

# FOX-81

## Reliability Prediction Report (MTBF)

Summary	Failure Rate: 20.218202 ppm MTBF: 49,460 Hours
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Issue date	Approval	Test Engineer
2011/05/05	Jansin Lee	Jessica Chou

# Reliability Prediction (MTBF)

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**I . Model Name:** TF-FOX-81HTT-A1-1011

**II . Prediction Date:** May 5<sup>th</sup>, 2011

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

**IV . Predicted by:** Jessica Chou

**V . Equipment:** Relx 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-FOX-81HTT-A1-1011(Not include LCD):

- Failure Rate: 20.218202 ppm
- MTBF: 49,460 Hours

Below component MTBF value were provided by the supplier:

(TF)TFT LCD.AUO 8.4" LCD.LCM Bonding Normal Touch Panel.Twinwill. EE010001300C0R

MTBF: 50,000 hours

### AAEON Reliability Prediction Report

**Part Number** System  
**Reference Des**  
**Date** 05. 5, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10

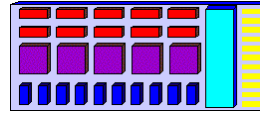


**Description** Top-level assembly  
**File Name** TF-FOX-81HTT-A1-1011.RPJ  
**Time** 10:03  
**Failure Rate** 20.218202  
**MTBF** 49,460

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-FOX-81HTT-A1-1010	System	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	20.22	49460.38
ASS'Y I/O BOARD PER-T102 A1.5	9697T10205-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	1.51	661338.19
ASS'Y SW BOARD PER-T117 A1.0	9697T11700-DIP	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	2.29e-003	437100888.47
ASS'Y POWER BOARD PER-P15D A1.0	9697P15D01-DIP	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	2.19	455802.97
GENE-9455 Rev.1.0.5V	969794550B-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	16.34	61186.11

### AAEON Reliability Prediction Report

**Part Number** System  
**Reference Des**  
**Date** 05. 5, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description** Top-level assembly  
**File Name** TF-FOX-81HTT-A1-1011.RPJ  
**Time** 10:03  
**Failure Rate** 20.218202  
**MTBF** 49,460

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14D6A01G45	Integrated Circuit	DDR2	Telcordia Issue 1	Level 1		1.00	0.166319	100.0000	6012555.31

### AAEON Reliability Prediction Report

**Part Number** 9697T10205-D  
**Reference Des**  
**Date** 05. 5, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** TF-FOX-81HTT-A1-1011.RPJ  
**Time** 10:03  
**Failure Rate** 1.512086  
**MTBF** 661,338

