

FOX-121

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 16.027347 ppm MTBF: 62,393 Hours
---------	---

Issue date	Approval	Test Engineer
2011/08/25	Jansin Lee	Matthew Chi

Reliability Prediction (MTBF)

I . Model Name: TF-FOX-121HTT-A1-1010

II . Prediction Date: August. 25, 2011

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

IV . Predicted by: Matthew Chi

V . Equipment: Relex Ver.7.3 Visual Reliability Software

VI. Simulation Environment:

- Temperature: 25.0 degrees C
- Standard: Telcordia (Bellcore) Standard

VII. Term and Definition:

- Unit : An assembly of device.
- Duty Cycle : Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure rate is to be calculated based the selected Calculation models. The multiplier is 1,000,000.
- MTBF : MTBF is always specified in hours.

VIII. Prediction Result:

TF-FOX-121HTT-A1-1010: (Without component temperature rise)

- Failure Rate: 16.027347ppm
- MTBF: 62,393Hours

Below components value were provided by the suppliers:

- (TF) TFT LCD.12.1".AUO.G121XN01 V0.LVDS 18&24Bits.500 nits;EE-A101650;LG121XN010;TWN
MTBF: 50,000 hours
- (TF)1GB.DDRII SODIMM.667MHz.200pin.-40°C~85°C .Innodisk.M2SJ-1GPF5W05-B
MTBF: 5,481,138 hours

AAEON Reliability Prediction Report

Part Number TF-FOX-121HTT-A1-1010
Reference Des
Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name TF-FOX-121HTT-A1-1010.RPJ
Time 13:50
Failure Rate 16.027347
MTBF 62,393

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
System	TF-FOX-121HTT-- A1-1010	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	16.03	62393.36
Power Board	9697P02D13-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	1.79	557801.62
I/O Board	9697T10205-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	1.31	761768.29
Swich Board	9697T10300-DIP	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	.03	33799241.18
GENE-9455 A1.0	969794550X-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	12.89	77565.84

AAEON Reliability Prediction Report

Part Number 9697P02D13-D
Reference Des
Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-FOX-121HTT-A1-1010.RPJ
Time 13:50
Failure Rate 1.792752
MTBF 557,802

