

AOP-9120 Reliability Prediction Report (MTBF)

Report NO : 10P070002

01-14-2010

Issue Date

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Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** TF-AOP-9120HT-A1-1010

II . **Prediction Date:** Jan. 14, 2010

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: 24.7 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-AOP-9120HT-A1-1010 (Not include Inverter, LCD, Touch screen and Power supply)
Failure Rate: 21.672217 ppm
MTBF: 46,142 Hours

Below components MTBF value were provided by the suppliers:

- (TF)INVERTER.DC-AC.+12V.For Hydys.HT12X13-100.HWA YOUN.QF38V6.90BIS
MTBF: 1,294,274 hours

- (TF)TFT LCD.12.1".Hydis.HT12X13-100.1024*768
Lamp life: Min. 10,000 hours(IBL=6mA)
- (TF)SPS.115/230V.1.5A.DC OUT 12V/5A.60W.POWER-WIN.PW-060B-1Y12(G)
MTBF: 100,000 hours min. at max. load for 25 degree centigrade ambient temperature.
- (TF) Touch Screen.12".5 Wire.Resistive.ABON.AT-121F-5RB-018N-16R-150FH
Knock Test: 35,000,000 times

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 01. 14, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.70



Description Top-level assembly
File Name TF-AOP-9120HT-A1-1010.RPJ
Time 12:03 下午
Failure Rate 21.672217
MTBF 46,142

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-AOP-9120HT-A1-1010	System	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	21.67	46142.03
EMB-9459T-A10	9697945905-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	21.67	46142.03

AAEON Reliability Prediction Report

Part Number 9697945905-D
Reference Des
Date 01. 14, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.70



Description
File Name TF-AOP-9120HT-A1-1010.RPJ
Time 12:03 下午
Failure Rate 21.672217
MTBF 46,142

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1121501691	Capacitor	BC1,BC10,BC100, BC101,BC102,BC103, BC104,BC109,BC11, BC110,BC111,BC112, BC113,BC114,BC115, BC116,BC117,BC118, BC119,BC12,BC120, BC121,BC122,BC123, BC124,BC125,BC126, BC127,BC128,BC129, BC13,BC130,BC131, BC132,BC133,BC134, BC135,BC136,BC1	Telcordia Issue 1	Level I		298.00	0.004509	6.1998	221788324.40
1654030003	Connection	CN7	Telcordia Issue 1	Level I		1.00	0.016803	.0775	59511922.46
165320520C	Connection	CN14,CN8,CN9	Telcordia Issue 1	Level I		3.00	0.005601	.0775	178535767.38
165321320E	Connection	CN10	Telcordia Issue 1	Level I		1.00	0.014563	.0672	68667602.84
1653205201	Connection	CN12,CN13,CN15, CN16	Telcordia Issue 1	Level I		4.00	0.005601	.1034	178535767.38
1174510180	Capacitor	CP1,CP10,CP11,CP12, CP2,CP7,CP8,CP9	Telcordia Issue 1	Level I		8.00	0.005455	.2014	183320933.34
1124533190	Capacitor	C1,C157,C163,C169, C173,C194,C195, C196,C197,C198,C2, C26	Telcordia Issue 1	Level I		12.00	0.005455	.3020	183320933.34
1124427090	Capacitor	C10,C11,C12,C199, C206,C207,C3,C34, C39,C40,C41,C42,C7, C8,C9	Telcordia Issue 1	Level I		15.00	0.004509	.3121	221788324.40
1129710090	Capacitor	C204,C205,C4,C5, C576,C577,C6,C79, C81	Telcordia Issue 1	Level I		9.00	0.004509	.1872	221788324.40
1121701790	Capacitor	BC174,BC24,C13,C14, C184,C185,C76	Telcordia Issue 1	Level I		7.00	0.004509	.1456	221788324.40
11E9501091	Capacitor	BC106,BC293,BC82, C109,C148,C15,C150, C16,C17,C181,C188, C189,C191,C200, C202,C203,C208, C219,C22,C221,C224, C230,C233,C234, C241,C250,C262, C265,C266,C268, C269,C27,C277,C28, C282,C283,C285, C286,C287,C288, C289,C29,C290,C	Telcordia Issue 1	Level I		56.00	0.004509	1.1651	221788324.40