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1122701680	Capacitor	C1,C10,C12,C13,C14, C15,C16,C17,C18, C19,C20,C21,C22,C3, C4,C6,C7	Telcordia Issue 1	Level I		17.00	0.004544	5.1091	220055560.52
1121701050	Capacitor	C5	Telcordia Issue 1	Level I		1.00	0.004544	.3005	220055560.52
1129610051	Capacitor	C11	Telcordia Issue 1	Level I		1.00	0.004544	.3005	220055560.52
1122501780	Capacitor	C23,C24,C25,C26, C27	Telcordia Issue 1	Level I		5.00	0.004544	1.5027	220055560.52
1304101340	Semiconductor	D1	Telcordia Issue 1	Level I		1.00	0.004921	.3255	203197151.95
1301005441	Semiconductor	D2,D4,D5,D6,D7,D8	Telcordia Issue 1	Level I		6.00	0.027266	10.8192	36675926.75
1302005642	Semiconductor	D3	Telcordia Issue 1	Level I		1.00	0.027266	1.8032	36675926.75
1212306030	Inductor	FB1,FB2,FB3,FB4, FB5	Telcordia Issue 1	Level I		5.00	0.002272	.7513	440111121.05
105A701033	Resistor	R1,R10,R17,R18,R19, R2,R23,R24,R26,R27, R3,R36,R41,R44	Telcordia Issue 1	Level I		14.00	0.002272	2.1037	440111121.05
105A722003	Resistor	R4	Telcordia Issue 1	Level I		1.00	0.002272	.1503	440111121.05
1059700001	Resistor	R14	Telcordia Issue 1	Level I		1.00	0.002272	.1503	440111121.05
105A700003	Resistor	R16	Telcordia Issue 1	Level I		1.00	0.002272	.1503	440111121.05
105A500133	Resistor	R21,R22	Telcordia Issue 1	Level I		2.00	0.002272	.3005	440111121.05
105A702033	Resistor	R25,R32	Telcordia Issue 1	Level I		2.00	0.002272	.3005	440111121.05
105A504723	Resistor	R28	Telcordia Issue 1	Level I		1.00	0.002272	.1503	440111121.05
105A705123	Resistor	R29,R31	Telcordia Issue 1	Level I		2.00	0.002272	.3005	440111121.05
105A710003	Resistor	R30,R33,R34,R38, R40,R43	Telcordia Issue 1	Level I		6.00	0.002272	.9016	440111121.05
105A530163	Resistor	R35,R37,R39,R42, R45,R46	Telcordia Issue 1	Level I		6.00	0.002272	.9016	440111121.05
14S5A00401	Integrated Circuit	U2	Telcordia Issue 1	Level I		1.00	0.026337	1.7418	37969565.62
14S5A12509	Integrated Circuit	U3	Telcordia Issue 1	Level I		1.00	0.059802	3.9549	16721916.86
14S3522800	Integrated Circuit	U4	Telcordia Issue 1	Level I		1.00	0.059802	3.9549	16721916.86
1314880511	Integrated Circuit	U5	Telcordia Issue 1	Level I		1.00	0.059802	3.9549	16721916.86
14S4268302	Integrated Circuit	U6	Telcordia Issue 1	Level I		1.00	0.026337	1.7418	37969565.62
14S4020202	Integrated Circuit	U7	Telcordia Issue 1	Level I		1.00	0.059802	3.9549	16721916.86
14S4045802	Integrated Circuit	U8	Telcordia Issue 1	Level I		1.00	0.059802	3.9549	16721916.86
14S6336600	Integrated Circuit	U9	Telcordia Issue 1	Level I		1.00	0.030888	2.0427	32375315.19
1315155510	Semiconductor	U10,U11,U12	Telcordia Issue 1	Level I		3.00	0.159665	31.6777	6263129.16
11C1522650	Capacitor	C2	Telcordia Issue 1	Level I		1.00	0.004544	.3005	220055560.52
14S5977400	Integrated Circuit	U1	Telcordia Issue 1	Level I		1.00	0.059802	3.9549	16721916.86
1655302020	Connection	CN1,CN4	Telcordia Issue 1	Level I		2.00	0.001144	.1513	874201776.95
1655304020	Connection	CN2,CN5,CN6,CN7, CN8	Telcordia Issue 1	Level I		5.00	0.002288	.7565	437100888.47
1655305020	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.002860	.1891	349680710.78
1653005100	Connection	CN9	Telcordia Issue 1	Level I		1.00	0.071494	4.7282	13987228.43







**AAEON Reliability Prediction Report**

**Part Number** 9697P15D01-DIP  
**Reference Des**  
**Date** 05. 5, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** TF-FOX-81HTT-A1-1011.RPJ  
**Time** 10:03  
**Failure Rate** 2.193930  
**MTBF** 455,803

