

FOX-122 Reliability Prediction Report (MTBF)

Report NO : 09P070008

05-26-2009

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** TF-FOX-122HTT-A1-1010

II . **Prediction Date:** May 26, 2009

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: 24.8 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-122HTT-A1-1010 (Not include Touch, LCD, Inverter and memory):
Failure Rate: 18.255682 ppm
MTBF: 54,777 Hours
- Below components MTBF value were provided by the suppliers:
Touch: (TF)TouchScreen.12".5 Wire.Resistive.ABON.AT-121F-5RB-018N-16R-150FH
- Knock Test: 35,000,000 times

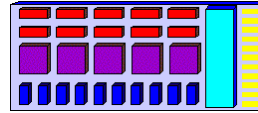
LCD: (TF) TFT LCD.12.1".Sharp.w/o Polarizer.with R-Film.Twinwill.EE010000100C0R
- Lifetime: 50,000 hrs (IL= 6.0mArms)

Inverter: (TF)INVERTER.DC to AC.12V.2 LAMP.ATBEL.AB-A502-14M
- MTBF: 30,000 hours

Memory: (TF)1G DDRII 667MHZ.200PIN ELPIDA(64MX8).E5108A(X)-6E-E.DSL.
DDRII1G200ELP667G
- MTBF: 6.26×10^6 hours/error

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 05. 26, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80

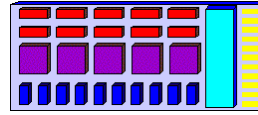


Description Top-level assembly
File Name TF-FOX-122HTT-A1-1010.RPJ
Time 10:50 上午
Failure Rate 18.255682
MTBF 54,777

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-FOX-122HTT-A1-1010	System	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	18.26	54777.47
Switch Board T103-A10	9697T10300-DIP	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	3.38e-003	296006222.40
I/O Board T102-A11	9697T10201-DIP	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	1.00	995075.45
POWER BOARD PER-P17D	9697P17D01-DIP	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	1.93	517956.41
GENE-9310-A10	9697931067-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	15.32	65288.26

AAEON Reliability Prediction Report

Part Number 9697T10300-DIP
Reference Des
Date 05. 26, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80

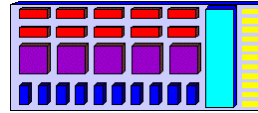


Description
File Name TF-FOX-122HTT-A1-1010.RPJ
Time 10:50 上午
Failure Rate 0.003378
MTBF 296,006,222

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1655302020	Connection	WAFER BOX	Telcordia Issue 1	Level I		1.00	0.001126	33.3333	888018667.20
1601000300	Connection	SWITCH	Telcordia Issue 1	Level I		1.00	0.002252	66.6667	444009333.60

AAEON Reliability Prediction Report

Part Number 9697T10201-DIP
Reference Des
Date 05. 26, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80

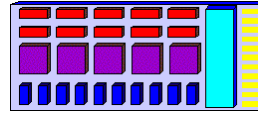


Description
File Name TF-FOX-122HTT-A1-1010.RPJ
Time 10:50 上午
Failure Rate 1.004949
MTBF 995,075