AAEON Reliability Prediction Report

Part Number 9697945905-D
Reference Des
Date 01. 14, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.70



Description
File Name TF-AOP-9120HT-A1-1010.RPJ
Time 12:03 下午
Failure Rate 21.672217
MTBF 46,142

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1124410190	Capacitor	C121,C122,C123, C124,C125,C126, C127,C128,C129, C130,C131,C132, C133,C134,C135, C136,C137,C338, C349,C36	Telcordia Issue 1	Level I		20.00	0.004509	.4161	221788324.40
11E9622050	Capacitor	C113,C114,C303, C304,C307,C308, C310,C45,C46,C51, C54	Telcordia Issue 1	Level I		11.00	0.004509	.2288	221788324.40
11E9647680	Capacitor	C220,C235,C249, C272,C48,C582,C583, C77,C78,C80,C83, C85,C96	Telcordia Issue 1	Level I		13.00	0.004509	.2705	221788324.40
11E1647650	Capacitor	C186,C187,C281, C284	Telcordia Issue 1	Level I		4.00	0.004509	.0832	221788324.40
1121701080	Capacitor	C166,C611,C612, C622,C623,C629	Telcordia Issue 1	Level I		6.00	0.004509	.1248	221788324.40
11C1501080	Capacitor	C73,C74,C87,C88, C92,C94,C98	Telcordia Issue 1	Level I		7.00	0.004509	.1456	221788324.40
1122522890	Capacitor	C242,C244,C255,C82, C84,C86,C89	Telcordia Issue 1	Level I		7.00	0.004509	.1456	221788324.40
1121647480	Capacitor	C110,C112,C243, C251,C312,C647, C648,C91	Telcordia Issue 1	Level I		8.00	0.004509	.1664	221788324.40
11C2539290	Capacitor	C100,C138,C139, C141,C143,C93,C95, C99	Telcordia Issue 1	Level I		8.00	0.004509	.1664	221788324.40
1129522790	Capacitor	C104,C105,C106, C107,C108,C160,C97	Telcordia Issue 1	Level I		7.00	0.004509	.1456	221788324.40
1124433080	Capacitor	C101,C117	Telcordia Issue 1	Level I		2.00	0.004509	.0416	221788324.40
1124412090	Capacitor	C102,C116	Telcordia Issue 1	Level I		2.00	0.004509	.0416	221788324.40
1129610051	Capacitor	C145,C146,C152, C153,C154,C155, C156,C279,C295, C296,C297,C298, C299,C302,C311, C587,C599,C600, C606,TC1,TC10,TC11, TC12,TC13,TC14, TC15,TC16,TC17,TC2, TC20,TC21,TC22, TC23,TC24,TC25, TC28,TC29,TC30, TC31,TC32,TC33,	Telcordia Issue 1	Level I		68.00	0.004509	1.4147	221788324.40
1124515880	Capacitor	C161	Telcordia Issue 1	Level I		1.00	0.004509	.0208	221788324.40
1124556180	Capacitor	C171	Telcordia Issue 1	Level I		1.00	0.004509	.0208	221788324.40
1124418190	Capacitor	C170	Telcordia Issue 1	Level I		1.00	0.004509	.0208	221788324.40