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1124701680	Capacitor	C1,C10,C12,C17,C18, C2,C3,C4,C5,C6,C9	Telcordia Issue 1	Level I		11.00	0.004544	2.2784	220055560.52
1122722780	Capacitor	C7	Telcordia Issue 1	Level I		1.00	0.004544	.2071	220055560.52
1124547180	Capacitor	C8	Telcordia Issue 1	Level I		1.00	0.004544	.2071	220055560.52
1124510180	Capacitor	C11	Telcordia Issue 1	Level I		1.00	0.004544	.2071	220055560.52
1121610060	Capacitor	C13	Telcordia Issue 1	Level I		1.00	0.004544	.2071	220055560.52
1124568280	Capacitor	C14	Telcordia Issue 1	Level I		1.00	0.004544	.2071	220055560.52
1189610180	Capacitor	C16	Telcordia Issue 1	Level I		1.00	0.004544	.2071	220055560.52
1301581943	Semiconductor	D1,D2	Telcordia Issue 1	Level I		2.00	0.023950	2.1833	41754194.40
1301003640	Semiconductor	D3	Telcordia Issue 1	Level I		1.00	0.023950	1.0916	41754194.40
121230805H	Inductor	L1,L2,L3	Telcordia Issue 1	Level I		3.00	0.002272	.3107	440111121.05
1315567011	Semiconductor	Q1	Telcordia Issue 1	Level I		1.00	0.079832	3.6388	12526258.32
1315700212	Semiconductor	Q2	Telcordia Issue 1	Level I		1.00	0.079832	3.6388	12526258.32
1315301110	Semiconductor	Q3	Telcordia Issue 1	Level I	47.80	1.00	0.260617	11.8790	3837041.77
105A701053	Resistor	R1	Telcordia Issue 1	Level I		1.00	0.002272	.1036	440111121.05
105A510033	Resistor	R2	Telcordia Issue 1	Level I		1.00	0.002272	.1036	440111121.05
105A501133	Resistor	R3	Telcordia Issue 1	Level I		1.00	0.002272	.1036	440111121.05
105A503333	Resistor	R4	Telcordia Issue 1	Level I		1.00	0.002272	.1036	440111121.05
105A502033	Resistor	R5	Telcordia Issue 1	Level I		1.00	0.002272	.1036	440111121.05
105A700103	Resistor	R6	Telcordia Issue 1	Level I		1.00	0.002272	.1036	440111121.05
105A501033	Resistor	R7	Telcordia Issue 1	Level I		1.00	0.002272	.1036	440111121.05
105A512713	Resistor	R8	Telcordia Issue 1	Level I		1.00	0.002272	.1036	440111121.05
105A703953	Resistor	R9	Telcordia Issue 1	Level I		1.00	0.013633	.6214	73351853.51
105A506823	Resistor	R10	Telcordia Issue 1	Level I		1.00	0.002272	.1036	440111121.05
105A700333	Resistor	R11	Telcordia Issue 1	Level I		1.00	0.002272	.1036	440111121.05
1059710003	Resistor	R12	Telcordia Issue 1	Level I		1.00	0.002272	.1036	440111121.05
105A700133	Resistor	R13	Telcordia Issue 1	Level I		1.00	0.002272	.1036	440111121.05
1315177810	Semiconductor	U1	Telcordia Issue 1	Level I	52.30	1.00	0.573042	26.1194	1745074.22
1314257610	Integrated Circuit	U2	Telcordia Issue 1	Level I	35.60	1.00	0.611539	27.8741	1635217.83
1119622112	Capacitor	CE1,CE2	Telcordia Issue 1	Level I		2.00	0.042896	3.9104	23312047.39
1181618110	Capacitor	CE3,CE4	Telcordia Issue 1	Level I		2.00	0.004544	.4143	220055560.52
1111610211	Capacitor	C15	Telcordia Issue 1	Level I		1.00	0.071494	3.2587	13987228.43
1653003101	Connection	JP1	Telcordia Issue 1	Level I		1.00	0.001716	.0782	582801184.63
1655103010	Connection	JP2,SW1	Telcordia Issue 1	Level I		2.00	0.022878	2.0856	43710088.85
1653002101	Connection	JP3	Telcordia Issue 1	Level I		1.00	0.001144	.0521	874201776.95
1655305020	Connection	J1	Telcordia Issue 1	Level I		1.00	0.002860	.1303	349680710.78



### AAEON Reliability Prediction Report

**Part Number** 969794550B-D  
**Reference Des**  
**Date** 05. 5, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** TF-FOX-81HTT-A1-1011.RPJ  
**Time** 10:03  
**Failure Rate** 16.343579  
**MTBF** 61,186

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A510733	Resistor	R411	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A542213	Resistor	R544	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
1214309000	Inductor	CH1,CH2,CH3,CH4	Telcordia Issue 1	Level I		4.00	0.002272	.0556	440111121.05
1655909032	Connection	CN5	Telcordia Issue 1	Level I		1.00	0.005148	.0315	194267061.54
165322220J	Connection	CN6	Telcordia Issue 1	Level I		1.00	0.022878	.1400	43710088.85
1653204208	Connection	CN10	Telcordia Issue 1	Level I		1.00	0.004576	.0280	218550444.24
1654030003	Connection	CN13	Telcordia Issue 1	Level I		1.00	0.017159	.1050	58280118.46
165320520G	Connection	CN16,CN17,CN18, CN20,CN9	Telcordia Issue 1	Level I		5.00	0.005720	.1750	174840355.39
1174522180	Capacitor	CP1,CP2,CP3,CP4, CP5,CP6,CP7,CP8, CP9	Telcordia Issue 1	Level I		9.00	0.005469	.3012	182842274.63
1124410190	Capacitor	C1,C4,C5,C6,C7,C9	Telcordia Issue 1	Level I		6.00	0.004544	.1668	220055560.52
11B2701690	Capacitor	C104,C105,C106, C107,C111,C112, C113,C114,C115, C119,C12,C121,C122, C123,C124,C125, C126,C130,C132, C137,C139,C142, C146,C148,C149,C15, C150,C151,C152, C158,C16,C160,C161, C166,C169,C17,C176, C18,C181,C185,C188, C19,C191,C192,C	Telcordia Issue 1	Level I		258.00	0.004544	7.1737	220055560.52
11E9501091	Capacitor	C11,C163,C164,C168, C177,C178,C182, C189,C205,C206, C207,C208,C209, C213,C214,C218, C229,C230,C231, C232,C233,C234, C235,C242,C243, C244,C245,C268, C269,C292,C293, C432,C443,C461,C48, C493,C511,C513, C517,C519,C521,	Telcordia Issue 1	Level I		53.00	0.004544	1.4737	220055560.52
1124522880	Capacitor	C14,C265	Telcordia Issue 1	Level I		2.00	0.004544	.0556	220055560.52
1124568280	Capacitor	C22	Telcordia Issue 1	Level I		1.00	0.004544	.0278	220055560.52
1124547190	Capacitor	C25,C26,C27,C35, C36,C38,C73	Telcordia Issue 1	Level I		7.00	0.004544	.1946	220055560.52