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1174510380	Capacitor	CP1	Telcordia Issue 1	Level I		1.00	0.005458	.5432	183201032.40
1121701080	Capacitor	C1,C2	Telcordia Issue 1	Level I		2.00	0.004518	.8991	221353427.43
1122701680	Capacitor	C11,C12,C13,C3,C4, C8,C9	Telcordia Issue 1	Level I		7.00	0.004518	3.1468	221353427.43
1121733380	Capacitor	C7	Telcordia Issue 1	Level I		1.00	0.004518	.4495	221353427.43
1122501780	Capacitor	C10,C14	Telcordia Issue 1	Level I		2.00	0.004518	.8991	221353427.43
1122747080	Capacitor	C15	Telcordia Issue 1	Level I		1.00	0.004518	.4495	221353427.43
1124420080	Capacitor	C16	Telcordia Issue 1	Level I		1.00	0.004518	.4495	221353427.43
1124401880	Capacitor	C17	Telcordia Issue 1	Level I		1.00	0.004518	.4495	221353427.43
1301005442	Semiconductor	D2,D3	Telcordia Issue 1	Level I		2.00	0.023744	4.7254	42115875.63
1301005441	Semiconductor	D4	Telcordia Issue 1	Level I		1.00	0.027106	2.6972	36892237.91
1213103008	Inductor	LN1, LN2	Telcordia Issue 1	Level I		2.00	0.002259	.4495	442706854.87
121230603K	Inductor	L1,L2,L3,L4	Telcordia Issue 1	Level I		4.00	0.002259	.8991	442706854.87
1315035610	Semiconductor	Q1,Q2,Q3	Telcordia Issue 1	Level I		3.00	0.000000	.0000	.00
1315700211	Semiconductor	Q4,Q5,Q6	Telcordia Issue 1	Level I		3.00	0.079147	23.6271	12634762.69
1540700080	Resistor	RN1,RN2	Telcordia Issue 1	Level I		2.00	0.012378	2.4634	80787269.19
105A701033	Resistor	R1,R10,R11,R13,R14, R4,R7,R9	Telcordia Issue 1	Level I		8.00	0.002259	1.7982	442706854.87
105A722003	Resistor	R6	Telcordia Issue 1	Level I		1.00	0.002259	.2248	442706854.87
105A501323	Resistor	R12	Telcordia Issue 1	Level I		1.00	0.002259	.2248	442706854.87
105A710003	Resistor	R15	Telcordia Issue 1	Level I		1.00	0.002259	.2248	442706854.87
105A710053	Resistor	R18	Telcordia Issue 1	Level I		1.00	0.013553	1.3486	73784475.81
105A710033	Resistor	R20	Telcordia Issue 1	Level I		1.00	0.002259	.2248	442706854.87
105A705123	Resistor	R21,R5	Telcordia Issue 1	Level I		2.00	0.002259	.4495	442706854.87
14S5207402	Integrated Circuit	U1	Telcordia Issue 1	Level I		1.00	0.025095	2.4971	39849147.07
14S8972301	Integrated Circuit	U2	Telcordia Issue 1	Level I		1.00	0.025876	2.5749	38645358.49
14S4689000	Integrated Circuit	U3	Telcordia Issue 1	Level I		1.00	0.058503	5.8215	17093092.17
14S6336600	Integrated Circuit	U4	Telcordia Issue 1	Level I		1.00	0.030217	3.0068	33093947.96
14S1246200	Integrated Circuit	U5	Telcordia Issue 1	Level I		1.00	0.025876	2.5749	38645358.49
14S5A05300	Integrated Circuit	U6	Telcordia Issue 1	Level I		1.00	0.025876	2.5749	38645358.49
14S3522800	Integrated Circuit	U7	Telcordia Issue 1	Level I		1.00	0.058503	5.8215	17093092.17
1655305020	Connection	CN1	Telcordia Issue 1	Level I		1.00	0.002815	.2801	355207466.88
1655302020	Connection	CN2,CN3	Telcordia Issue 1	Level I		2.00	0.001126	.2241	888018667.20
1655304020	Connection	CN4,CN5,CN6,CN8	Telcordia Issue 1	Level I		4.00	0.002252	.8964	444009333.60
1655308021	Connection	CN7	Telcordia Issue 1	Level I		1.00	0.004504	.4482	222004666.80
1653003100	Connection	JP1,JP3	Telcordia Issue 1	Level I		2.00	0.001689	.3362	592012444.80
1231232722	Miscellaneous	Y1	Telcordia Issue 1	Level I		1.00	0.150000	14.9261	6666666.67
1111610194	Capacitor	C5	Telcordia Issue 1	Level I		1.00	0.042229	4.2021	23680497.79

AAEON Reliability Prediction Report

Part Number 9697T10201-DIP
Reference Des
Date 05. 26, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80

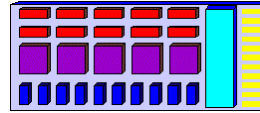


Description
File Name TF-FOX-122HTT-A1-1010.RPJ
Time 10:50 上午
Failure Rate 1.004949
MTBF 995,075

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1653003101	Connection	JP2	Telcordia Issue 1	Level I		1.00	0.001689	.1681	592012444.80
1653005100	Connection	CN9	Telcordia Issue 1	Level I		1.00	0.070381	7.0035	14208298.68

AAEON Reliability Prediction Report

Part Number 9697P17D01-DIP
Reference Des
Date 05. 26, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80

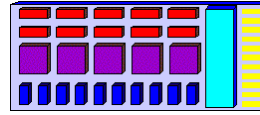


Description
File Name TF-FOX-122HTT-A1-1010.RPJ
Time 10:50 上午
Failure Rate 1.930664
MTBF 517,956