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MTBF 46,142

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1129710390	Capacitor	C162,C172,C190, C305,C592	Telcordia Issue 1	Level I		5.00	0.004509	.1040	221788324.40
105A540213	Resistor	R846	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A514733	Resistor	R478	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A522113	Resistor	R503	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A535713	Resistor	R842	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A545313	Resistor	R833	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
106B701032	Resistor	RT5	Telcordia Issue 1	Level I		1.00	0.011202	.0517	89267883.69
106B747030	Resistor	RT4	Telcordia Issue 1	Level I		1.00	0.011202	.0517	89267883.69
1124405080	Capacitor	C177,C178,C179, C180,C182,C183	Telcordia Issue 1	Level I		6.00	0.005455	.1510	183320933.34
123131435B	Miscellaneous	Y5	Telcordia Issue 1	Level I		1.00	0.150000	.6921	6666666.67
1301005440	Semiconductor	D10,D21,D25,D28, D40,D42,D43	Telcordia Issue 1	Level I		7.00	0.023676	.7647	42237291.76
1301005442	Semiconductor	D11,D12,D13,D38, D39,D44	Telcordia Issue 1	Level I		6.00	0.023676	.6555	42237291.76
1300581940	Semiconductor	D14,D23	Telcordia Issue 1	Level I		2.00	0.078919	.7283	12671187.53
1300001440	Semiconductor	D24,D26,D27	Telcordia Issue 1	Level I		3.00	0.023676	.3277	42237291.76
1189615187	Capacitor	EC17,EC18	Telcordia Issue 1	Level I		2.00	0.004509	.0416	221788324.40
1059700001	Resistor	FB1,FB2,FB3,FB4, L12,L40,L44,L45, L49,L55,L61,L62, L63,R155,R156,R253, R43,R461,R519,R76, R787	Telcordia Issue 1	Level I		21.00	0.002254	.2184	443576648.79
1752001601	Miscellaneous	FS1,FS2	Telcordia Issue 1	Level I		2.00	0.003000	.0277	333333333.33
1653222209	Connection	IDE1	Telcordia Issue 1	Level I		1.00	0.024645	.1137	40576310.77
1304001340	Semiconductor	LED1	Telcordia Issue 1	Level I		1.00	0.004744	.0219	210772446.23
1304101340	Semiconductor	LED2,LED3	Telcordia Issue 1	Level I		2.00	0.004744	.0438	210772446.23
1212306033	Inductor	L1,L10,L11,L18,L2, L20,L21,L22,L23, L24,L27,L28,L3,L34, L35,L36,L37,L38, L39,L4,L5,L54,L56, L6,L7,L8,L9	Telcordia Issue 1	Level I		27.00	0.002254	.2809	443576648.79
121230603H	Inductor	L17,L41,L43,L46, L64	Telcordia Issue 1	Level I		5.00	0.002254	.0520	443576648.79
121230805Z	Inductor	L19	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
1211100102	Inductor	L25,L53	Telcordia Issue 1	Level I		2.00	0.085667	.7906	11673069.71
121230805X	Inductor	L29,L30,L33,L42, L50	Telcordia Issue 1	Level I		5.00	0.002254	.0520	443576648.79
1211104760	Inductor	L47,L48	Telcordia Issue 1	Level I		2.00	0.002254	.0208	443576648.79
1211101002	Inductor	L51,L52	Telcordia Issue 1	Level I		2.00	0.002254	.0208	443576648.79
1231325058	Miscellaneous	Y1,Y2	Telcordia Issue 1	Level I		2.00	0.150000	1.3843	6666666.67
1654262300	Connection	MPCI1	Telcordia Issue 1	Level I		1.00	0.069454	.3205	14398045.76

AAEON Reliability Prediction Report

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Reference Des
Date 01. 14, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.70



Description
File Name TF-AOP-9120HT-A1-1010.RPJ
Time 12:03 下午
Failure Rate 21.672217
MTBF 46,142

