuit	Q4	Bellcore Issue 6	Level I		0.047208	1.00	.2337	0.047208	21183023.25
1315422010	Semiconductor	Q9	Bellcore Issue 6	Level I		0.072750	1.00	.3602	0.072750	13745752.88
1315992601	Semiconductor	Q10	Bellcore Issue 6	Level I		0.145499	1.00	.7204	0.145499	6872876.44
1315030110	Semiconductor	Q18,Q19,Q28-Q30,Q33	Bellcore Issue 6	Level I		0.072750	6.00	2.1613	0.436498	13745752.88
1653925216	Connection	CFD1	Bellcore Issue 6	Level I		0.024153	1.00	.1196	0.024153	41402843.03
1654030001	Connection	CN4	Bellcore Issue 6	Level I		0.362294	1.00	1.7938	0.362294	2760189.54
165322020B	Connection	CN10	Bellcore Issue 6	Level I		0.483059	1.00	2.3918	0.483059	2070142.15
1653205205	Connection	CN12,CN13	Bellcore Issue 6	Level I		0.120765	2.00	1.1959	0.241529	8280568.61
1653005209	Connection	USB1,USB2	Bellcore Issue 6	Level I		0.004831	2.00	.0478	0.009661	207014215.13
1124515180	Capacitor	C1,C5	Bellcore Issue 6	Level I		0.001039	2.00	.0103	0.002077	962696464.20
1124527180	Capacitor	C2,C3,C6	Bellcore Issue 6	Level I		0.001039	3.00	.0154	0.003116	962696464.20
1124533190	Capacitor	C154,C164,C167,C168,C174,C4,C-440,C574	Bellcore Issue 6	Level I		0.001039	8.00	.0411	0.008310	962696464.20
1129747090	Capacitor	C10-C14,C203,C222,C27-C29,C71-1-C714,C8,C9	Bellcore Issue 6	Level I		0.001039	16.00	.0823	0.016620	962696464.20
1119622181	Capacitor	C106,C37,C38,C49,C50,C94	Bellcore Issue 6	Level I		0.038377	6.00	1.1401	0.230265	26056946.84
1129747650	Capacitor	C359,C402,C403,C419,C460,C501-C585,C646,C78,C79,C82,C83	Bellcore Issue 6	Level I		0.002667	12.00	.1585	0.032006	374929558.37
1129701790	Capacitor	C109,C116,C119,C127,C137,C142-C237,C291,C354,C355,C368,C384-C412	Bellcore Issue 6	Level I		0.001565	13.00	.1007	0.020348	638893749.27
1129701790	Capacitor	C497,C513,C514,C526,C533,C541-C560,C652,C690,C93,C98	Bellcore Issue 6	Level I		0.001565	11.00	.0852	0.017217	638893749.27

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**Date** 09. 28, 2006  
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**Temp. (°C)** 21.90



**Description**  
**File Name** TF-ONYX-6910-A2.RPJ  
**Time** 2:38 下午  
**Failure Rate** 20.196545  
**MTBF** 49,513

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1124410190	Capacitor	C165,C169,C216,C229,C230,C681	Bellcore Issue 6	Level I		0.001039	6.00	.0309	0.006232	962696464.20
1121610060	Capacitor	C184,C189,C726,C762,C767	Bellcore Issue 6	Level I		0.002488	5.00	.0616	0.012438	401994414.91
1121647480	Capacitor	C765	Bellcore Issue 6	Level I		0.005355	1.00	.0265	0.005355	186743900.84
1124547190	Capacitor	C197-C202,C242,C252,C260,C280-C282,C297,C326	Bellcore Issue 6	Level I		0.001039	14.00	.0720	0.014542	962696464.20
1124427090	Capacitor	C221,C231,C238,C239,C244,C247-C351,C388	Bellcore Issue 6	Level I		0.001039	8.00	.0411	0.008310	962696464.20
1124522280	Capacitor	C262,C266	Bellcore Issue 6	Level I		0.001039	2.00	.0103	0.002077	962696464.20
1122747880	Capacitor	C613	Bellcore Issue 6	Level I		0.001565	1.00	.0077	0.001565	638893749.27
14S4285201	Integrated Circuit	U4	Bellcore Issue 6	Level I	16.80	0.084867	1.00	.4202	0.084867	11783147.16
14S4081110	Integrated Circuit	U46	Bellcore Issue 6	Level I	14.00	0.072913	1.00	.3610	0.072913	13714901.18
1315030210	Integrated Circuit	Q1,Q27	Bellcore Issue 6	Level I		0.047208	2.00	.4675	0.094415	21183023.25
1315441012	Semiconductor	Q15,Q23,Q25,Q36,Q66,Q8	Bellcore Issue 6	Level I		0.072750	6.00	2.1613	0.436498	13745752.88
1315441012	Semiconductor	Q63	Bellcore Issue 6	Level I	13.30	0.105689	1.00	.5233	0.105689	9461741.77
1315441012	Semiconductor	Q26	Bellcore Issue 6	Level I	15.80	0.112971	1.00	.5594	0.112971	8851834.16
1311390610	Semiconductor	Q14,Q54	Bellcore Issue 6	Level I		0.021825	2.00	.2161	0.043650	45819176.26
1310390410	Semiconductor	Q31,Q32,Q38,Q39	Bellcore Issue 6	Level I		0.021825	4.00	.4323	0.087300	45819176.26
1124547280	Capacitor	C668	Bellcore Issue 6	Level I		0.001039	1.00	.0051	0.001039	962696464.20
1301005442	Semiconductor	D6,D7,D34	Bellcore Issue 6	Level I		0.021825	3.00	.3242	0.065475	45819176.26
165321720A	Connection	FDD1	Bellcore Issue 6	Level I		0.016424	1.00	.0813	0.016424	60886533.86
1653003202	Connection	JP2	Bellcore Issue 6	Level I		0.072459	1.00	.3588	0.072459	13800947.68
105A520003	Resistor	R644	Bellcore Issue 6	Level I		0.002133	1.00	.0106	0.002133	468890869.15
105A506823	Resistor	R737,R741	Bellcore Issue 6	Level I		0.002133	2.00	.0211	0.004265	468890869.15
105A523233	Resistor	R739	Bellcore Issue 6	Level I		0.002133	1.00	.0106	0.002133	468890869.15
105A556223	Resistor	R769,R770	Bellcore Issue 6	Level I		0.002133	2.00	.0211	0.004265	468890869.15
14S3112100	Integrated Circuit	TF1	Bellcore Issue 6	Level I		0.047208	1.00	.2337	0.047208	21183023.25
14S4152000	Integrated Circuit	U42	Bellcore Issue 6	Level I	8.80	0.054593	1.00	.2703	0.054593	18317335.14
14S3033800	Integrated Circuit	U6	Bellcore Issue 6	Level I		0.047208	1.00	.2337	0.047208	21183023.25
14S6334610	Integrated Circuit	U8	Bellcore Issue 6	Level I		0.024331	1.00	.1205	0.024331	41099104.43
14S5A00700	Integrated Circuit	U11	Bellcore Issue 6	Level I		0.031516	1.00	.1560	0.031516	31729462.51
123131435B	Miscellaneous	Y3	Bellcore Issue 6	Level I		0.150000	1.00	.7427	0.150000	6666666.67
105A500233	Resistor	R473,R549,R683	Bellcore Issue 6	Level I		0.002133	3.00	.0317	0.006398	468890869.15