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1053500279	Resistor	CR1,CR2	Telcordia Issue 1	Level I		2.00	0.002259	.2340	442706854.87
1121610060	Capacitor	C1,C2,C3	Telcordia Issue 1	Level I		3.00	0.004518	.7020	221353427.43
11C4501060	Capacitor	C4	Telcordia Issue 1	Level I		1.00	0.004518	.2340	221353427.43
1121547661	Capacitor	C10,C5	Telcordia Issue 1	Level I		2.00	0.004518	.4680	221353427.43
11C1522480	Capacitor	C13,C6	Telcordia Issue 1	Level I		2.00	0.004518	.4680	221353427.43
1122501780	Capacitor	C12,C7	Telcordia Issue 1	Level I		2.00	0.004518	.4680	221353427.43
1124522280	Capacitor	C11	Telcordia Issue 1	Level I		1.00	0.004518	.2340	221353427.43
1124522880	Capacitor	C14	Telcordia Issue 1	Level I		1.00	0.005458	.2827	183201032.40
1189610180	Capacitor	C17	Telcordia Issue 1	Level I		1.00	0.004518	.2340	221353427.43
1124701680	Capacitor	C18,C19,C22,C23,C8	Telcordia Issue 1	Level I		5.00	0.004518	1.1700	221353427.43
1301005442	Semiconductor	D1	Telcordia Issue 1	Level I		1.00	0.023744	1.2298	42115875.63
1301003240	Semiconductor	D2	Telcordia Issue 1	Level I		1.00	0.023744	1.2298	42115875.63
1301003440	Semiconductor	D3	Telcordia Issue 1	Level I		1.00	0.023744	1.2298	42115875.63
1301003640	Semiconductor	D4	Telcordia Issue 1	Level I		1.00	0.023744	1.2298	42115875.63
121110336H	Inductor	L1	Telcordia Issue 1	Level I	52.30	1.00	0.205479	10.6429	4866684.28
1212308054	Inductor	L2,L3,L4	Telcordia Issue 1	Level I		3.00	0.002259	.3510	442706854.87
1315301111	Semiconductor	Q1,Q2,Q3,Q4	Telcordia Issue 1	Level I		4.00	0.079147	16.3978	12634762.69
105A701003	Resistor	R1	Telcordia Issue 1	Level I		1.00	0.002259	.1170	442706854.87
105A534823	Resistor	R4	Telcordia Issue 1	Level I		1.00	0.002259	.1170	442706854.87
105A704723	Resistor	R5	Telcordia Issue 1	Level I		1.00	0.002259	.1170	442706854.87
105A524913	Resistor	R6	Telcordia Issue 1	Level I		1.00	0.002259	.1170	442706854.87
105A502033	Resistor	R7	Telcordia Issue 1	Level I		1.00	0.002259	.1170	442706854.87
105A700003	Resistor	R10,R11,R12,R13, R15,R9	Telcordia Issue 1	Level I		6.00	0.002259	.7020	442706854.87
105A512413	Resistor	R14,R16	Telcordia Issue 1	Level I		2.00	0.002259	.2340	442706854.87
1059710003	Resistor	R17	Telcordia Issue 1	Level I		1.00	0.002259	.1170	442706854.87
105A700333	Resistor	R18	Telcordia Issue 1	Level I		1.00	0.002259	.1170	442706854.87
105A700133	Resistor	R19	Telcordia Issue 1	Level I		1.00	0.002259	.1170	442706854.87
14S3378000	Integrated Circuit	U1	Telcordia Issue 1	Level I	30.80	1.00	0.452065	23.4150	2212070.87
1314257610	Integrated Circuit	U2	Telcordia Issue 1	Level I	30.60	1.00	0.446655	23.1348	2238865.61
1211103301	Inductor	L5	Telcordia Issue 1	Level I		1.00	0.085836	4.4459	11650180.39
1652003101	Connection	CN1	Telcordia Issue 1	Level I		1.00	0.001689	.0875	592012444.80
1655104005	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.002252	.1167	444009333.60
1655004011	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.022522	1.1665	44400933.36
1189618090	Capacitor	EC1,EC2	Telcordia Issue 1	Level I		2.00	0.004518	.4680	221353427.43
1181647110	Capacitor	EC3,EC4	Telcordia Issue 1	Level I		2.00	0.004518	.4680	221353427.43
1111610194	Capacitor	C20	Telcordia Issue 1	Level I		1.00	0.042229	2.1873	23680497.79

AAEON Reliability Prediction Report

Part Number 9697931067-D
Reference Des
Date 05. 26, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80

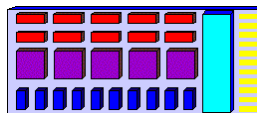


Description
File Name TF-FOX-122HTT-A1-1010.RPJ
Time 10:50 上午
Failure Rate 15.316690
MTBF 65,288

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1189633160	Capacitor	C124,C136,C138, C146,C465,C47,C482, C538,C540,C542, C562,C567,C568, C589,C613,C614, C624,C625,C630, C637,C73,C90	Telcordia Issue 1	Level I		22.00	0.004518	.6489	221353427.43
1124527080	Capacitor	C240,C241,C242, C246,C56,C62	Telcordia Issue 1	Level I		6.00	0.005458	.2138	183201032.40
1129710090	Capacitor	C243,C244,C245, C287,C288,C289,C38, C58,C59	Telcordia Issue 1	Level I		9.00	0.004518	.2655	221353427.43
1129610051	Capacitor	C114,C125,C342, C343,C403,C406, C417,C435,C445, C476,C515,C537, C605,C66,C746,C762, C773,C83,C85	Telcordia Issue 1	Level I		19.00	0.004518	.5604	221353427.43
11E9647680	Capacitor	C158,C404,C484, C560,C565,C68,C784, C789,C793,C795, C797,C800,C804	Telcordia Issue 1	Level I		13.00	0.004518	.3834	221353427.43
1122522890	Capacitor	C443,C456,C457, C458,C471,C475,C72	Telcordia Issue 1	Level I		7.00	0.004518	.2065	221353427.43
1121647480	Capacitor	C104,C107,C108, C377,C378,C411, C432,C452,C489, C493,C518,C78	Telcordia Issue 1	Level I		12.00	0.004518	.3539	221353427.43
1129622050	Capacitor	C105,C106,C583, C584,C587,C588, C597,C598,C608, C609,C610,C611, C615,C616,C617, C618,C621,C622, C626,C627,C628, C629	Telcordia Issue 1	Level I		22.00	0.004518	.6489	221353427.43
1129701790	Capacitor	C128,C272,C274, C275,C277,C316, C389,C619	Telcordia Issue 1	Level I		8.00	0.004518	.2360	221353427.43
1189622190	Capacitor	C137	Telcordia Issue 1	Level I		1.00	0.004518	.0295	221353427.43
1189633192	Capacitor	C148	Telcordia Issue 1	Level I		1.00	0.004518	.0295	221353427.43
1129601080	Capacitor	C154,C412,C554, C558,C569,C570, C591	Telcordia Issue 1	Level I		7.00	0.004518	.2065	221353427.43
1124547290	Capacitor	C159,C162,C166, C167,C174,C180, C184,C185	Telcordia Issue 1	Level I		8.00	0.004518	.2360	221353427.43
1124547080	Capacitor	C168	Telcordia Issue 1	Level I		1.00	0.004518	.0295	221353427.43
1124515880	Capacitor	C169	Telcordia Issue 1	Level I		1.00	0.004518	.0295	221353427.43
1121701790	Capacitor	C172,C173,C659, C663,C745	Telcordia Issue 1	Level I		5.00	0.004518	.1475	221353427.43