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A500133	Resistor	R17	Telcordia Issue 1	Level I		1.00	0.002268	.1265	440974090.03
1124501780	Capacitor	C18	Telcordia Issue 1	Level I		1.00	0.004535	.2530	220487045.01
1124701680	Capacitor	C1, C10, C12, C13, C14, C25, C27, C29, C31, C34, C36, C37, C7	Telcordia Issue 1	Level I		13.00	0.004535	3.2888	220487045.01
1124510280	Capacitor	C16, C17, C2, C24	Telcordia Issue 1	Level I		4.00	0.004535	1.0119	220487045.01
1124522180	Capacitor	C3	Telcordia Issue 1	Level I		1.00	0.004535	.2530	220487045.01
1124410180	Capacitor	C19, C21, C4	Telcordia Issue 1	Level I		3.00	0.004535	.7590	220487045.01
1122722780	Capacitor	C5	Telcordia Issue 1	Level I		1.00	0.004535	.2530	220487045.01
1129747650	Capacitor	C6	Telcordia Issue 1	Level I		1.00	0.004535	.2530	220487045.01
1121610060	Capacitor	C11, C30	Telcordia Issue 1	Level I		2.00	0.004535	.5060	220487045.01
1124518180	Capacitor	C15, C23	Telcordia Issue 1	Level I		2.00	0.004535	.5060	220487045.01
1124515281	Capacitor	C20	Telcordia Issue 1	Level I		1.00	0.004535	.2530	220487045.01
1121733780	Capacitor	C26	Telcordia Issue 1	Level I		1.00	0.004535	.2530	220487045.01
1129547661	Capacitor	C28	Telcordia Issue 1	Level I		1.00	0.004535	.2530	220487045.01
1301003640	Semiconductor	D1, D2, D3, D4, D5, D6, D7	Telcordia Issue 1	Level I		7.00	0.023881	9.3246	41874327.58
121230805H	Inductor	L4, L5, L6	Telcordia Issue 1	Level I		3.00	0.002268	.3795	440974090.03
1315700212	Semiconductor	Q1	Telcordia Issue 1	Level I		1.00	0.079603	4.4403	12562298.27
1315567010	Semiconductor	Q2, Q3, Q4, Q6, Q7, Q8, Q9	Telcordia Issue 1	Level I		7.00	0.159207	62.1640	6281149.14
105A701053	Resistor	R1, R20, R9	Telcordia Issue 1	Level I		3.00	0.002268	.3795	440974090.03
105A704733	Resistor	R2	Telcordia Issue 1	Level I		1.00	0.002268	.1265	440974090.03
105A501033	Resistor	R13, R3	Telcordia Issue 1	Level I		2.00	0.002268	.2530	440974090.03
105A515433	Resistor	R5	Telcordia Issue 1	Level I		1.00	0.002268	.1265	440974090.03
1059701133	Resistor	R4	Telcordia Issue 1	Level I		1.00	0.002268	.1265	440974090.03
105A705153	Resistor	R6, R7	Telcordia Issue 1	Level I		2.00	0.013606	1.5179	73495681.67
1059700101	Resistor	R8	Telcordia Issue 1	Level I		1.00	0.002268	.1265	440974090.03
105A510033	Resistor	R12, R19	Telcordia Issue 1	Level I		2.00	0.002268	.2530	440974090.03
105A518223	Resistor	R11, R18	Telcordia Issue 1	Level I		2.00	0.002268	.2530	440974090.03
105A700003	Resistor	R14, R15, R24	Telcordia Issue 1	Level I		3.00	0.002268	.3795	440974090.03
105A508263	Resistor	R16	Telcordia Issue 1	Level I		1.00	0.002268	.1265	440974090.03
105A701003	Resistor	R21	Telcordia Issue 1	Level I		1.00	0.002268	.1265	440974090.03
1054600289	Resistor	R22, R23	Telcordia Issue 1	Level I		2.00	0.002268	.2530	440974090.03
1315177810	Semiconductor	U1	Telcordia Issue 1	Level I		1.00	0.079603	4.4403	12562298.27
1189615151	Capacitor	C35, C38	Telcordia Issue 1	Level I		2.00	0.004535	.5060	220487045.01
14S3372801	Integrated Circuit	U2	Telcordia Issue 1	Level I		1.00	0.059366	3.3114	16844654.92
11B4747660	Capacitor	C32, C33, C8, C9	Telcordia Issue 1	Level I		4.00	0.004535	1.0119	220487045.01
1124556280	Capacitor	C22	Telcordia Issue 1	Level I		1.00	0.004535	.2530	220487045.01

AAEON Reliability Prediction Report

Part Number 9697T10205-D
Reference Des
Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

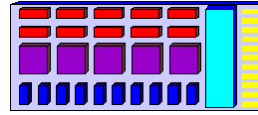


Description
File Name TF-FOX-121HTT-A1-1010.RPJ
Time 13:50
Failure Rate 1.312735
MTBF 761,768