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**Temp. (°C)** 21.90



**Description**  
**File Name** TF-ONYX-6910-A2.RPJ  
**Time** 2:38 下午  
**Failure Rate** 20.196545  
**MTBF** 49,513

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A560403	Resistor	R479,R496	Bellcore Issue 6	Level I		0.002133	2.00	.0211	0.004265	468890869.15
105A548703	Resistor	R556	Bellcore Issue 6	Level I		0.002133	1.00	.0106	0.002133	468890869.15
14S5A00600	Integrated Circuit	U12	Bellcore Issue 6	Level I	9.60	0.055070	1.00	.2727	0.055070	18158569.05
14S4048501	Integrated Circuit	U14,U15	Bellcore Issue 6	Level I		0.047208	2.00	.4675	0.094415	21183023.25
14S4280106	Integrated Circuit	U18	Bellcore Issue 6	Level I	12.90	0.068640	1.00	.3399	0.068640	14568759.77
14S2705700	Integrated Circuit	U21	Bellcore Issue 6	Level I	16.50	0.151688	1.00	.7511	0.151688	6592482.19
14S2705700	Integrated Circuit	U22	Bellcore Issue 6	Level I		0.047208	1.00	.2337	0.047208	21183023.25
14S4195710	Integrated Circuit	U47	Bellcore Issue 6	Level I		0.047208	1.00	.2337	0.047208	21183023.25
14S47009B0	Integrated Circuit	U25	Bellcore Issue 6	Level I	9.70	0.057437	1.00	.2844	0.057437	17410241.37
14S4021310	Integrated Circuit	U29,U30,U34,U35	Bellcore Issue 6	Level I		0.047208	4.00	.9350	0.188830	21183023.25
14S4147600	Integrated Circuit	U37	Bellcore Issue 6	Level I	16.30	0.149668	1.00	.7411	0.149668	6681469.12
1314108412	Integrated Circuit	Q41	Bellcore Issue 6	Level I	14.20	0.129877	1.00	.6431	0.129877	7699578.77
1315700310	Semiconductor	Q61	Bellcore Issue 6	Level I	16.30	0.114472	1.00	.5668	0.114472	8735777.03
1315700310	Semiconductor	Q62	Bellcore Issue 6	Level I	16.30	0.114472	1.00	.5668	0.114472	8735777.03
1540756081	Resistor	RN10,RN12,RN14,RN16,RN18,RN20,RN21,RN23,RN25,RN31,RN33,RN38	Bellcore Issue 6	Level I		0.005412	13.00	.3484	0.070362	184757676.33
1540756081	Resistor	RN4,RN41,RN43,RN6,RN8	Bellcore Issue 6	Level I		0.004510	5.00	.1117	0.022552	221709211.60
1540782282	Resistor	RN26,RN27,RN29,RN30,RN35,RN36,RN37,RN44,RN45,RP1-RP8	Bellcore Issue 6	Level I		0.005412	17.00	.4556	0.092012	184757676.33
106B501031	Resistor	RT1,RT2	Bellcore Issue 6	Level I		0.009661	2.00	.0957	0.019322	103507107.56
105A701009	Resistor	R101,R108,R110,R113,R116,R128,R131,R133,R142,R143,R153,R165,R172	Bellcore Issue 6	Level I		0.002133	13.00	.1373	0.027725	468890869.15
105A701009	Resistor	R173,R176,R186,R207,R211,R228,R23,R232,R236,R248,R250,R251,-R273,R274	Bellcore Issue 6	Level I		0.002133	14.00	.1478	0.029858	468890869.15
105A701009	Resistor	R280,R282,R287,R326,R34,R4,R7-R725,R763,R92,R96	Bellcore Issue 6	Level I		0.002133	11.00	.1162	0.023460	468890869.15
105A704729	Resistor	R14,R15,R168,R170,R179,R182,R184,R253,R271,R275,R289,R296,R302,R303	Bellcore Issue 6	Level I		0.002133	14.00	.1478	0.029858	468890869.15
105A704729	Resistor	R305-R316,R337,R338,R347,R348-R354,R359,R361,R362,R378,R379-R380	Bellcore Issue 6	Level I		0.002133	23.00	.2429	0.049052	468890869.15