AAEON Reliability Prediction Report

Part Number 9697931067-D
Reference Des
Date 05. 26, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80

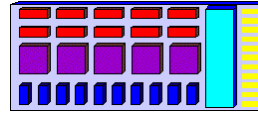


Description
File Name TF-FOX-122HTT-A1-1010.RPJ
Time 10:50 上午
Failure Rate 15.316690
MTBF 65,288

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1124533190	Capacitor	C191,C192,C196, C197,C201,C202, C203,C267,C268, C269,C687,C690	Telcordia Issue 1	Level I		12.00	0.005458	.4276	183201032.40
1121615080	Capacitor	C309,C310,C311, C312,C313,C314	Telcordia Issue 1	Level I		6.00	0.004518	.1770	221353427.43
1124433080	Capacitor	C748,C749	Telcordia Issue 1	Level I		2.00	0.004518	.0590	221353427.43
1189622850	Capacitor	C393,C394,C415,C77, C80	Telcordia Issue 1	Level I		5.00	0.004518	.1475	221353427.43
1129647650	Capacitor	C399,C407,C440, C604,C695,C771, C785	Telcordia Issue 1	Level I		7.00	0.004518	.2065	221353427.43
1129522790	Capacitor	C423,C424,C492, C509,C519,C522, C671,C696,C698	Telcordia Issue 1	Level I		9.00	0.004518	.2655	221353427.43
1189615160	Capacitor	C248,C428,C504, C523,C532,C533, C657	Telcordia Issue 1	Level I		7.00	0.004518	.2065	221353427.43
118961018A	Capacitor	C520	Telcordia Issue 1	Level I		1.00	0.004518	.0295	221353427.43
1124539180	Capacitor	C649	Telcordia Issue 1	Level I		1.00	0.004518	.0295	221353427.43
1121733380	Capacitor	C651,C677	Telcordia Issue 1	Level I		2.00	0.004518	.0590	221353427.43
1124447180	Capacitor	C652	Telcordia Issue 1	Level I		1.00	0.004518	.0295	221353427.43
1124518180	Capacitor	C665	Telcordia Issue 1	Level I		1.00	0.004518	.0295	221353427.43
1122722780	Capacitor	C673,C685	Telcordia Issue 1	Level I		2.00	0.004518	.0590	221353427.43
1124522180	Capacitor	C743,C744	Telcordia Issue 1	Level I		2.00	0.004518	.0590	221353427.43
1129701690	Capacitor	C750,C755,C758, C759,C767,C768	Telcordia Issue 1	Level I		6.00	0.004518	.1770	221353427.43
1122701680	Capacitor	C747,C752,C756, C763,C772	Telcordia Issue 1	Level I		5.00	0.004518	.1475	221353427.43
11C2510190	Capacitor	C612,C636,C753, C754,C757,C761, C764,C765,C766	Telcordia Issue 1	Level I		9.00	0.004518	.2655	221353427.43
1189647184	Capacitor	C760,C769,C770	Telcordia Issue 1	Level I		3.00	0.004518	.0885	221353427.43
1189633181	Capacitor	C774	Telcordia Issue 1	Level I		1.00	0.004518	.0295	221353427.43
16515A0996	Connection	DIMM1	Telcordia Issue 1	Level I		1.00	0.112610	.7352	8880186.67
14S3006000	Integrated Circuit	DN1	Telcordia Issue 1	Level I		1.00	0.058503	.3820	17093092.17
1301005442	Semiconductor	D2,D3,D31	Telcordia Issue 1	Level I		3.00	0.023744	.4651	42115875.63
1301005440	Semiconductor	D11,D14,D15,D16, D19,D20,D21,D4	Telcordia Issue 1	Level I		8.00	0.023744	1.2402	42115875.63
1300581940	Semiconductor	D12,D13,D17,D18	Telcordia Issue 1	Level I		4.00	0.079147	2.0669	12634762.69
1301002240	Semiconductor	D38,D39,D40,D41	Telcordia Issue 1	Level I		4.00	0.023744	.6201	42115875.63

AAEON Reliability Prediction Report

Part Number 9697931067-D
Reference Des
Date 05. 26, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80

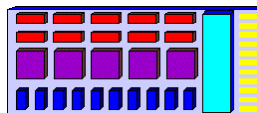


Description
File Name TF-FOX-122HTT-A1-1010.RPJ
Time 10:50 上午
Failure Rate 15.316690
MTBF 65,288