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1050556269	Resistor	R252,R254,R255, R257,R259,R265, R279,R282,R283, R286,R287,R288, R290,R291,R297,R32, R327,R328,R33,R334, R34,R342,R343,R344, R345,R346,R347,R35, R365,R366,R390, R411,R414,R416, R419,R421,R426, R440,R673,R700	Telcordia Issue 1	Level I		40.00	0.002254	.4161	443576648.79
105A702239	Resistor	R293,R302,R324,R50, R535,R761	Telcordia Issue 1	Level I		6.00	0.002254	.0624	443576648.79
105A501223	Resistor	R53	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A708229	Resistor	R168,R169,R170, R171,R172,R173, R174,R175,R177, R179,R269,R270, R272,R316,R385, R386,R388,R389,R57, R58,R583,R585,R586, R587,R606,R607, R608,R609,R614, R615,R622,R623, R629,R633,R634, R635,R636,R638, R639,R656,R685,	Telcordia Issue 1	Level I		48.00	0.002254	.4993	443576648.79
14S5A01400	Integrated Circuit	U45,U46	Telcordia Issue 1	Level I		2.00	0.058076	.5359	17218806.10
105A733009	Resistor	R196,R404,R477, R480,R482,R509, R641,R67	Telcordia Issue 1	Level I		8.00	0.002254	.0832	443576648.79
1050502224	Resistor	R299,R313,R383, R460,R531,R533, R534,R550,R691, R704,R705,R706, R707,R90	Telcordia Issue 1	Level I		14.00	0.002254	.1456	443576648.79
105A524913	Resistor	R91,R92	Telcordia Issue 1	Level I		2.00	0.002254	.0208	443576648.79
105A700003	Resistor	R820,R860,R888,R97, R98	Telcordia Issue 1	Level I		5.00	0.002254	.0520	443576648.79
105A501039	Resistor	R413,R418,R425, R437,R473,R474, R795,R798,R799, R800,R801	Telcordia Issue 1	Level I		11.00	0.002254	.1144	443576648.79
105A514014	Resistor	R132	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A547033	Resistor	R136	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79

AAEON Reliability Prediction Report

Part Number 9697945905-D
Reference Des
Date 01. 14, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.70



Description
File Name TF-AOP-9120HT-A1-1010.RPJ
Time 12:03 下午
Failure Rate 21.672217
MTBF 46,142

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A501533	Resistor	R138,R142	Telcordia Issue 1	Level I		2.00	0.002254	.0208	443576648.79
1059703623	Resistor	R140,R143	Telcordia Issue 1	Level I		2.00	0.002254	.0208	443576648.79
105A503309	Resistor	R146,R148,R149, R303,R304,R305, R306,R307,R308, R309,R310,R311, R312,R314,R315, R318,R319,R325, R326,R371,R372, R373,R374,R375, R376,R377,R378, R379,R380,R381, R382,R384,R399, R678,R854,R855, R857	Telcordia Issue 1	Level I		37.00	0.002254	.3849	443576648.79
105A500139	Resistor	R407,R415,R427, R439,R447,R448, R449,R451,R455, R459,R504	Telcordia Issue 1	Level I		11.00	0.002254	.1144	443576648.79
105A510009	Resistor	R181,R232,R245, R330,R331,R475, R481,R625,R631, R660,R663,R671, R720,R802,R803	Telcordia Issue 1	Level I		15.00	0.002254	.1560	443576648.79
105A522663	Resistor	R188	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A701033	Resistor	R498,R890	Telcordia Issue 1	Level I		2.00	0.002254	.0208	443576648.79
105A501003	Resistor	R256,R348,R349, R350,R351,R352, R353,R354,R355, R356,R357,R358, R359,R360,R361, R362,R363,R364, R506,R617,R852	Telcordia Issue 1	Level I		21.00	0.002254	.2184	443576648.79
105A701009	Resistor	R640,R840,R841	Telcordia Issue 1	Level I		3.00	0.002254	.0312	443576648.79
105A702263	Resistor	R821,R830,R866, R872,R874	Telcordia Issue 1	Level I		5.00	0.002254	.0520	443576648.79
105A702269	Resistor	R490	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A703909	Resistor	R213,R215,R216, R219,R229,R230, R236,R237,R650, R651,R672	Telcordia Issue 1	Level I		11.00	0.002254	.1144	443576648.79
1050510034	Resistor	R231,R564,R574, R578	Telcordia Issue 1	Level I		4.00	0.002254	.0416	443576648.79
105A533233	Resistor	R243	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A701053	Resistor	R244,R397	Telcordia Issue 1	Level I		2.00	0.002254	.0208	443576648.79
105A510053	Resistor	R246,R341	Telcordia Issue 1	Level I		2.00	0.013526	.1248	73929441.47

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Time 12:03 下午
Failure Rate 21.672217
MTBF 46,142