### AAEON Reliability Prediction Report

**Part Number** 969794550B-D  
**Reference Des**  
**Date** 05. 5, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10

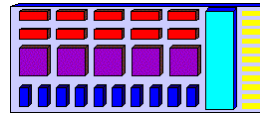


**Description**  
**File Name** TF-FOX-81HTT-A1-1011.RPJ  
**Time** 10:03  
**Failure Rate** 16.343579  
**MTBF** 61,186

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1129701790	Capacitor	C154,C156,C28,C284,C29,C338,C374,C385,C388,C392,C429,C467,C490,C78	Telcordia Issue 1	Level I		14.00	0.004544	.3893	220055560.52
1129710090	Capacitor	C157,C180,C186,C197,C32,C37,C502	Telcordia Issue 1	Level I		7.00	0.004544	.1946	220055560.52
1124405090	Capacitor	C344,C45,C47,C55,C59,C61	Telcordia Issue 1	Level I		6.00	0.004544	.1668	220055560.52
1124427090	Capacitor	C389,C390,C458,C459,C46,C51,C69,C95,C96,C97,C98	Telcordia Issue 1	Level I		11.00	0.004544	.3059	220055560.52
1121610060	Capacitor	C60	Telcordia Issue 1	Level I		1.00	0.004544	.0278	220055560.52
1129715090	Capacitor	C72	Telcordia Issue 1	Level I		1.00	0.004544	.0278	220055560.52
1129710390	Capacitor	C118,C131,C499,C500,C504,C505,C524,C526,C548,C549,C77,C82	Telcordia Issue 1	Level I		12.00	0.004544	.3337	220055560.52
1129747090	Capacitor	C311,C414,C84,C86,C89	Telcordia Issue 1	Level I		5.00	0.004544	.1390	220055560.52
11E9647680	Capacitor	C100,C117,C145,C159,C165,C167,C211,C212,C258,C259,C277,C342,C395,C442,C470,C474	Telcordia Issue 1	Level I		16.00	0.004544	.4449	220055560.52
1129722680	Capacitor	C101,C102,C116,C134,C135,C136,C196	Telcordia Issue 1	Level I		7.00	0.004544	.1946	220055560.52
11E1547090	Capacitor	C140	Telcordia Issue 1	Level I		1.00	0.004544	.0278	220055560.52
1129722091	Capacitor	C184,C190,C198,C507,C508,C509	Telcordia Issue 1	Level I		6.00	0.004544	.1668	220055560.52
11B9747490	Capacitor	C226,C264,C274,C306	Telcordia Issue 1	Level I		4.00	0.004544	.1112	220055560.52
1122722890	Capacitor	C254,C272,C291,C298,C301,C303,C304	Telcordia Issue 1	Level I		7.00	0.004544	.1946	220055560.52
1124547290	Capacitor	C316,C318,C322,C323,C370,C371,C400,C401	Telcordia Issue 1	Level I		8.00	0.004544	.2224	220055560.52
1124518280	Capacitor	C404	Telcordia Issue 1	Level I		1.00	0.004544	.0278	220055560.52
16515A0996	Connection	DIMM1	Telcordia Issue 1	Level I		1.00	0.114390	.6999	8742017.77
1304101340	Semiconductor	D1,D19,D2	Telcordia Issue 1	Level I		3.00	0.004921	.0903	203197151.95
1304001340	Semiconductor	D20	Telcordia Issue 1	Level I		1.00	0.004921	.0301	203197151.95
1301005443	Semiconductor	D18,D26,D3,D33,D35,D37,D40	Telcordia Issue 1	Level I		7.00	0.027266	1.1678	36675926.75
1305000140	Semiconductor	D10,D11,D12,D29,D30,D31,D32,D4,D5,D6,D7,D8,D9	Telcordia Issue 1	Level I		13.00	0.023950	1.9050	41754194.40
1301005441	Semiconductor	D13,D14,D28	Telcordia Issue 1	Level I		3.00	0.027266	.5005	36675926.75
1300581940	Semiconductor	D15	Telcordia Issue 1	Level I		1.00	0.079832	.4885	12526258.32
1301053040	Semiconductor	D16,D17,D22,D23,D41,D42	Telcordia Issue 1	Level I		6.00	0.023950	.8792	41754194.40