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1059700001	Resistor	FB10,FB2,FB3,FB4, FB7,L13,L25,L32,L4, L40,L42,L44,L47,L5, L80,R337,R472,R705, R706,R847,R850, R854,R855	Telcordia Issue 1	Level I		23.00	0.002259	.3392	442706854.87
1304101340	Semiconductor	LED1,LED2	Telcordia Issue 1	Level I		2.00	0.004788	.0625	208850651.61
1304001340	Semiconductor	LED3	Telcordia Issue 1	Level I		1.00	0.004788	.0313	208850651.61
1212306033	Inductor	L1,L10,L11,L12,L35, L36,L37,L38,L41, L50,L51,L52,L53, L54,L55,L64,L65, L71,L73,L74,L75, L76	Telcordia Issue 1	Level I		22.00	0.002259	.3244	442706854.87
121230805X	Inductor	L45,L46,L7,L70,L72, L77,L8	Telcordia Issue 1	Level I		7.00	0.002259	.1032	442706854.87
1211101005	Inductor	L67,L9	Telcordia Issue 1	Level I		2.00	0.002259	.0295	442706854.87
121110156A	Inductor	L14	Telcordia Issue 1	Level I		1.00	0.085836	.5604	11650180.39
1211105673	Inductor	L15	Telcordia Issue 1	Level I	27.10	1.00	0.139746	.9124	7155841.97
1211105673	Inductor	L17	Telcordia Issue 1	Level I	23.90	1.00	0.132496	.8650	7547416.76
1211100160	Inductor	L16,L69	Telcordia Issue 1	Level I		2.00	0.002259	.0295	442706854.87
1211101060	Inductor	L18,L21	Telcordia Issue 1	Level I		2.00	0.085836	1.1208	11650180.39
105A700003	Resistor	L30,L31,R701,R702, R838,R841,R865, R867,R927,R928, R942	Telcordia Issue 1	Level I		11.00	0.002259	.1622	442706854.87
121230603S	Inductor	L60,L61,L62	Telcordia Issue 1	Level I		3.00	0.002259	.0442	442706854.87
121230603H	Inductor	L68	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
121230805Z	Inductor	L78	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
1211105660	Inductor	L84	Telcordia Issue 1	Level I	24.90	1.00	0.134735	.8797	7421959.01
121110476B	Inductor	L85	Telcordia Issue 1	Level I		1.00	0.085836	.5604	11650180.39
1654262300	Connection	MPC11	Telcordia Issue 1	Level I		1.00	0.069818	.4558	14322881.73
1311006910	Semiconductor	Q5,Q6	Telcordia Issue 1	Level I		2.00	0.023744	.3100	42115875.63
14S2591200	Integrated Circuit	Q7	Telcordia Issue 1	Level I		1.00	0.058503	.3820	17093092.17
1315700211	Semiconductor	Q21,Q22,Q25,Q26, Q27,Q28,Q33,Q35, Q52,Q53,Q54,Q55, Q56,Q57,Q8	Telcordia Issue 1	Level I		15.00	0.079147	7.7510	12634762.69
1315600210	Semiconductor	Q10	Telcordia Issue 1	Level I	29.70	1.00	0.344349	2.2482	2904029.50
1315600210	Semiconductor	Q12	Telcordia Issue 1	Level I		1.00	0.158293	1.0335	6317381.35
1310390410	Semiconductor	Q23,Q40	Telcordia Issue 1	Level I		2.00	0.023744	.3100	42115875.63
1315230111	Semiconductor	Q24,Q37	Telcordia Issue 1	Level I		2.00	0.000000	.0000	.00
1315441014	Semiconductor	Q31	Telcordia Issue 1	Level I		1.00	0.079147	.5167	12634762.69
1315700310	Semiconductor	Q36	Telcordia Issue 1	Level I	36.20	1.00	0.200371	1.3082	4990751.26

AAEON Reliability Prediction Report

Part Number 9697931067-D
Reference Des
Date 05. 26, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80

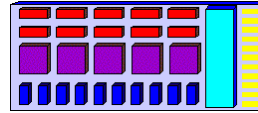


Description
File Name TF-FOX-122HTT-A1-1010.RPJ
Time 10:50 上午
Failure Rate 15.316690
MTBF 65,288

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1315700310	Semiconductor	Q38	Telcordia Issue 1	Level I		1.00	0.079147	.5167	12634762.69
1540710080	Resistor	RN3,RN4,RN5,RN6	Telcordia Issue 1	Level I		4.00	0.006189	.1616	161574538.37
106B747030	Resistor	RT1	Telcordia Issue 1	Level I		1.00	0.011261	.0735	88801866.72
106B501032	Resistor	RT2,RT3,RT4,RT5	Telcordia Issue 1	Level I		4.00	0.002259	.0590	442706854.87
105A505629	Resistor	R2	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A700009	Resistor	D2(P1-P2),R128,R14, R140,R15,R16,R165, R166,R17,R172,R18, R180,R207,R214, R217,R220,R224, R225,R23,R232,R238, R239,R25,R261,R262, R263,R264,R265, R277,R279,R281, R285,R297,R299, R334,R347,R348, R349,R350,R356, R365,R367,R398,	Telcordia Issue 1	Level I		103.00	0.002259	1.5190	442706854.87
105A549969	Resistor	R10,R11,R12,R13, R484,R490,R493, R498,R502,R503, R508,R515,R523, R530,R533,R539, R541,R542,R544, R547,R6,R7,R780, R781,R8,R9	Telcordia Issue 1	Level I		26.00	0.002259	.3834	442706854.87
105A701039	Resistor	R125,R144,R168, R170,R181,R183, R184,R185,R186, R187,R191,R193,R21, R27,R368,R413,R43, R448,R449,R454, R455,R461,R462,R51, R519,R521,R527, R534,R535,R537, R579,R585,R675, R681,R933,R945	Telcordia Issue 1	Level I		36.00	0.002259	.5309	442706854.87
105A710009	Resistor	R146,R182,R22,R241, R440,R504,R512, R517,R565,R574, R604,R621,R626, R632,R666,R687, R693,R779	Telcordia Issue 1	Level I		18.00	0.002259	.2655	442706854.87