### AAEON Reliability Prediction Report

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**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 21.90



**Description**  
**File Name** TF-ONYX-6910-A2.RPJ  
**Time** 2:38 下午  
**Failure Rate** 20.196545  
**MTBF** 49,513

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A547523	Resistor	R121	Bellcore Issue 6	Level I		0.002133	1.00	.0106	0.002133	468890869.15
105A504703	Resistor	R126,R127	Bellcore Issue 6	Level I		0.002133	2.00	.0211	0.004265	468890869.15
105A501033	Resistor	R134,R358,R364,R397,R466,R468- R815,R635,R734-R736,R752,R759- R767	Bellcore Issue 6	Level I		0.002133	14.00	.1478	0.029858	468890869.15
105A501033	Resistor	R768,R771	Bellcore Issue 6	Level I		0.002133	2.00	.0211	0.004265	468890869.15
105A536513	Resistor	R823	Bellcore Issue 6	Level I		0.002133	1.00	.0106	0.002133	468890869.15
105A597613	Resistor	R481	Bellcore Issue 6	Level I		0.002133	1.00	.0106	0.002133	468890869.15
105A571533	Resistor	R150	Bellcore Issue 6	Level I		0.002133	1.00	.0106	0.002133	468890869.15
105A700003	Resistor	L39,R157,R715	Bellcore Issue 6	Level I		0.002133	3.00	.0317	0.006398	468890869.15
105A705133	Resistor	R158,R284,R711,R786	Bellcore Issue 6	Level I		0.002133	4.00	.0422	0.008531	468890869.15
105A503300	Resistor	R188,R189,R191-R194,R196-R201- R203,R205,R208,R209,R213,R214- R218	Bellcore Issue 6	Level I		0.002133	19.00	.2006	0.040521	468890869.15
105A503300	Resistor	R230,R233,R234,R239,R245	Bellcore Issue 6	Level I		0.002133	5.00	.0528	0.010663	468890869.15
105A518223	Resistor	R277,R461	Bellcore Issue 6	Level I		0.002133	2.00	.0211	0.004265	468890869.15
105A528723	Resistor	R278	Bellcore Issue 6	Level I		0.002133	1.00	.0106	0.002133	468890869.15
105A547503	Resistor	R283,R615	Bellcore Issue 6	Level I		0.002133	2.00	.0211	0.004265	468890869.15
105A514003	Resistor	R317,R322	Bellcore Issue 6	Level I		0.002133	2.00	.0211	0.004265	468890869.15
105A502033	Resistor	R349,R352,R482,R512	Bellcore Issue 6	Level I		0.002133	4.00	.0422	0.008531	468890869.15
105A513003	Resistor	R437,R554	Bellcore Issue 6	Level I		0.002133	2.00	.0211	0.004265	468890869.15
1315970211	Semiconductor	F5,F6	Bellcore Issue 6	Level I		0.145499	2.00	1.4408	0.290999	6872876.44
1301005440	Semiconductor	D1,D2,D26-D28,D31,D32,D8,D9,D33	Bellcore Issue 6	Level I		0.021825	10.00	1.0806	0.218249	45819176.26
1301053040	Semiconductor	D14-D17,D29,D3,D30,D4	Bellcore Issue 6	Level I		0.021825	8.00	.8645	0.174599	45819176.26
1301005441	Semiconductor	D10-D13	Bellcore Issue 6	Level I		0.021825	4.00	.4323	0.087300	45819176.26
1315970110	Semiconductor	F1,F4	Bellcore Issue 6	Level I		0.145499	2.00	1.4408	0.290999	6872876.44
1129610260	Capacitor	HC1	Bellcore Issue 6	Level I		0.000698	1.00	.0035	0.000698	1432875001.19
105A522663	Resistor	R558	Bellcore Issue 6	Level I		0.002133	1.00	.0106	0.002133	468890869.15
105A578703	Resistor	R608,R754,R756,R757	Bellcore Issue 6	Level I		0.002133	4.00	.0422	0.008531	468890869.15
105A551123	Resistor	R641,R658,R687,R689	Bellcore Issue 6	Level I		0.002133	4.00	.0422	0.008531	468890869.15
105A512103	Resistor	R643	Bellcore Issue 6	Level I		0.002133	1.00	.0106	0.002133	468890869.15
105A710053	Resistor	R649,R650	Bellcore Issue 6	Level I		0.012796	2.00	.1267	0.025592	78148478.19



### AAEON Reliability Prediction Report

**Part Number** 969781500S  
**Reference Des**  
**Date** 09. 28, 2006  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 21.90