**AAEON Reliability Prediction Report**

**Part Number** 969794550B-D  
**Reference Des**  
**Date** 05. 5, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** TF-FOX-81HTT-A1-1011.RPJ  
**Time** 10:03  
**Failure Rate** 16.343579  
**MTBF** 61,186

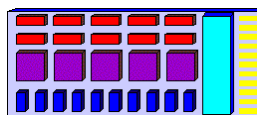
Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1301002240	Semiconductor	D34	Telcordia Issue 1	Level I		1.00	0.023950	.1465	41754194.40
1301005442	Semiconductor	D36,D45,D46	Telcordia Issue 1	Level I		3.00	0.023950	.4396	41754194.40
1305099140	Semiconductor	D38,D39	Telcordia Issue 1	Level I		2.00	0.079832	.9769	12526258.32
1300001440	Semiconductor	D43,D44	Telcordia Issue 1	Level I		2.00	0.023950	.2931	41754194.40
1212306035	Inductor	FB1,FB2,FB39,FB4, FB40,FB5,FB6,FB7, FB8,FB9	Telcordia Issue 1	Level I		10.00	0.002272	.1390	440111121.05
1212306030	Inductor	FB10,FB13,FB14, FB15,FB16,FB3,FB30, FB31,FB33,FB34, FB35,FB37,FB38, FB41,FB42,FB43	Telcordia Issue 1	Level I		16.00	0.002272	.2224	440111121.05
121230603Z	Inductor	FB11,FB12,FB32	Telcordia Issue 1	Level I		3.00	0.002272	.0417	440111121.05
121230603D	Inductor	FB17,FB19,FB21	Telcordia Issue 1	Level I		3.00	0.002272	.0417	440111121.05
12123C0006	Inductor	FB18,FB20	Telcordia Issue 1	Level I		2.00	0.002272	.0278	440111121.05
12123C0007	Inductor	FB22,FB23	Telcordia Issue 1	Level I		2.00	0.002272	.0278	440111121.05
12123B0006	Inductor	FB36	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
1752001601	Miscellaneous	FS1,FS3	Telcordia Issue 1	Level I		2.00	0.003000	.0367	333333333.33
121110336L	Inductor	L1,L11	Telcordia Issue 1	Level I		2.00	0.086342	1.0566	11581871.61
121110100P	Inductor	L2,L3	Telcordia Issue 1	Level I		2.00	0.086342	1.0566	11581871.61
1212308054	Inductor	L5	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
121110226C	Inductor	L8	Telcordia Issue 1	Level I	44.90	1.00	0.185389	1.1343	5394062.42
121110156A	Inductor	L7	Telcordia Issue 1	Level I	28.30	1.00	0.143228	.8764	6981860.78
121110156A	Inductor	L4	Telcordia Issue 1	Level I		1.00	0.086342	.5283	11581871.61
1211100102	Inductor	L10,L9	Telcordia Issue 1	Level I		2.00	0.086342	1.0566	11581871.61
1654262300	Connection	MPCI1	Telcordia Issue 1	Level I		1.00	0.070922	.4339	14100028.66
1315700212	Semiconductor	Q10,Q12,Q15,Q23, Q24,Q25,Q26,Q27,Q3, Q32,Q33,Q35,Q4,Q5, Q6,Q7,Q8,Q9	Telcordia Issue 1	Level I		18.00	0.079832	8.7923	12526258.32
1315230300	Semiconductor	Q2	Telcordia Issue 1	Level I		1.00	0.079832	.4885	12526258.32
1310390410	Semiconductor	Q11,Q13,Q28	Telcordia Issue 1	Level I		3.00	0.023950	.4396	41754194.40
1311390610	Semiconductor	Q14,Q31	Telcordia Issue 1	Level I		2.00	0.023950	.2931	41754194.40
1315230114	Semiconductor	Q18	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
1311138610	Semiconductor	Q19,Q20,Q21,Q22	Telcordia Issue 1	Level I		4.00	0.023950	.5862	41754194.40
1315030110	Semiconductor	Q29,Q30,Q34	Telcordia Issue 1	Level I		3.00	0.000000	.0000	.00
1540782282	Resistor	RP1,RP10,RP2,RP8, RP9	Telcordia Issue 1	Level I		5.00	0.012549	.3839	79686328.81
1540710280	Resistor	RP3,RP4	Telcordia Issue 1	Level I		2.00	0.006275	.0768	159372657.61
1540733085	Resistor	RP11,RP5,RP6	Telcordia Issue 1	Level I		3.00	0.006275	.1152	159372657.61
106B501032	Resistor	RT1,RT2,RT5	Telcordia Issue 1	Level I		3.00	0.011439	.2100	87420177.69