AAEON Reliability Prediction Report

Part Number 9697931067-D
Reference Des
Date 05. 26, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80

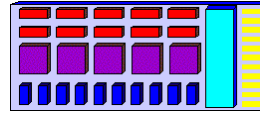


Description
File Name TF-FOX-122HTT-A1-1010.RPJ
Time 10:50 上午
Failure Rate 15.316690
MTBF 65,288

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A703309	Resistor	R102,R105,R109, R113,R114,R116, R118,R119,R123, R203,R419,R468, R491,R536,R551, R552,R553,R575, R633,R70,R72,R73, R75,R79,R84,R86, R88,R89,R91,R94, R96,R98,R99	Telcordia Issue 1	Level I		33.00	0.002259	.4867	442706854.87
105A702229	Resistor	R445,R446,R469, R507,R524,R725,R76	Telcordia Issue 1	Level I		7.00	0.002259	.1032	442706854.87
105A705609	Resistor	R103,R106,R108, R110,R117,R120, R127,R129,R132, R137,R139,R147, R231,R326,R327, R328,R329,R471, R477,R485,R525, R540,R543,R546, R560,R644,R690, R691,R692,R696,R82, R83,R90,R92,R95, R97,Rework	Telcordia Issue 1	Level I		37.00	0.002259	.5457	442706854.87
1050568124	Resistor	R148	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
1050522104	Resistor	R149,R566	Telcordia Issue 1	Level I		2.00	0.002259	.0295	442706854.87
105A554969	Resistor	R150,R196,R567, R697,R726	Telcordia Issue 1	Level I		5.00	0.002259	.0737	442706854.87
1050524904	Resistor	R151,R152,R216, R426,R611	Telcordia Issue 1	Level I		5.00	0.002259	.0737	442706854.87
1050580664	Resistor	R153,R154	Telcordia Issue 1	Level I		2.00	0.002259	.0295	442706854.87
1050547004	Resistor	R577,R711	Telcordia Issue 1	Level I		2.00	0.002259	.0295	442706854.87
105A512039	Resistor	R159	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A702239	Resistor	R160,R276,R278, R280,R284,R627, R720,R733	Telcordia Issue 1	Level I		8.00	0.002259	.1180	442706854.87
105A710039	Resistor	R167,R245,R389, R400,R441,R759	Telcordia Issue 1	Level I		6.00	0.002259	.0885	442706854.87
105A522669	Resistor	R192	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A505109	Resistor	R194	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A527469	Resistor	R195,R727	Telcordia Issue 1	Level I		2.00	0.002259	.0295	442706854.87
105A500239	Resistor	R198	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A510213	Resistor	R204	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A502033	Resistor	R234,R853	Telcordia Issue 1	Level I		2.00	0.002259	.0295	442706854.87
105A540213	Resistor	R237	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87

AAEON Reliability Prediction Report

Part Number 9697931067-D
Reference Des
Date 05. 26, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80

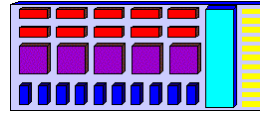


Description
File Name TF-FOX-122HTT-A1-1010.RPJ
Time 10:50 上午
Failure Rate 15.316690
MTBF 65,288