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	0.004535	5.8734	220487045.01
1121701050	Capacitor	C5	Telcordia Issue 1	Level I		1.00	0.004535	.3455	220487045.01
1129610051	Capacitor	C11	Telcordia Issue 1	Level I		1.00	0.004535	.3455	220487045.01
1122501780	Capacitor	C23,C24,C25,C26, C27	Telcordia Issue 1	Level I		5.00	0.004535	1.7275	220487045.01
1304101340	Semiconductor	D1	Telcordia Issue 1	Level I		1.00	0.004877	.3715	205063180.81
1301005441	Semiconductor	D2,D4,D5,D6,D7,D8	Telcordia Issue 1	Level I		6.00	0.023881	10.9151	41874327.58
1302005642	Semiconductor	D3	Telcordia Issue 1	Level I		1.00	0.027212	2.0730	36747840.84
1212306030	Inductor	FB1,FB2,FB3,FB4, FB5	Telcordia Issue 1	Level I		5.00	0.002268	.8637	440974090.03
105A701033	Resistor	R1,R10,R17,R18,R19, R2,R23,R24,R26,R27, R3,R36,R41,R44	Telcordia Issue 1	Level I		14.00	0.002268	2.4185	440974090.03
105A722003	Resistor	R4	Telcordia Issue 1	Level I		1.00	0.002268	.1727	440974090.03
1059700001	Resistor	R14	Telcordia Issue 1	Level I		1.00	0.002268	.1727	440974090.03
105A700003	Resistor	R16	Telcordia Issue 1	Level I		1.00	0.002268	.1727	440974090.03
105A500133	Resistor	R21,R22	Telcordia Issue 1	Level I		2.00	0.002268	.3455	440974090.03
105A702033	Resistor	R25,R32	Telcordia Issue 1	Level I		2.00	0.002268	.3455	440974090.03
105A504723	Resistor	R28	Telcordia Issue 1	Level I		1.00	0.002268	.1727	440974090.03
105A705123	Resistor	R29,R31	Telcordia Issue 1	Level I		2.00	0.002268	.3455	440974090.03
105A710003	Resistor	R30,R33,R34,R38, R40,R43	Telcordia Issue 1	Level I		6.00	0.002268	1.0365	440974090.03
105A530163	Resistor	R35,R37,R39,R42, R45,R46	Telcordia Issue 1	Level I		6.00	0.002268	1.0365	440974090.03
14S5A00401	Integrated Circuit	U2	Telcordia Issue 1	Level I		1.00	0.026183	1.9945	38193355.79
14S5A12509	Integrated Circuit	U3	Telcordia Issue 1	Level I		1.00	0.026183	1.9945	38193355.79
14S3522800	Integrated Circuit	U4	Telcordia Issue 1	Level I		1.00	0.070411	5.3637	14202225.56
1314880511	Integrated Circuit	U5	Telcordia Issue 1	Level I		1.00	0.059366	4.5223	16844654.92
14S4268302	Integrated Circuit	U6	Telcordia Issue 1	Level I		1.00	0.026183	1.9945	38193355.79
14S4020202	Integrated Circuit	U7	Telcordia Issue 1	Level I		1.00	0.059366	4.5223	16844654.92
14S4045802	Integrated Circuit	U8	Telcordia Issue 1	Level I		1.00	0.059366	4.5223	16844654.92
14S6336600	Integrated Circuit	U9	Telcordia Issue 1	Level I		1.00	0.022943	1.7477	43586356.53
1315155510	Semiconductor	U10,U11,U12	Telcordia Issue 1	Level I		3.00	0.159207	36.3835	6281149.14
11C1522650	Capacitor	C2	Telcordia Issue 1	Level I		1.00	0.004535	.3455	220487045.01
14S5977400	Integrated Circuit	U1	Telcordia Issue 1	Level I		1.00	0.070411	5.3637	14202225.56
1655302020	Connection	CN1,CN4	Telcordia Issue 1	Level I		2.00	0.001138	.1734	878780270.71
1655304020	Connection	CN2,CN5,CN6,CN7, CN8	Telcordia Issue 1	Level I		5.00	0.001138	.4334	878780270.71
1655305020	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.001138	.0867	878780270.71
1653005100	Connection	CN9	Telcordia Issue 1	Level I		1.00	0.001138	.0867	878780270.71

AAEON Reliability Prediction Report

Part Number 9697T10300-DIP
Reference Des
Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

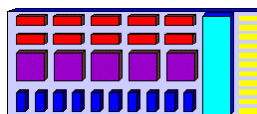


Description
File Name TF-FOX-121HTT-A1-1010.RPJ
Time 13:50
Failure Rate 0.029586
MTBF 33,799,241

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1655302020	Connection		Telcordia Issue 1	Level I		1.00	0.028449	96.1538	35151210.83
1601000300	Connection		Telcordia Issue 1	Level I		1.00	0.001138	3.8462	878780270.71

AAEON Reliability Prediction Report

Part Number 969794550X-D
Reference Des
Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-FOX-121HTT-A1-1010.RPJ
Time 13:50
Failure Rate 12.892273
MTBF 77,566