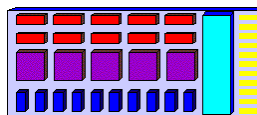


**Description**  
**File Name** TF-ONYX-6910-A2.RPJ  
**Time** 2:38 下午  
**Failure Rate** 20.196545  
**MTBF** 49,513

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1540710084	Resistor	RN1,RN11,RN13,RN15,RN17,RN19-,RN22,RN24,RN28,RN3,RN32,RN3-4,RN39	Bellcore Issue 6	Level I		0.005412	13.00	.3484	0.070362	184757676.33
1540710084	Resistor	RN40,RN42,RN5,RN7,RN9	Bellcore Issue 6	Level I		0.005412	5.00	.1340	0.027062	184757676.33
1653207205	Connection	CN2	Bellcore Issue 6	Level I		0.006763	1.00	.0335	0.006763	147867296.52
1653007209	Connection	CN8	Bellcore Issue 6	Level I		0.006763	1.00	.0335	0.006763	147867296.52
1653210204	Connection	CN7	Bellcore Issue 6	Level I		0.241529	1.00	1.1959	0.241529	4140284.30
1653300100	Connection	MINIJUMPER	Bellcore Issue 6	Level I		0.000966	1.00	.0048	0.000966	1035071075.64
1653300101	Connection	MINIJUMPER	Bellcore Issue 6	Level I		0.000966	4.00	.0191	0.003864	1035071075.64
1653300102	Connection	JP1,JP2(3-5),JP2(4-6)	Bellcore Issue 6	Level I		0.000966	3.00	.0144	0.002898	1035071075.64
1174510180	Capacitor	CP1,CP10-CP12,CP2-CP9	Bellcore Issue 6	Level I		0.001039	12.00	.0617	0.012465	962696464.20
1129701690	Capacitor	C101,C102,C107,C108,C112-C115-,C117,C118,C121,C123-C126,C128-,C129	Bellcore Issue 6	Level I		0.002488	17.00	.2094	0.042289	401994414.91
1129701690	Capacitor	C136,C140,C141,C143-C145,C147-,C149,C158,C159,C161,C162,C17-,C172,C178	Bellcore Issue 6	Level I		0.002488	15.00	.1848	0.037314	401994414.91
1129701690	Capacitor	C179,C18,C180,C183,C186,C187-,C19,C193,C194,C20,C212-C215,C-217,C218	Bellcore Issue 6	Level I		0.002488	16.00	.1971	0.039802	401994414.91
1129701690	Capacitor	C22,C226,C228,C23,C232-C234,C-240,C245,C246,C249,C25,C250,C2-55,C258	Bellcore Issue 6	Level I		0.002488	15.00	.1848	0.037314	401994414.91
1129701690	Capacitor	C26,C264,C268-C276,C279,C283-,C285,C289,C290,C293-C296,C30-,C31,C311	Bellcore Issue 6	Level I		0.002488	23.00	.2833	0.057215	401994414.91
1129701690	Capacitor	C317-C322,C328,C329,C33,C333--C336,C338,C339,C34,C340,C341-,C357,C358	Bellcore Issue 6	Level I		0.002488	20.00	.2463	0.049752	401994414.91
1129701690	Capacitor	C36,C360-C367,C369-C378,C382-,C385,C386,C387,C389-C391,C393-,C395-C399	Bellcore Issue 6	Level I		0.002488	31.00	.3818	0.077115	401994414.91
1129701690	Capacitor	C40,C404,C405,C408,C41,C410,C-413,C414,C416,C417,C420,C422--C426,C428	Bellcore Issue 6	Level I		0.002488	17.00	.2094	0.042289	401994414.91
1129701690	Capacitor	C429-C433,C435-C439,C44,C442--C444,C448,C451-C453,C455-C457-,C459,C463	Bellcore Issue 6	Level I		0.002488	23.00	.2833	0.057215	401994414.91

### AAEON Reliability Prediction Report

**Part Number** 969781500S  
**Reference Des**  
**Date** 09. 28, 2006  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 21.90