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A514733	Resistor	R242	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A701003	Resistor	R731,R745,R753, R837	Telcordia Issue 1	Level I		4.00	0.002259	.0590	442706854.87
1050502204	Resistor	R343,R344,R345, R346	Telcordia Issue 1	Level I		4.00	0.002259	.0590	442706854.87
105A515009	Resistor	R357,R358,R359, R376,R377,R378, R458,R459,R460, R482,R483,R500	Telcordia Issue 1	Level I		12.00	0.002259	.1770	442706854.87
105A705139	Resistor	R360,R379	Telcordia Issue 1	Level I		2.00	0.002259	.0295	442706854.87
1124427080	Capacitor	C433,C434	Telcordia Issue 1	Level I		2.00	0.004518	.0590	221353427.43
1124547190	Capacitor	BC350,BC351,BC372, BC524	Telcordia Issue 1	Level I		4.00	0.004518	.1180	221353427.43
105A501529	Resistor	R417	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A503039	Resistor	R422	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A501039	Resistor	R423,R424,R437, R438,R439,R447, R478,R667,R757, R763,R770	Telcordia Issue 1	Level I		11.00	0.002259	.1622	442706854.87
105A701059	Resistor	R431,R646	Telcordia Issue 1	Level I		2.00	0.002259	.0295	442706854.87
105A506829	Resistor	R432,R435	Telcordia Issue 1	Level I		2.00	0.002259	.0295	442706854.87
105A510053	Resistor	R453,R658	Telcordia Issue 1	Level I		2.00	0.013553	.1770	73784475.81
105A549919	Resistor	R466,R920	Telcordia Issue 1	Level I		2.00	0.002259	.0295	442706854.87
1050525504	Resistor	R475	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A701009	Resistor	R476,R573	Telcordia Issue 1	Level I		2.00	0.002259	.0295	442706854.87
105A547509	Resistor	R511	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
1050520004	Resistor	R516	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A507509	Resistor	R643,R934,R935, R936	Telcordia Issue 1	Level I		4.00	0.002259	.0590	442706854.87
1050533034	Resistor	R647	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A702263	Resistor	R669,R670,R683, R688,R750,R767	Telcordia Issue 1	Level I		6.00	0.002259	.0885	442706854.87
105A532413	Resistor	R678	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A500233	Resistor	R679	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A501623	Resistor	R680	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A511313	Resistor	R682	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A500133	Resistor	R685,R743	Telcordia Issue 1	Level I		2.00	0.002259	.0295	442706854.87
105A503633	Resistor	R689	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A544213	Resistor	R708	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
1050549904	Resistor	R714	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A516923	Resistor	R717	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A561923	Resistor	R728,R848	Telcordia Issue 1	Level I		2.00	0.002259	.0295	442706854.87

AAEON Reliability Prediction Report

Part Number 9697931067-D
Reference Des
Date 05. 26, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80

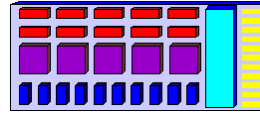


Description
File Name TF-FOX-122HTT-A1-1010.RPJ
Time 10:50 上午
Failure Rate 15.316690
MTBF 65,288

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A501413	Resistor	R730	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A505623	Resistor	R737	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A518213	Resistor	R738	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A700103	Resistor	R219,R751,R756, R762	Telcordia Issue 1	Level I		4.00	0.002259	.0590	442706854.87
105A536513	Resistor	R752,R771	Telcordia Issue 1	Level I		2.00	0.002259	.0295	442706854.87
105A501133	Resistor	R754	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A526113	Resistor	R755	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A701053	Resistor	R833,R943	Telcordia Issue 1	Level I		2.00	0.002259	.0295	442706854.87
105A501539	Resistor	R842,R843	Telcordia Issue 1	Level I		2.00	0.002259	.0295	442706854.87
1054600289	Resistor	R846,R851	Telcordia Issue 1	Level I		2.00	0.016375	.2138	61067010.80
105A511823	Resistor	R849	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A563423	Resistor	R852	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
105A547003	Resistor	R863	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
14S3065500	Integrated Circuit	U1	Telcordia Issue 1	Level I	41.50	1.00	0.843275	5.5056	1185853.02
14S1826100	Integrated Circuit	U2	Telcordia Issue 1	Level I		1.00	0.058503	.3820	17093092.17
1129722091	Capacitor	C778,C779	Telcordia Issue 1	Level I		2.00	0.004518	.0590	221353427.43
14S4871204	Integrated Circuit	U4	Telcordia Issue 1	Level I		1.00	0.025876	.1689	38645358.49
105A703329	Resistor	R883,R890,R906, R907,R919,R926	Telcordia Issue 1	Level I		6.00	0.002259	.0885	442706854.87
14S3020100	Integrated Circuit	U7	Telcordia Issue 1	Level I		1.00	0.058503	.3820	17093092.17
14S4294501	Integrated Circuit	U8	Telcordia Issue 1	Level I	25.80	1.00	0.104685	.6835	9552455.19
1651203291	Connection	U9	Telcordia Issue 1	Level I		1.00	0.018018	.1176	55501166.70
14S3422600	Integrated Circuit	U10	Telcordia Issue 1	Level I	43.80	1.00	0.959305	6.2631	1042421.74
14S5A00700	Integrated Circuit	U11	Telcordia Issue 1	Level I		1.00	0.024950	.1629	40080193.24
105A515034	Resistor	R240	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
14S3156500	Semiconductor	U13	Telcordia Issue 1	Level I		1.00	0.047488	.3100	21057937.82
14S4081110	Integrated Circuit	U14,U18,U41	Telcordia Issue 1	Level I		3.00	0.058503	1.1459	17093092.17
14S428010D	Integrated Circuit	U15	Telcordia Issue 1	Level I	45.00	1.00	0.258402	1.6871	3869934.87
14S4653700	Integrated Circuit	U17	Telcordia Issue 1	Level I	40.20	1.00	0.783406	5.1147	1276477.32
14S3626200	Integrated Circuit	U19	Telcordia Issue 1	Level I	30.50	1.00	0.131882	.8610	7582516.35
1315970211	Semiconductor	U20,U27	Telcordia Issue 1	Level I		2.00	0.158293	2.0669	6317381.35
14S4021310	Integrated Circuit	U23,U25	Telcordia Issue 1	Level I		2.00	0.058503	.7639	17093092.17
14S5812502	Integrated Circuit	U31,U35	Telcordia Issue 1	Level I		2.00	0.025876	.3379	38645358.49
14S4048501	Integrated Circuit	U32,U33	Telcordia Issue 1	Level I		2.00	0.058503	.7639	17093092.17
14S5A12505	Integrated Circuit	U34	Telcordia Issue 1	Level I		1.00	0.058503	.3820	17093092.17
14S1035801	Integrated Circuit	U37	Telcordia Issue 1	Level I		1.00	0.058503	.3820	17093092.17