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	0.002268	.0176	440974090.03
105A542213	Resistor	R544	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
165392521J	Connection	CFD1	Telcordia Issue 1	Level I		1.00	0.028449	.2207	35151210.83
1214309000	Inductor	CH1,CH2,CH3,CH4	Telcordia Issue 1	Level I		4.00	0.002268	.0704	440974090.03
165322220J	Connection	CN6	Telcordia Issue 1	Level I		1.00	0.001138	.0088	878780270.71
1653204208	Connection	CN10	Telcordia Issue 1	Level I		1.00	0.001138	.0088	878780270.71
1654030003	Connection	CN13	Telcordia Issue 1	Level I		1.00	0.001138	.0088	878780270.71
165320520G	Connection	CN16,CN17,CN18, CN20,CN9	Telcordia Issue 1	Level I		5.00	0.001138	.0441	878780270.71
1174522180	Capacitor	CP1,CP2,CP3,CP4, CP5,CP6,CP7,CP8, CP9	Telcordia Issue 1	Level I		9.00	0.005466	.3816	182961702.19
1124410190	Capacitor	C1,C4,C5,C6,C7,C9	Telcordia Issue 1	Level I		6.00	0.004535	.2111	220487045.01
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	0.004535	9.0763	220487045.01
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	0.004535	1.8645	220487045.01
1124522880	Capacitor	C14,C265	Telcordia Issue 1	Level I		2.00	0.004535	.0704	220487045.01
1124568280	Capacitor	C22	Telcordia Issue 1	Level I		1.00	0.004535	.0352	220487045.01
1124547190	Capacitor	C25,C26,C27,C35, C36,C38,C73	Telcordia Issue 1	Level I		7.00	0.004535	.2463	220487045.01

AAEON Reliability Prediction Report

Part Number 969794550X-D
Reference Des
Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-FOX-121HTT-A1-1010.RPJ
Time 13:50
Failure Rate 12.892273
MTBF 77,566

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	0.004535	.4925	220487045.01
1129710090	Capacitor	C157,C180,C186,C197,C32,C37,C502	Telcordia Issue 1	Level I		7.00	0.004535	.2463	220487045.01
1124405090	Capacitor	C344,C45,C47,C55,C59,C61	Telcordia Issue 1			6.00	0.001512	.0704	661461135.04
1124427090	Capacitor	C389,C390,C458,C459,C46,C51,C69,C95,C96,C97,C98	Telcordia Issue 1	Level I		11.00	0.004535	.3870	220487045.01
1121610060	Capacitor	C60	Telcordia Issue 1	Level I		1.00	0.004535	.0352	220487045.01
1129715090	Capacitor	C72	Telcordia Issue 1	Level I		1.00	0.004535	.0352	220487045.01
1129710390	Capacitor	C118,C131,C499,C500,C504,C505,C524,C526,C548,C549,C77,C82	Telcordia Issue 1	Level I		12.00	0.004535	.4222	220487045.01
1129747090	Capacitor	C311,C414,C84,C86,C89	Telcordia Issue 1	Level I		5.00	0.004535	.1759	220487045.01
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	0.004535	.5629	220487045.01
1129722680	Capacitor	C101,C102,C116,C134,C135,C136,C196	Telcordia Issue 1	Level I		7.00	0.004535	.2463	220487045.01
11E1547090	Capacitor	C140	Telcordia Issue 1	Level I		1.00	0.004535	.0352	220487045.01
1129722091	Capacitor	C184,C190,C198,C507,C508,C509	Telcordia Issue 1	Level I		6.00	0.004535	.2111	220487045.01
11B9747490	Capacitor	C226,C264,C274,C306	Telcordia Issue 1	Level I		4.00	0.004535	.1407	220487045.01
1122722890	Capacitor	C254,C272,C291,C298,C301,C303,C304	Telcordia Issue 1	Level I		7.00	0.004535	.2463	220487045.01
1124547290	Capacitor	C316,C318,C322,C323,C370,C371,C400,C401	Telcordia Issue 1	Level I		8.00	0.004535	.2814	220487045.01
1124518280	Capacitor	C404	Telcordia Issue 1	Level I		1.00	0.004535	.0352	220487045.01
16515A0996	Connection	DIMM1	Telcordia Issue 1	Level I		1.00	0.001138	.0088	878780270.71
1304101340	Semiconductor	D1,D19,D2	Telcordia Issue 1	Level I		3.00	0.004877	.1135	205063180.81
1304001340	Semiconductor	D20	Telcordia Issue 1	Level I		1.00	0.004877	.0378	205063180.81
1301005443	Semiconductor	D18,D26,D3,D33,D35,D37,D40	Telcordia Issue 1	Level I		7.00	0.023881	1.2966	41874327.58
1305000140	Semiconductor	D10,D11,D12,D29,D30,D31,D32,D4,D5,D6,D7,D8,D9	Telcordia Issue 1	Level I		13.00	0.079603	8.0268	12562298.27
1301005441	Semiconductor	D13,D14,D28	Telcordia Issue 1	Level I		3.00	0.023881	.5557	41874327.58
1300581940	Semiconductor	D15	Telcordia Issue 1	Level I		1.00	0.079603	.6174	12562298.27
1301053040	Semiconductor	D16,D17,D22,D23,D41,D42	Telcordia Issue 1	Level I		6.00	0.023881	1.1114	41874327.58