**Description**  
**File Name** TF-ONYX-6910-A2.RPJ  
**Time** 2:38 下午  
**Failure Rate** 20.196545  
**MTBF** 49,513

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1129701690	Capacitor	C464-C468,C47,C470,C472-C486,-C488,C489,C492,C493,C496,C498,-C500,C502	Bellcore Issue 6	Level I		0.002488	29.00	.3572	0.072140	401994414.91
1129701690	Capacitor	C503-C509,C511,C512,C517,C520-C525,C528,C530,C531,C536,C537,-C54,C542	Bellcore Issue 6	Level I		0.002488	23.00	.2833	0.057215	401994414.91
1129701690	Capacitor	C543-C545,C548-C550,C552-C557,-C56,C564-C566,C57,C570-C573,C-575,C581	Bellcore Issue 6	Level I		0.002488	23.00	.2833	0.057215	401994414.91
1129701690	Capacitor	C582,C587-C589,C59,C590-C594,-C596-C598,C60,C600-C605,C609,-C61,C612	Bellcore Issue 6	Level I		0.002488	22.00	.2710	0.054727	401994414.91
1129701690	Capacitor	C616-C618,C621,C622,C625-C632,-C638,C641,C642-C645,C647,C65,-C650,C653	Bellcore Issue 6	Level I		0.002488	23.00	.2833	0.057215	401994414.91
1129701690	Capacitor	C658-C660,C66,C662-C667,C669,-C67,C678,C679,C68,C688,C689,C-691,C693	Bellcore Issue 6	Level I		0.002488	18.00	.2217	0.044777	401994414.91
1129701690	Capacitor	C694,C696,C698,C699,C7,C70,C7-02-C709,C71,C715-C722,C72,C725,-C76,C80	Bellcore Issue 6	Level I		0.002488	26.00	.3202	0.064678	401994414.91
1129701690	Capacitor	C81,C84-C86,C91,C99,C754,C757-C760,C766	Bellcore Issue 6	Level I		0.002488	12.00	.1478	0.029851	401994414.91
1129710050	Capacitor	C120,C122,C134,C135,C15,C177,-C181,C195,C196,C210,C211,C227-C236,C24	Bellcore Issue 6	Level I		0.002667	14.00	.1849	0.037340	374929558.37
1129710050	Capacitor	C243,C253,C263,C278,C288,C310,-C312,C32,C323,C331,C332,C337,-C342,C35	Bellcore Issue 6	Level I		0.002667	14.00	.1849	0.037340	374929558.37
1129710050	Capacitor	C380,C381,C392,C394,C406,C409,-C411,C418,C42,C421,C43,C458,C-487,C490	Bellcore Issue 6	Level I		0.002667	14.00	.1849	0.037340	374929558.37
1129710050	Capacitor	C499,C51,C519,C52-C54,C539,C5-40,C559,C561-C563,C577-C580,C-586,C614	Bellcore Issue 6	Level I		0.002667	17.00	.2245	0.045342	374929558.37
1129710050	Capacitor	C615,C623,C63,C634-C637,C64,C-648,C651,654,C656,C670,C671-C6-77	Bellcore Issue 6	Level I		0.002667	20.00	.2641	0.053343	374929558.37
1129710050	Capacitor	C657	Bellcore Issue 6	Level I	15.10	0.002935	1.00	.0145	0.002935	340675306.27
1129710050	Capacitor	C683-C687,C69,C723,C724,C73,C-750,C751,C755,C756,C763,C764	Bellcore Issue 6	Level I		0.002667	15.00	.1981	0.040008	374929558.37





### AAEON Reliability Prediction Report

**Part Number** 969781500S  
**Reference Des**  
**Date** 09. 28, 2006  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 21.90



**Description**  
**File Name** TF-ONYX-6910-A2.RPJ  
**Time** 2:38 下午  
**Failure Rate** 20.196545  
**MTBF** 49,513

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A700139	Resistor	R103,R160,R171,R219,R264,R298-R299,R332,R356,R360,R401,R403-R423	Bellcore Issue 6	Level I		0.002133	13.00	.1373	0.027725	468890869.15
105A700139	Resistor	R432,R46,R472,R489,R507,R521--R524,R530,R542,R545,R547,R566-R567,R577	Bellcore Issue 6	Level I		0.002133	16.00	.1690	0.034123	468890869.15
105A700139	Resistor	R579,R629,R630,R645,R655,R660-R701,R710,R716,R728,R781,R784	Bellcore Issue 6	Level I		0.002133	12.00	.1267	0.025592	468890869.15
105A700139	Resistor	R806,R816,R820,R827,R832,R834-R842	Bellcore Issue 6	Level I		0.002133	7.00	.0739	0.014929	468890869.15
105A510003	Resistor	R480,R487,R505,R5508,R509,R51-R514,R516-R519,R52,R533,R779	Bellcore Issue 6	Level I		0.002133	14.00	.1478	0.029858	468890869.15
105A527463	Resistor	R491,R515,R54,R593,R632,R671	Bellcore Issue 6	Level I		0.002133	6.00	.0634	0.012796	468890869.15
105A710039	Resistor	R353,R375,R385-R387,R400,R422-R436,R443,R502,R824,R835	Bellcore Issue 6	Level I		0.002133	12.00	.1267	0.025592	468890869.15
105A710039	Resistor	R544,R637,R638,R80	Bellcore Issue 6	Level I		0.002133	4.00	.0422	0.008531	468890869.15
105A701039	Resistor	R141,R148,R152,R227,R242,R261-R276,R281,R331,R334,R335,R346-R363	Bellcore Issue 6	Level I		0.002133	13.00	.1373	0.027725	468890869.15
105A701039	Resistor	R476,R492,R546,R548,R574,R585-R591,R592,R606,R621,R626,R627-R646	Bellcore Issue 6	Level I		0.002133	13.00	.1373	0.027725	468890869.15
105A701039	Resistor	R647,R661,R681,R690,R695,R699-R724,R772,R785,R89,R91	Bellcore Issue 6	Level I		0.002133	11.00	.1162	0.023460	468890869.15
105A708229	Resistor	R166,R1774,R254-R256,R258,R259,R265-R268,R291-R293,R419,R421,R434	Bellcore Issue 6	Level I		0.002133	17.00	.1795	0.036256	468890869.15
105A708229	Resistor	R444,R446,R570,R573,R587,R589-R604,R618,R651-R653,R662,R665-R727,R99	Bellcore Issue 6	Level I		0.002133	15.00	.1584	0.031990	468890869.15
1059700001	Resistor	R112,R144,R483,R494,R513,R576-R584,R598,R669,R709,R722,R743	Bellcore Issue 6	Level I		0.002133	12.00	.1267	0.025592	468890869.15
105A701053	Resistor	R123	Bellcore Issue 6	Level I		0.002133	1.00	.0106	0.002133	468890869.15
105A501133	Resistor	R140	Bellcore Issue 6	Level I		0.002133	1.00	.0106	0.002133	468890869.15
105A502833	Resistor	R151,R350,R351	Bellcore Issue 6	Level I		0.002133	3.00	.0317	0.006398	468890869.15
105A704333	Resistor	R162,R163,R366,R452,R453	Bellcore Issue 6	Level I		0.002133	5.00	.0528	0.010663	468890869.15
105A515003	Resistor	R260,R478,R493,R497,R531,R553-R555,R609	Bellcore Issue 6	Level I		0.002133	8.00	.0845	0.017062	468890869.15
105A521033	Resistor	R279	Bellcore Issue 6	Level I		0.002133	1.00	.0106	0.002133	468890869.15