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A580663	Resistor	R266,R285	Telcordia Issue 1	Level I		2.00	0.002254	.0208	443576648.79
105A524963	Resistor	R280,R301,R339, R624,R642,R698	Telcordia Issue 1	Level I		6.00	0.002254	.0624	443576648.79
105A700103	Resistor	R284,R845	Telcordia Issue 1	Level I		2.00	0.002254	.0208	443576648.79
105A701203	Resistor	R294,R295,R296	Telcordia Issue 1	Level I		3.00	0.002254	.0312	443576648.79
105A554963	Resistor	R323,R340,R408, R446	Telcordia Issue 1	Level I		4.00	0.002254	.0416	443576648.79
105A520003	Resistor	R337	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A522103	Resistor	R338,R721	Telcordia Issue 1	Level I		2.00	0.002254	.0208	443576648.79
105A527463	Resistor	R410,R443	Telcordia Issue 1	Level I		2.00	0.002254	.0208	443576648.79
105A500239	Resistor	R420,R442,R444, R856,R858	Telcordia Issue 1	Level I		5.00	0.002254	.0520	443576648.79
105A706809	Resistor	R428	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A705139	Resistor	R556,R559,R560, R561,R568,R570	Telcordia Issue 1	Level I		6.00	0.002254	.0624	443576648.79
105A549913	Resistor	R690	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A549919	Resistor	R834	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
1050537434	Resistor	R835	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A502039	Resistor	R36,R652	Telcordia Issue 1	Level I		2.00	0.002254	.0208	443576648.79
105A525503	Resistor	R655	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A501523	Resistor	R659	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A549969	Resistor	R737,R738,R740, R741,R742,R743, R744,R745,R746, R747,R748,R749, R769,R770,R771, R772,R773,R774, R775,R776,R777, R778	Telcordia Issue 1	Level I		22.00	0.002254	.2288	443576648.79
105A547503	Resistor	R766	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A503033	Resistor	R796	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
1121610060	Capacitor	TC18	Telcordia Issue 1	Level I		1.00	0.004509	.0208	221788324.40
14S1230400	Integrated Circuit	U1	Telcordia Issue 1	Level I		1.00	0.058076	.2680	17218806.10
14S4021301	Integrated Circuit	U3,U36,U37,U39,U4, U40	Telcordia Issue 1	Level I		6.00	0.058076	1.6078	17218806.10
14S2200900	Integrated Circuit	U6	Telcordia Issue 1	Level I		1.00	0.058076	.2680	17218806.10
1315970211	Semiconductor	U47,U48,U7,U8	Telcordia Issue 1	Level I		4.00	0.157838	2.9132	6335593.76
14S5A12506	Integrated Circuit	U9	Telcordia Issue 1	Level I		1.00	0.025724	.1187	38873587.95
14S4730701	Integrated Circuit	U10	Telcordia Issue 1	Level I	32.50	1.00	0.497514	2.2956	2009992.63
14S4048502	Integrated Circuit	U11,U12	Telcordia Issue 1	Level I		2.00	0.058076	.5359	17218806.10
14S5A00401	Integrated Circuit	U13	Telcordia Issue 1	Level I		1.00	0.025724	.1187	38873587.95
14S5812502	Integrated Circuit	U14	Telcordia Issue 1	Level I		1.00	0.025724	.1187	38873587.95

AAEON Reliability Prediction Report

Part Number 9697945905-D
Reference Des
Date 01. 14, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.70

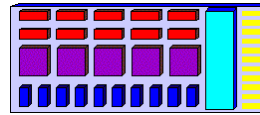


Description
File Name TF-AOP-9120HT-A1-1010.RPJ
Time 12:03 下午
Failure Rate 21.672217
MTBF 46,142