### AAEON Reliability Prediction Report

**Part Number** 969794550B-D  
**Reference Des**  
**Date** 05. 5, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** TF-FOX-81HTT-A1-1011.RPJ  
**Time** 10:03  
**Failure Rate** 16.343579  
**MTBF** 61,186

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A703309	Resistor	R231,R36,R366,R374, R376,R38,R402,R461, R489,R505,R509, R516,R518,R519, R529,R71,R74,R78, R81,R82,R83,R97	Telcordia Issue 1	Level I		22.00	0.002272	.3059	440111121.05
105A708229	Resistor	R42,R434,R437,R440, R444,R447,R451, R456,R477,R52,R72, R73,R75	Telcordia Issue 1	Level I		13.00	0.002272	.1807	440111121.05
105A710053	Resistor	R387,R43,R87	Telcordia Issue 1	Level I		3.00	0.013633	.2502	73351853.51
105A522663	Resistor	R58	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A703909	Resistor	R126,R127,R62,R63, R65,R67,R68,R69, R70	Telcordia Issue 1	Level I		9.00	0.002272	.1251	440111121.05
105A701053	Resistor	R418,R488,R76	Telcordia Issue 1	Level I		3.00	0.002272	.0417	440111121.05
105A733033	Resistor	R77	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A701009	Resistor	R112,R267,R287, R378,R379,R385, R397,R460,R84	Telcordia Issue 1	Level I		9.00	0.002272	.1251	440111121.05
105A501039	Resistor	R108,R109,R110, R195,R196,R248, R253,R260,R272, R526,R545,R91,R92, R93	Telcordia Issue 1	Level I		14.00	0.002272	.1946	440111121.05
105A549903	Resistor	R102,R154	Telcordia Issue 1	Level I		2.00	0.002272	.0278	440111121.05
105A513033	Resistor	R116,R139	Telcordia Issue 1	Level I		2.00	0.002272	.0278	440111121.05
105A530123	Resistor	R136	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A510009	Resistor	R140,R147,R266, R273,R274,R291, R317,R333,R396, R429,R454,R458, R459,R527	Telcordia Issue 1	Level I		14.00	0.002272	.1946	440111121.05
105A706809	Resistor	R143	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A701539	Resistor	R146	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A702209	Resistor	R151,R494,R495	Telcordia Issue 1	Level I		3.00	0.002272	.0417	440111121.05
105A554969	Resistor	R152,R180,R281, R316	Telcordia Issue 1	Level I		4.00	0.002272	.0556	440111121.05
105A702033	Resistor	R155,R507	Telcordia Issue 1	Level I		2.00	0.002272	.0278	440111121.05
105A703903	Resistor	R157,R158	Telcordia Issue 1	Level I		2.00	0.002272	.0278	440111121.05
105A702229	Resistor	R163,R164,R299, R305,R306,R380, R462,R481,R491, R492,R500,R501, R508	Telcordia Issue 1	Level I		13.00	0.002272	.1807	440111121.05
105A580663	Resistor	R174,R175	Telcordia Issue 1	Level I		2.00	0.002272	.0278	440111121.05
105A527463	Resistor	R181,R289	Telcordia Issue 1	Level I		2.00	0.002272	.0278	440111121.05