### AAEON Reliability Prediction Report

**Part Number** 969781500S  
**Reference Des**  
**Date** 09. 28, 2006  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 21.90



**Description**  
**File Name** TF-ONYX-6910-A2.RPJ  
**Time** 2:38 下午  
**Failure Rate** 20.196545  
**MTBF** 49,513

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A533203	Resistor	R285,R753,R758	Bellcore Issue 6	Level I		0.002133	3.00	.0317	0.006398	468890869.15
105A502423	Resistor	R318,R323,R721,R760	Bellcore Issue 6	Level I		0.002133	4.00	.0422	0.008531	468890869.15
1213906008	Inductor	LN1-LN8	Bellcore Issue 6	Level I		0.002133	8.00	.0845	0.017062	468890869.15
1304100540	Semiconductor	PWR	Bellcore Issue 6	Level I		0.003662	1.00	.0181	0.003662	273083191.71
1314780512	Integrated Circuit	Q76	Bellcore Issue 6	Level I		0.047208	1.00	.2337	0.047208	21183023.25
121230603T	Inductor	L1,L2,L20,L21,L28-L35,L3,L38,L4,L-44,L46-L50,L5,L52,L6,L63,L64,L67--L69,L7,L70	Bellcore Issue 6	Level I		0.002133	31.00	.3274	0.066113	468890869.15
121230603T	Inductor	L71,L72,L73	Bellcore Issue 6	Level I		0.002133	3.00	.0317	0.006398	468890869.15
121230603S	Inductor	L12,L23,L40,L43,L55,L61,L62,L74,-L8,L9	Bellcore Issue 6	Level I		0.002133	10.00	.1056	0.021327	468890869.15
121230805Z	Inductor	L14,L15,L36,L37,L45,L53,L10,L13	Bellcore Issue 6	Level I		0.002133	8.00	.0845	0.017062	468890869.15
121230805X	Inductor	L18,L19,L59,L60,L66	Bellcore Issue 6	Level I		0.002133	5.00	.0528	0.010663	468890869.15
121230603U	Inductor	L51,L65	Bellcore Issue 6	Level I		0.002133	2.00	.0211	0.004265	468890869.15
1540733082	Resistor	RN46-RN49	Bellcore Issue 6	Level I		0.005412	4.00	.1072	0.021650	184757676.33
1304002640	Semiconductor	IDE	Bellcore Issue 6	Level I		0.003662	1.00	.0181	0.003662	273083191.71
14S2222600	Integrated Circuit	U43	Bellcore Issue 6	Level I		0.047208	1.00	.2337	0.047208	21183023.25
1314111713	Integrated Circuit	Q49	Bellcore Issue 6	Level I		0.047208	1.00	.2337	0.047208	21183023.25
1304900140	Semiconductor	S3-S5	Bellcore Issue 6	Level I		0.003662	3.00	.0544	0.010986	273083191.71
105A702239	Resistor	R262	Bellcore Issue 6	Level I		0.002133	1.00	.0106	0.002133	468890869.15
14S5A01400	Integrated Circuit	U39,U40	Bellcore Issue 6	Level I		0.047208	2.00	.4675	0.094415	21183023.25
1315230111	Semiconductor	Q69,Q70,Q73	Bellcore Issue 6	Level I		0.000000	3.00	.0000	0.000000	.00
1315231310	Semiconductor	Q40,Q43,Q48	Bellcore Issue 6	Level I		0.145499	3.00	2.1613	0.436498	6872876.44
105A710009	Resistor	R327,R805	Bellcore Issue 6	Level I		0.002133	2.00	.0211	0.004265	468890869.15
1211100161	Inductor	L54,L58	Bellcore Issue 6	Level I		0.002133	2.00	.0211	0.004265	468890869.15
121110010P	Inductor	L11	Bellcore Issue 6	Level I		0.002133	1.00	.0106	0.002133	468890869.15
1211106871	Inductor	L57	Bellcore Issue 6	Level I		0.002133	1.00	.0106	0.002133	468890869.15
1315446310	Integrated Circuit	Q67,Q68	Bellcore Issue 6	Level I		0.047208	2.00	.4675	0.094415	21183023.25
			Bellcore Issue 6			0.000000	1.00	.0000	0.000000	.00



### AAEON Reliability Prediction Report

**Part Number** 969BT02608  
**Reference Des**  
**Date** 09. 28, 2006  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.00