AAEON Reliability Prediction Report

Part Number 969794550X-D
Reference Des
Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-FOX-121HTT-A1-1010.RPJ
Time 13:50
Failure Rate 12.892273
MTBF 77,566

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	0.023881	.1852	41874327.58
1301005442	Semiconductor	D36,D45,D46	Telcordia Issue 1	Level I		3.00	0.023881	.5557	41874327.58
1305099140	Semiconductor	D38,D39	Telcordia Issue 1	Level I		2.00	0.079603	1.2349	12562298.27
1300001440	Semiconductor	D43,D44	Telcordia Issue 1	Level I		2.00	0.023881	.3705	41874327.58
1212306035	Inductor	FB1,FB2,FB39,FB4, FB40,FB5,FB6,FB7, FB8,FB9	Telcordia Issue 1	Level I		10.00	0.002268	.1759	440974090.03
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	0.002268	.2814	440974090.03
121230603Z	Inductor	FB11,FB12,FB32	Telcordia Issue 1	Level I		3.00	0.002268	.0528	440974090.03
121230603D	Inductor	FB17,FB19,FB21	Telcordia Issue 1	Level I		3.00	0.002268	.0528	440974090.03
12123C0006	Inductor	FB18,FB20	Telcordia Issue 1	Level I		2.00	0.002268	.0352	440974090.03
12123C0007	Inductor	FB22,FB23	Telcordia Issue 1	Level I		2.00	0.002268	.0352	440974090.03
12123B0006	Inductor	FB36	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
1752001601	Miscellaneous	FS1,FS3	Telcordia Issue 1	Level I		2.00	0.003000	.0465	333333333.33
121110336L	Inductor	L1,L11	Telcordia Issue 1	Level I		2.00	0.086173	1.3368	11604581.32
121110100P	Inductor	L2,L3	Telcordia Issue 1	Level I		2.00	0.086173	1.3368	11604581.32
1212308054	Inductor	L5	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
121110226C	Inductor	L8	Telcordia Issue 1	Level I		1.00	0.086173	.6684	11604581.32
121110156A	Inductor	L4,L7	Telcordia Issue 1	Level I		2.00	0.086173	1.3368	11604581.32
1211100102	Inductor	L10,L9	Telcordia Issue 1	Level I		2.00	0.086173	1.3368	11604581.32
1654262300	Connection	MPC11	Telcordia Issue 1	Level I		1.00	0.028449	.2207	35151210.83
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	0.079603	11.1141	12562298.27
1315230300	Semiconductor	Q2	Telcordia Issue 1	Level I		1.00	0.079603	.6174	12562298.27
1310390410	Semiconductor	Q11,Q13,Q28	Telcordia Issue 1	Level I		3.00	0.023881	.5557	41874327.58
1311390610	Semiconductor	Q14,Q31	Telcordia Issue 1	Level I		2.00	0.023881	.3705	41874327.58
1315230114	Semiconductor	Q18	Telcordia Issue 1	Level I		1.00	0.079603	.6174	12562298.27
1311138610	Semiconductor	Q19,Q20,Q21,Q22	Telcordia Issue 1	Level I		4.00	0.023881	.7409	41874327.58
1315030110	Integrated Circuit	Q29,Q30,Q34	Telcordia Issue 1	Level I		3.00	0.059366	1.3814	16844654.92
1540782282	Resistor	RP1,RP10,RP2,RP8, RP9	Telcordia Issue 1	Level I		5.00	0.007807	.3028	128082217.60
1540710280	Resistor	RP3,RP4	Telcordia Issue 1	Level I		2.00	0.007807	.1211	128082217.60
1540733085	Resistor	RP11,RP5,RP6	Telcordia Issue 1	Level I		3.00	0.007807	.1817	128082217.60
106B501032	Resistor	RT1,RT2,RT5	Telcordia Issue 1	Level I		3.00	0.011379	.2648	87878027.07
106B503331	Resistor	RT3	Telcordia Issue 1	Level I		1.00	0.011379	.0883	87878027.07