### AAEON Reliability Prediction Report

**Part Number** 969794550B-D  
**Reference Des**  
**Date** 05. 5, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** TF-FOX-81HTT-A1-1011.RPJ  
**Time** 10:03  
**Failure Rate** 16.343579  
**MTBF** 61,186

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A502033	Resistor	R212	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A702263	Resistor	R213,R235	Telcordia Issue 1	Level I		2.00	0.002272	.0278	440111121.05
105A700003	Resistor	R214,R215,R219, R238,R241,R313, R314,R368,R423	Telcordia Issue 1	Level I		9.00	0.002272	.1251	440111121.05
105A500239	Resistor	R221,R254,R257, R265	Telcordia Issue 1	Level I		4.00	0.002272	.0556	440111121.05
105A532413	Resistor	R222	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A501623	Resistor	R224	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A510213	Resistor	R226	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A733009	Resistor	R227,R228,R269, R432,R465,R528	Telcordia Issue 1	Level I		6.00	0.002272	.0834	440111121.05
105A705133	Resistor	R233	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A511313	Resistor	R234	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A705139	Resistor	R246,R247,R255, R256	Telcordia Issue 1	Level I		4.00	0.002272	.0556	440111121.05
105A507509	Resistor	R249,R252,R262	Telcordia Issue 1	Level I		3.00	0.002272	.0417	440111121.05
105A501523	Resistor	R282	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A525503	Resistor	R283	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A522103	Resistor	R293,R319,R525	Telcordia Issue 1	Level I		3.00	0.002272	.0417	440111121.05
105A549919	Resistor	R297,R365,R393, R400,R422,R428, R446	Telcordia Issue 1	Level I		7.00	0.002272	.0973	440111121.05
105A501633	Resistor	R301	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A518223	Resistor	R302	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A520003	Resistor	R320	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
1050547004	Resistor	R332,R341,R347, R468	Telcordia Issue 1	Level I		4.00	0.002272	.0556	440111121.05
105A503033	Resistor	R349	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A506823	Resistor	R350,R351	Telcordia Issue 1	Level I		2.00	0.002272	.0278	440111121.05
105A551113	Resistor	R398	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A502833	Resistor	R404	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A501233	Resistor	R406	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A512033	Resistor	R430	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A568123	Resistor	R436	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
1189615151	Capacitor	TC1,TC12,TC15,TC19, TC22,TC24,TC26, TC29,TC4	Telcordia Issue 1	Level I		9.00	0.004544	.2502	220055560.52
1189922180	Capacitor	TC18,TC2,TC25,TC7, TC8	Telcordia Issue 1	Level I		5.00	0.004544	.1390	220055560.52
1189647180	Capacitor	TC14,TC3,TC5,TC6	Telcordia Issue 1	Level I		4.00	0.004544	.1112	220055560.52
1189633160	Capacitor	TC11,TC13,TC16, TC20,TC21,TC9	Telcordia Issue 1	Level I		6.00	0.004544	.1668	220055560.52
1189633181	Capacitor	TC27,TC28	Telcordia Issue 1	Level I		2.00	0.004544	.0556	220055560.52



**AAEON Reliability Prediction Report**

**Part Number** 969794550B-D  
**Reference Des**  
**Date** 05. 5, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** TF-FOX-81HTT-A1-1011.RPJ  
**Time** 10:03  
**Failure Rate** 16.343579  
**MTBF** 61,186