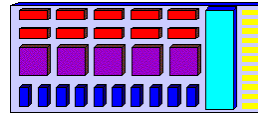


**Description**  
**File Name** TF-ONYX-6910-A2.RPJ  
**Time** 2:38 下午  
**Failure Rate** 3.020826  
**MTBF** 331,035

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1300140010	Semiconductor	D12-D14	Bellcore Issue 6	Level I		0.023881	3.00	5.3925	0.071643	41874327.58
1169701700	Capacitor	C57,C58	Bellcore Issue 6	Level I		0.005466	2.00	.8228	0.010931	182961702.19
1601123600	Connection	S1	Bellcore Issue 6	Level I		0.002276	1.00	.1713	0.002276	439390135.35
1654418100	Connection	COM1/2,COM3/4	Bellcore Issue 6	Level I		0.005121	2.00	.7709	0.010241	195284504.60
1654808300	Connection	USB3,USB4	Bellcore Issue 6	Level I		0.004552	2.00	.6852	0.009104	219695067.68
1655003000	Connection	J9	Bellcore Issue 6	Level I		0.001707	1.00	.1285	0.001707	585853513.81
1655308021	Connection	CN1	Bellcore Issue 6	Level I		0.004552	1.00	.3426	0.004552	219695067.68
1300582200	Semiconductor	D10,D11	Bellcore Issue 6	Level I		0.023881	2.00	3.5950	0.047762	41874327.58
1654612304	Connection	KB/MS	Bellcore Issue 6	Level I		0.003414	1.00	.2570	0.003414	292926756.90
1211103304	Inductor	L1	Bellcore Issue 6	Level I		0.086173	1.00	6.4862	0.086173	11604581.32
1654609300	Connection	AUDIO	Bellcore Issue 6	Level I		0.005121	1.00	.3854	0.005121	195284504.60
1654415304	Connection	CRT	Bellcore Issue 6	Level I		0.008535	1.00	.6424	0.008535	117170702.76
1654425500	Connection	PRN	Bellcore Issue 6	Level I		0.014224	1.00	1.0706	0.014224	70302421.66
1653022205	Connection	IDE2	Bellcore Issue 6	Level I		0.025035	1.00	1.8843	0.025035	39944557.76
1655108110	Connection	J7	Bellcore Issue 6	Level I		0.004552	1.00	.3426	0.004552	219695067.68
1304100052	Semiconductor	D2	Bellcore Issue 6	Level I		0.004877	1.00	.3671	0.004877	205063180.81
1304100053	Semiconductor	D1	Bellcore Issue 6	Level I		0.004877	1.00	.3671	0.004877	205063180.81
1653005224	Connection	CN3	Bellcore Issue 6	Level I		0.005690	1.00	.4283	0.005690	175756054.14
1653008220	Connection	VGA1	Bellcore Issue 6	Level I		0.009104	1.00	.6852	0.009104	109847533.84
1653020220	Connection	CN6,IDE1	Bellcore Issue 6	Level I		0.022759	2.00	3.4261	0.045518	43939013.54
1653004222	Connection	CN4	Bellcore Issue 6	Level I		0.004552	1.00	.3426	0.004552	219695067.68
1654260203	Connection	PCI1	Bellcore Issue 6	Level I		0.068276	1.00	5.1391	0.068276	14646337.85
1211100500	Inductor	L22	Bellcore Issue 6	Level I		0.086173	1.00	6.4862	0.086173	11604581.32
1211100600	Inductor	L21	Bellcore Issue 6	Level I		0.086173	1.00	6.4862	0.086173	11604581.32
165302020B	Connection	J2	Bellcore Issue 6	Level I		0.022759	1.00	1.7130	0.022759	43939013.54
1653040202	Connection	J1	Bellcore Issue 6	Level I		0.045518	1.00	3.4261	0.045518	21969506.77
121110100C	Inductor	L23	Bellcore Issue 6	Level I		0.086173	1.00	6.4862	0.086173	11604581.32
1652003101	Connection	J6	Bellcore Issue 6	Level I		0.001707	1.00	.1285	0.001707	585853513.81
1655102110	Connection	J8	Bellcore Issue 6	Level I		0.001138	1.00	.0857	0.001138	878780270.71
1119622111	Capacitor	C20,C21,C36,C37,C42,C48,C49,C-56,C59,C60,C63,C64	Bellcore Issue 6	Level I		0.042673	12.00	38.5434	0.512073	23434140.55

## AAEON Reliability Prediction Report

**Part Number** 969BT02608  
**Reference Des**  
**Date** 09. 28, 2006  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.00



**Description**  
**File Name** TF-ONYX-6910-A2.RPJ  
**Time** 2:38 下午  
**Failure Rate** 3.020826  
**MTBF** 331,035

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate,%	Failure Rate	MTBF, Unit
1653005228	Connection	USB1,USB2	Bellcore Issue 6	Level I		0.005690	2.00	.8565	0.011379	175756054.14
1653007224	Connection	CN2	Bellcore Issue 6	Level I		0.007966	1.00	.5996	0.007966	125540038.67
1653013225	Connection	LPT1	Bellcore Issue 6	Level I		0.014793	1.00	1.1135	0.014793	67598482.36
165250820B	Connection	LAN	Bellcore Issue 6	Level I		0.004552	1.00	.3426	0.004552	219695067.68

### AAEON Reliability Prediction Report

**Part Number** 969BT02609  
**Reference Des**  
**Date** 09. 28, 2006  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.00