AAEON Reliability Prediction Report

Part Number 969794550X-D
Reference Des
Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-FOX-121HTT-A1-1010.RPJ
Time 13:50
Failure Rate 12.892273
MTBF 77,566

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A710039	Resistor	R1,R11,R117,R12, R121,R122,R123,R3, R4,R419,R504,R506, R514,R522,R535,R6, R7,R9	Telcordia Issue 1	Level I		18.00	0.002268	.3166	440974090.03
105A702223	Resistor	R8	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A700139	Resistor	R10,R229,R232,R335, R344,R361,R369,R37, R381,R382,R39,R390, R392,R399,R40,R401, R409,R410,R415, R416,R425,R427, R442,R47,R471,R487, R502,R512,R537, R538,R543,R56,R94	Telcordia Issue 1	Level I		33.00	0.002268	.5805	440974090.03
105A701003	Resistor	R13	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A516513	Resistor	R14	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A500139	Resistor	R15,R237,R258,R261, R263,R276,R279, R288,R292,R300, R318,R331,R542	Telcordia Issue 1	Level I		13.00	0.002268	.2287	440974090.03
105A701039	Resistor	R113,R156,R16,R220, R23,R24,R242,R243, R25,R294,R295,R298, R30,R303,R304,R307, R310,R33,R338,R342, R355,R371,R375, R377,R383,R388, R389,R391,R394, R395,R407,R424, R426,R431,R439, R443,R448,R452, R453,R457,R463, R469,R470,R475,	Telcordia Issue 1	Level I		65.00	0.002268	1.1433	440974090.03
105A700103	Resistor	R17,R18,R441	Telcordia Issue 1	Level I		3.00	0.002268	.0528	440974090.03

AAEON Reliability Prediction Report

Part Number 969794550X-D
Reference Des
Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-FOX-121HTT-A1-1010.RPJ
Time 13:50
Failure Rate 12.892273
MTBF 77,566

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	0.002268	.3870	440974090.03
105A708229	Resistor	R42,R434,R437,R440, R444,R447,R451, R456,R477,R52,R72, R73,R75	Telcordia Issue 1	Level I		13.00	0.002268	.2287	440974090.03
105A710053	Resistor	R387,R43,R87	Telcordia Issue 1	Level I		3.00	0.013606	.3166	73495681.67
105A522663	Resistor	R58	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A703909	Resistor	R126,R127,R62,R63, R65,R67,R68,R69, R70	Telcordia Issue 1	Level I		9.00	0.002268	.1583	440974090.03
105A701053	Resistor	R418,R488,R76	Telcordia Issue 1	Level I		3.00	0.002268	.0528	440974090.03
105A733033	Resistor	R77	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A701009	Resistor	R112,R267,R287, R378,R379,R385, R397,R460,R84	Telcordia Issue 1	Level I		9.00	0.002268	.1583	440974090.03
105A501039	Resistor	R108,R109,R110, R195,R196,R248, R253,R260,R272, R526,R545,R91,R92, R93	Telcordia Issue 1	Level I		14.00	0.002268	.2463	440974090.03
105A549903	Resistor	R102,R154	Telcordia Issue 1	Level I		2.00	0.002268	.0352	440974090.03
105A513033	Resistor	R116,R139	Telcordia Issue 1	Level I		2.00	0.002268	.0352	440974090.03
105A530123	Resistor	R136	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A510009	Resistor	R140,R147,R266, R273,R274,R291, R317,R333,R396, R429,R454,R458, R459,R527	Telcordia Issue 1	Level I		14.00	0.002268	.2463	440974090.03
105A706809	Resistor	R143	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A701539	Resistor	R146	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A702209	Resistor	R151,R494,R495	Telcordia Issue 1	Level I		3.00	0.002268	.0528	440974090.03
105A554969	Resistor	R152,R180,R281, R316	Telcordia Issue 1	Level I		4.00	0.002268	.0704	440974090.03
105A702033	Resistor	R155,R507	Telcordia Issue 1	Level I		2.00	0.002268	.0352	440974090.03
105A703903	Resistor	R157,R158	Telcordia Issue 1	Level I		2.00	0.002268	.0352	440974090.03
105A702229	Resistor	R163,R164,R299, R305,R306,R380, R462,R481,R491, R492,R500,R501, R508	Telcordia Issue 1	Level I		13.00	0.002268	.2287	440974090.03
105A580663	Resistor	R174,R175	Telcordia Issue 1	Level I		2.00	0.002268	.0352	440974090.03
105A527463	Resistor	R181,R289	Telcordia Issue 1	Level I		2.00	0.002268	.0352	440974090.03