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
11B9710050	Capacitor	C10,C13,C133,C138, C2,C204,C225,C227, C256,C270,C275, C276,C279,C281,C3, C30,C332,C333,C343, C350,C354,C377, C383,C391,C415, C423,C425,C43,C446, C462,C464,C476, C482,C486,C49,C492, C498,C531,C532, C538,C541,C543, C556,C558,C560,	Telcordia Issue 1	Level I		48.00	0.004544	1.3346	220055560.52
11E9510050	Capacitor	C109,C110,C144, C153,C155,C187, C199,C200,C201, C202,C203,C210, C236,C237,C238, C239,C240,C247, C248,C527	Telcordia Issue 1	Level I		20.00	0.004544	.5561	220055560.52
1315662810	Semiconductor	U19	Telcordia Issue 1	Level I	42.70	1.00	0.233373	1.4279	4284991.36
1315662810	Semiconductor	U20,U50	Telcordia Issue 1	Level I		2.00	0.079832	.9769	12526258.32
1315662210	Semiconductor	U21	Telcordia Issue 1	Level I		1.00	0.079832	.4885	12526258.32
165300420L	Connection	CN21	Telcordia Issue 1	Level I		1.00	0.004576	.0280	218550444.24
11E9610190	Capacitor	C278	Telcordia Issue 1	Level I		1.00	0.004544	.0278	220055560.52
1075502570	Capacitor	R285	Telcordia Issue 1	Level I		1.00	0.005469	.0335	182842274.63
11E1622060	Capacitor	C397,C481	Telcordia Issue 1	Level I		2.00	0.004544	.0556	220055560.52
105A501129	Resistor	R540	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
14S4195710	Integrated Circuit	U52,U53	Telcordia Issue 1	Level I		2.00	0.059802	.7318	16721916.86
1121733780	Capacitor	C563	Telcordia Issue 1	Level I		1.00	0.005469	.0335	182842274.63
1121747780	Capacitor	C564	Telcordia Issue 1	Level I		1.00	0.004544	.0278	220055560.52
1129522790	Capacitor	C91	Telcordia Issue 1	Level I		1.00	0.004544	.0278	220055560.52
105A701529	Resistor	R270	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A703329	Resistor	R271	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
105A700109	Resistor	R321,R322,R323, R324	Telcordia Issue 1	Level I		4.00	0.002272	.0556	440111121.05
1752000501	Miscellaneous	FS5	Telcordia Issue 1	Level I		1.00	0.003000	.0184	333333333.33
14S6294550	Integrated Circuit	U3	Telcordia Issue 1	Level I	39.90	1.00	2.568081	15.7131	389395.79
105A501033	Resistor	Q1(S-D)	Telcordia Issue 1	Level I		1.00	0.002272	.0139	440111121.05
11E9622050	Capacitor	C183,C194,C339, C355,C384,C424, C463	Telcordia Issue 1	Level I		7.00	0.004544	.1946	220055560.52

### AAEON Reliability Prediction Report

**Part Number** 969794550B-D  
**Reference Des**  
**Date** 05. 5, 2011  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** TF-FOX-81HTT-A1-1011.RPJ  
**Time** 10:03  
**Failure Rate** 16.343579  
**MTBF** 61,186

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1189633193	Capacitor	TC10	Telcordia Issue 1	Level I		1.00	0.004544	.0278	220055560.52
14S6308002	Integrated Circuit	U35	Telcordia Issue 1	Level I		1.00	0.036146	.2212	27665759.41
1654415308	Connection	CN19	Telcordia Issue 1	Level I		1.00	0.008579	.0525	116560236.93
1655902030	Connection	BAT1	Telcordia Issue 1	Level I		1.00	0.001144	.0070	874201776.95
1655306023	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.003432	.0210	291400592.32
1652514209	Connection	CN8	Telcordia Issue 1	Level I		1.00	0.008007	.0490	124885968.14
1653005201	Connection	JP2	Telcordia Issue 1	Level I		1.00	0.005720	.0350	174840355.39
1654907006	Connection	CN11,CN12	Telcordia Issue 1	Level I		2.00	0.004004	.0490	249771936.27
1655305020	Connection	CN14	Telcordia Issue 1	Level I		1.00	0.002860	.0175	349680710.78
1654409103	Connection	CN15	Telcordia Issue 1	Level I		1.00	0.128689	.7874	7770682.46
1655306020	Connection	CN22	Telcordia Issue 1	Level I		1.00	0.003432	.0210	291400592.32
1656304022	Connection	CN24	Telcordia Issue 1	Level I		1.00	0.002288	.0140	437100888.47
1655003010	Connection	CN25	Telcordia Issue 1	Level I		1.00	0.001716	.0105	582801184.63
1655004011	Connection	CN26	Telcordia Issue 1	Level I		1.00	0.022878	.1400	43710088.85
1653003101	Connection	JP1,JP4,JP5	Telcordia Issue 1	Level I		3.00	0.001716	.0315	582801184.63
1653002101	Connection	JP3	Telcordia Issue 1	Level I		1.00	0.001144	.0070	874201776.95
1653003201	Connection	JP6	Telcordia Issue 1	Level I		1.00	0.001144	.0070	874201776.95
175910000B	Miscellaneous	SP1	Telcordia Issue 1	Level I		1.00	0.150000	.9178	6666666.67
175011901M	Miscellaneous	BAT1	Telcordia Issue 1	Level I		1.00	0.900000	5.5067	1111111.11
1654808309	Connection	CN4	Telcordia Issue 1	Level I		1.00	0.001144	.0070	874201776.95