**Description**  
**File Name** TF-ONYX-6910-A2.RPJ  
**Time** 2:38 下午  
**Failure Rate** 1.692262  
**MTBF** 590,925

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A501033	Resistor	R38	Bellcore Issue 6	Level I		0.002268	1.00	.1340	0.002268	440974090.03
105A700003	Resistor	R12,R15,R17,R23-R25,R29,R42,R-43,R47-R51	Bellcore Issue 6	Level I		0.002268	14.00	1.8761	0.031748	440974090.03
105A701053	Resistor	R44-R46	Bellcore Issue 6	Level I		0.002268	3.00	.4020	0.006803	440974090.03
105A733003	Resistor	R13,R14	Bellcore Issue 6	Level I		0.002268	2.00	.2680	0.004535	440974090.03
1059501001	Resistor	R20	Bellcore Issue 6	Level I		0.002268	1.00	.1340	0.002268	440974090.03
1059700001	Resistor	R27,R36,R4,R6	Bellcore Issue 6	Level I		0.002268	4.00	.5360	0.009071	440974090.03
1059700101	Resistor	R32	Bellcore Issue 6	Level I		0.002268	1.00	.1340	0.002268	440974090.03
1059710051	Resistor	R31	Bellcore Issue 6	Level I		0.013606	1.00	.8040	0.013606	73495681.67
105A510033	Resistor	R39	Bellcore Issue 6	Level I		0.002268	1.00	.1340	0.002268	440974090.03
105A522033	Resistor	R52,R53	Bellcore Issue 6	Level I		0.002268	2.00	.2680	0.004535	440974090.03
105A704733	Resistor	R37,R56	Bellcore Issue 6	Level I		0.002268	2.00	.2680	0.004535	440974090.03
1124510280	Capacitor	C53	Bellcore Issue 6	Level I		0.004535	1.00	.2680	0.004535	220487045.01
1124522180	Capacitor	C41	Bellcore Issue 6	Level I		0.004535	1.00	.2680	0.004535	220487045.01
1124433080	Capacitor	C24,C28	Bellcore Issue 6	Level I		0.004535	2.00	.5360	0.009071	220487045.01
1124447080	Capacitor	C13	Bellcore Issue 6	Level I		0.004535	1.00	.2680	0.004535	220487045.01
1540700080	Resistor	LN1-LN8,RN1-RN4	Bellcore Issue 6	Level I		0.006246	12.00	4.4291	0.074952	160102772.00
1124701650	Capacitor	C3,C51,C52	Bellcore Issue 6	Level I		0.004535	3.00	.8040	0.013606	220487045.01
1125501760	Capacitor	C61	Bellcore Issue 6	Level I		0.004535	1.00	.2680	0.004535	220487045.01
1540710380	Resistor	RP1	Bellcore Issue 6	Level I		0.006246	1.00	.3691	0.006246	160102772.00
1143610080	Capacitor	C23,C26,C38,C55	Bellcore Issue 6	Level I		0.004535	4.00	1.0720	0.018142	220487045.01
1212306033	Inductor	L13-L20	Bellcore Issue 6	Level I		0.002268	8.00	1.0720	0.018142	440974090.03
105A556223	Resistor	R26,R28	Bellcore Issue 6	Level I		0.002268	2.00	.2680	0.004535	440974090.03
105A524303	Resistor	R41	Bellcore Issue 6	Level I		0.002268	1.00	.1340	0.002268	440974090.03
1189610180	Capacitor	C18,C19,C34,C35	Bellcore Issue 6	Level I		0.004535	4.00	1.0720	0.018142	220487045.01
1124410180	Capacitor	C54	Bellcore Issue 6	Level I		0.004535	1.00	.2680	0.004535	220487045.01
1123710090	Capacitor	C11,C4	Bellcore Issue 6	Level I		0.004535	2.00	.5360	0.009071	220487045.01
1124701680	Capacitor	C10,C14-C17,C22,C25,C27,C29-C-33,C39,C40,C45-C47,C5,C6,C65,C-66,C7-C9	Bellcore Issue 6	Level I		0.004535	25.00	6.7002	0.113385	220487045.01
1174618180	Capacitor	CP1,CP10-CP13,CP2-CP9	Bellcore Issue 6	Level I		0.005466	13.00	4.1987	0.071053	182961702.19
105A539203	Resistor	R40	Bellcore Issue 6	Level I		0.002268	1.00	.1340	0.002268	440974090.03



### AAEON Reliability Prediction Report

**Part Number** 969BT03101  
**Reference Des**  
**Date** 09. 28, 2006  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.00

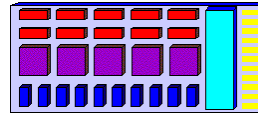


**Description**  
**File Name** TF-ONYX-6910-A2.RPJ  
**Time** 2:38 下午  
**Failure Rate** 0.113794  
**MTBF** 8,787,803

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1653025220	Connection	J1-J4	Bellcore Issue 6	Level I		0.028449	4.00	100.0000	0.113794	35151210.83

### AAEON Reliability Prediction Report

**Part Number** 969BR01P00  
**Reference Des**  
**Date** 09. 28, 2006  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.00



**Description**  
**File Name** TF-ONYX-6910-A2.RPJ  
**Time** 2:38 下午  
**Failure Rate** 0.226602  
**MTBF** 4,413,018

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1654260203	Connection	PCI1	Bellcore Issue 6	Level I		0.068276	1.00	100.0000	0.068276	14646337.85