AAEON Reliability Prediction Report

Part Number 969794550X-D
Reference Des
Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-FOX-121HTT-A1-1010.RPJ
Time 13:50
Failure Rate 12.892273
MTBF 77,566

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	0.002268	.0176	440974090.03
105A702263	Resistor	R213,R235	Telcordia Issue 1	Level I		2.00	0.002268	.0352	440974090.03
105A700003	Resistor	R214,R215,R219, R238,R241,R313, R314,R368,R423	Telcordia Issue 1	Level I		9.00	0.002268	.1583	440974090.03
105A500239	Resistor	R221,R254,R257, R265	Telcordia Issue 1	Level I		4.00	0.002268	.0704	440974090.03
105A532413	Resistor	R222	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A501623	Resistor	R224	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A510213	Resistor	R226	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A733009	Resistor	R227,R228,R269, R432,R465,R528	Telcordia Issue 1	Level I		6.00	0.002268	.1055	440974090.03
105A705133	Resistor	R233	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A511313	Resistor	R234	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A705139	Resistor	R246,R247,R255, R256	Telcordia Issue 1	Level I		4.00	0.002268	.0704	440974090.03
105A507509	Resistor	R249,R252,R262	Telcordia Issue 1	Level I		3.00	0.002268	.0528	440974090.03
105A501523	Resistor	R282	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A525503	Resistor	R283	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A522103	Resistor	R293,R319,R525	Telcordia Issue 1	Level I		3.00	0.002268	.0528	440974090.03
105A549919	Resistor	R297,R365,R393, R400,R422,R428, R446	Telcordia Issue 1	Level I		7.00	0.002268	.1231	440974090.03
105A501633	Resistor	R301	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A518223	Resistor	R302	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A520003	Resistor	R320	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
1050547004	Resistor	R332,R341,R347, R468	Telcordia Issue 1	Level I		4.00	0.002268	.0704	440974090.03
105A503033	Resistor	R349	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A506823	Resistor	R350,R351	Telcordia Issue 1	Level I		2.00	0.002268	.0352	440974090.03
105A551113	Resistor	R398	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A502833	Resistor	R404	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A501233	Resistor	R406	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A512033	Resistor	R430	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A568123	Resistor	R436	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
1189615151	Capacitor	TC1,TC12,TC15,TC19, TC22,TC24,TC26, TC29,TC4	Telcordia Issue 1	Level I		9.00	0.004535	.3166	220487045.01
1189922180	Capacitor	TC18,TC2,TC25,TC7, TC8	Telcordia Issue 1	Level I		5.00	0.004535	.1759	220487045.01
1189647180	Capacitor	TC14,TC3,TC5,TC6	Telcordia Issue 1	Level I		4.00	0.004535	.1407	220487045.01
1189633160	Capacitor	TC11,TC13,TC16, TC20,TC21,TC9	Telcordia Issue 1	Level I		6.00	0.004535	.2111	220487045.01
1189633181	Capacitor	TC27,TC28	Telcordia Issue 1	Level I		2.00	0.004535	.0704	220487045.01

AAEON Reliability Prediction Report

Part Number 969794550X-D
Reference Des
Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-FOX-121HTT-A1-1010.RPJ
Time 13:50
Failure Rate 12.892273
MTBF 77,566