AAEON Reliability Prediction Report

Part Number 9697931067-D
Reference Des
Date 05. 26, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.80



Description
File Name TF-FOX-122HTT-A1-1010.RPJ
Time 10:50 上午
Failure Rate 15.316690
MTBF 65,288

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S3372800	Integrated Circuit	U44	Telcordia Issue 1	Level I	30.10	1.00	0.433383	2.8295	2307430.37
14S5A00602	Integrated Circuit	U45	Telcordia Issue 1	Level I		1.00	0.025876	.1689	38645358.49
1315442910	Semiconductor	U47,U51	Telcordia Issue 1	Level I		2.00	0.079147	1.0335	12634762.69
1231325058	Miscellaneous	Y1	Telcordia Issue 1	Level I		1.00	0.150000	.9793	6666666.67
123131435B	Miscellaneous	Y2	Telcordia Issue 1	Level I		1.00	0.150000	.9793	6666666.67
1231332721	Miscellaneous	Y3	Telcordia Issue 1	Level I		1.00	0.150000	.9793	6666666.67
105A704709	Resistor	R908,R911,R912	Telcordia Issue 1	Level I		3.00	0.002259	.0442	442706854.87
1050519114	Resistor	R243	Telcordia Issue 1	Level I		1.00	0.002259	.0147	442706854.87
1059700201	Resistor	R929,R930	Telcordia Issue 1	Level I		2.00	0.002259	.0295	442706854.87
14S4825730	Integrated Circuit	U49	Telcordia Issue 1	Level I	49.00	1.00	0.308021	2.0110	3246536.78
14S6308001	Integrated Circuit	U50	Telcordia Issue 1	Level I		1.00	0.035361	.2309	28279854.47
1124418090	Capacitor	C577,C578	Telcordia Issue 1	Level I		2.00	0.004518	.0590	221353427.43
1121533480	Capacitor	C676	Telcordia Issue 1	Level I		1.00	0.004518	.0295	221353427.43
1654030003	Connection	CN12	Telcordia Issue 1	Level I		1.00	0.016892	.1103	59201244.48
1752001601	Miscellaneous	FS1,FS2	Telcordia Issue 1	Level I		2.00	0.003000	.0392	33333333.33
1315442010	Integrated Circuit	Q29,Q30,Q32,Q34, Q48,Q49,Q50,Q51	Telcordia Issue 1	Level I		8.00	0.058503	3.0557	17093092.17
11E1647650	Capacitor	C296,C635	Telcordia Issue 1	Level I		2.00	0.042229	.5514	23680497.79
14S4010602	Integrated Circuit	U16	Telcordia Issue 1	Level I	26.60	1.00	0.108934	.7112	9179881.48
11E9501091	Capacitor	C751	Telcordia Issue 1	Level I		1.00	0.004518	.0295	221353427.43
165392521H	Connection	CN24	Telcordia Issue 1	Level I		1.00	0.028153	.1838	35520746.69
175011901G	Miscellaneous	BAT1	Telcordia Issue 1	Level I		1.00	0.900000	5.8759	1111111.11
1655902030	Connection	BAT1	Telcordia Issue 1	Level I		1.00	0.001126	.0074	888018667.20
1653005201	Connection	CN2,CN20,CN23,CN9	Telcordia Issue 1	Level I		4.00	0.005631	.1470	177603733.44
1653004201	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.004504	.0294	222004666.80
1653007201	Connection	CN6	Telcordia Issue 1	Level I		1.00	0.007883	.0515	126859809.60
1654409103	Connection	CN11	Telcordia Issue 1	Level I		1.00	0.126687	.8271	7893499.26
1655003010	Connection	CN15	Telcordia Issue 1	Level I		1.00	0.001689	.0110	592012444.80
1652002100	Connection	CN19	Telcordia Issue 1	Level I		1.00	0.001126	.0074	888018667.20
1654606306	Connection	CN21	Telcordia Issue 1	Level I		1.00	0.003378	.0221	296006222.40
1653900038	Connection	CN24	Telcordia Issue 1	Level I		1.00	0.001126	.0074	888018667.20
1654415305	Connection	CN26	Telcordia Issue 1	Level I		1.00	0.008446	.0551	118402488.96
1655303020	Connection	CN28	Telcordia Issue 1	Level I		1.00	0.001689	.0110	592012444.80
1181627191	Capacitor	EC5,EC7	Telcordia Issue 1	Level I		2.00	0.004518	.0590	221353427.43
1653003101	Connection	JP1	Telcordia Issue 1	Level I		1.00	0.001689	.0110	592012444.80
1653003201	Connection	JP3	Telcordia Issue 1	Level I		1.00	0.001126	.0074	888018667.20