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	0.004535	1.6886	220487045.01
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	0.004535	.7036	220487045.01
1315662810	Semiconductor	U19,U20,U50	Telcordia Issue 1	Level I		3.00	0.079603	1.8523	12562298.27
1315662210	Semiconductor	U21	Telcordia Issue 1	Level I		1.00	0.079603	.6174	12562298.27
165300420L	Connection	CN21	Telcordia Issue 1	Level I		1.00	0.001138	.0088	878780270.71
11E9610190	Capacitor	C278	Telcordia Issue 1	Level I		1.00	0.004535	.0352	220487045.01
1075502570	Resistor	R285	Telcordia Issue 1	Level I		1.00	0.013606	.1055	73495681.67
11E1622060	Capacitor	C397,C481	Telcordia Issue 1	Level I		2.00	0.004535	.0704	220487045.01
105A501129	Resistor	R540	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
14S4195710	Integrated Circuit	U52,U53	Telcordia Issue 1	Level I		2.00	0.026183	.4062	38193355.79
1121733780	Capacitor	C563	Telcordia Issue 1	Level I		1.00	0.004535	.0352	220487045.01
1121747780	Capacitor	C564	Telcordia Issue 1	Level I		1.00	0.004535	.0352	220487045.01
1129522790	Capacitor	C91	Telcordia Issue 1	Level I		1.00	0.004535	.0352	220487045.01
105A701529	Resistor	R270	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A703329	Resistor	R271	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
105A700109	Resistor	R321,R322,R323, R324	Telcordia Issue 1	Level I		4.00	0.002268	.0704	440974090.03
1752000501	Miscellaneous	FS5	Telcordia Issue 1	Level I		1.00	0.003000	.0233	33333333.33
14S6294550	Integrated Circuit	U3	Telcordia Issue 1	Level I		1.00	0.022943	.1780	43586356.53
105A501033	Resistor	Q1(S-D)	Telcordia Issue 1	Level I		1.00	0.002268	.0176	440974090.03
11E9622050	Capacitor	C183,C194,C339, C355,C384,C424, C463	Telcordia Issue 1	Level I		7.00	0.004535	.2463	220487045.01
1189633193	Capacitor	TC10	Telcordia Issue 1	Level I		1.00	0.004535	.0352	220487045.01

AAEON Reliability Prediction Report

Part Number 969794550X-D
Reference Des
Date 08. 30, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-FOX-121HTT-A1-1010.RPJ
Time 13:50
Failure Rate 12.892273
MTBF 77,566

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
14S6308002	Integrated Circuit	U35	Telcordia Issue 1	Level I		1.00	0.022943	.1780	43586356.53
1654415308	Connection	CN19	Telcordia Issue 1	Level I		1.00	0.001138	.0088	878780270.71
1655902030	Connection	BAT1	Telcordia Issue 1	Level I		1.00	0.001138	.0088	878780270.71
1655306023	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.001138	.0088	878780270.71
1652514209	Connection	CN8	Telcordia Issue 1	Level I		1.00	0.001138	.0088	878780270.71
1653005201	Connection	JP2	Telcordia Issue 1	Level I		1.00	0.001138	.0088	878780270.71
1654907006	Connection	CN11,CN12	Telcordia Issue 1	Level I		2.00	0.001138	.0177	878780270.71
1655305020	Connection	CN14	Telcordia Issue 1	Level I		1.00	0.001138	.0088	878780270.71
1654409103	Connection	CN15	Telcordia Issue 1	Level I		1.00	0.001138	.0088	878780270.71
1655306020	Connection	CN22	Telcordia Issue 1	Level I		1.00	0.001138	.0088	878780270.71
1656304022	Connection	CN24	Telcordia Issue 1	Level I		1.00	0.001138	.0088	878780270.71
1655003010	Connection	CN25	Telcordia Issue 1	Level I		1.00	0.001138	.0088	878780270.71
1655004011	Connection	CN26	Telcordia Issue 1	Level I		1.00	0.001138	.0088	878780270.71
1653003101	Connection	JP1,JP4,JP5	Telcordia Issue 1	Level I		3.00	0.001138	.0265	878780270.71
1653002101	Connection	JP3	Telcordia Issue 1	Level I		1.00	0.001138	.0088	878780270.71
1653003201	Connection	JP6	Telcordia Issue 1	Level I		1.00	0.001138	.0088	878780270.71
1653300102	Connection	JP1(1-2),JP3(1-2) ? , JP4(2-3),JP5(2-3), JP6(5-6)	Telcordia Issue 1	Level I		5.00	0.001138	.0441	878780270.71
175910000B	Miscellaneous	SP1	Telcordia Issue 1	Level I		1.00	0.150000	1.1635	6666666.67
175011901M	Miscellaneous	BAT1	Telcordia Issue 1	Level I		1.00	0.900000	6.9809	1111111.11
1653300107	Connection	CN22(4-5)	Telcordia Issue 1	Level I		1.00	0.001138	.0088	878780270.71
1654808309	Connection	CN4	Telcordia Issue 1	Level I		1.00	0.001138	.0088	878780270.71
1653900039	Connection	CFD1	Telcordia Issue 1	Level I		1.00	0.001138	.0088	878780270.71