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S4811100	Integrated Circuit	U18	Telcordia Issue 1	Level I	32.00	1.00	0.141095	.6510	7087433.81
14S4811100	Integrated Circuit	U17	Telcordia Issue 1	Level I	30.30	1.00	0.129978	.5997	7693601.50
14S5A00700	Integrated Circuit	U19	Telcordia Issue 1	Level I		1.00	0.024803	.1144	40316896.46
14S5812300	Integrated Circuit	U25	Telcordia Issue 1	Level I		1.00	0.025724	.1187	38873587.95
14S428010D	Integrated Circuit	U28	Telcordia Issue 1	Level I	40.50	1.00	0.210058	.9693	4760585.44
14S4294503	Integrated Circuit	U30	Telcordia Issue 1	Level I	41.90	1.00	0.223860	1.0329	4467083.92
14S3422600	Integrated Circuit	U33	Telcordia Issue 1	Level I	60.10	1.00	2.269415	10.4715	440642.28
14S4121601	Integrated Circuit	U34	Telcordia Issue 1	Level I		1.00	0.025724	.1187	38873587.95
14S4871204	Integrated Circuit	U35	Telcordia Issue 1	Level I	40.50	1.00	0.210058	.9693	4760585.44
14S4160020	Integrated Circuit	U38	Telcordia Issue 1	Level I	42.70	1.00	0.232095	1.0709	4308580.63
14S3626100	Integrated Circuit	U42	Telcordia Issue 1	Level I		1.00	0.058076	.2680	17218806.10
1315030110	Semiconductor	Q49,Q50	Telcordia Issue 1	Level I		2.00	0.000000	.0000	.00
105A704723	Resistor	R861,R864	Telcordia Issue 1	Level I		2.00	0.002254	.0208	443576648.79
1059710003	Resistor	R863	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A703303	Resistor	R865	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A522003	Resistor	R485	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
1129701790	Capacitor	C350	Telcordia Issue 1	Level I		1.00	0.004509	.0208	221788324.40
1315170310	Semiconductor	Q61,Q62,Q70	Telcordia Issue 1	Level I		3.00	0.078919	1.0924	12671187.53
1315170310	Semiconductor	Q65	Telcordia Issue 1	Level I	43.70	1.00	0.236465	1.0911	4228964.33
105A520033	Resistor	R871	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A511313	Resistor	R876	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A500233	Resistor	R878,R887	Telcordia Issue 1	Level I		2.00	0.002254	.0208	443576648.79
105A510213	Resistor	R879	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A501623	Resistor	R880	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A532413	Resistor	R881	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
14S4653700	Integrated Circuit	U49	Telcordia Issue 1	Level I	43.50	1.00	0.938153	4.3288	1065923.99
1121701050	Capacitor	C158,C632	Telcordia Issue 1	Level I		2.00	0.004509	.0416	221788324.40
105A510523	Resistor	R886	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
1129610080	Capacitor	C626,C627,C628	Telcordia Issue 1	Level I		3.00	0.004509	.0624	221788324.40
11B2710060	Capacitor	C617	Telcordia Issue 1	Level I		1.00	0.004509	.0208	221788324.40
105A510033	Resistor	R895	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A511503	Resistor	R883	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A512103	Resistor	R891	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
105A518703	Resistor	R884	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
1050520004	Resistor	R893	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
131411171C	Integrated Circuit	U51	Telcordia Issue 1	Level I	49.00	1.00	1.268975	5.8553	788037.81

AAEON Reliability Prediction Report

Part Number 9697945905-D
Reference Des
Date 01. 14, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.70



Description
File Name TF-AOP-9120HT-A1-1010.RPJ
Time 12:03 下午
Failure Rate 21.672217
MTBF 46,142

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1314108412	Integrated Circuit	U53	Telcordia Issue 1	Level I	45.10	1.00	1.025343	4.7311	975283.14
1301053040	Semiconductor	D41	Telcordia Issue 1	Level I		1.00	0.023676	.1092	42237291.76
1122710080	Capacitor	C580	Telcordia Issue 1	Level I		1.00	0.005455	.0252	183320933.34
1122501780	Capacitor	C610,C630	Telcordia Issue 1	Level I		2.00	0.004509	.0416	221788324.40
165392521H	Connection	CN21	Telcordia Issue 1	Level I		1.00	0.028006	.1292	35707153.48
14S3170800	Integrated Circuit	U2	Telcordia Issue 1	Level I	30.70	1.00	0.446655	2.0610	2238865.61
105A705129	Resistor	R41,R527	Telcordia Issue 1	Level I		2.00	0.002254	.0208	443576648.79
105A501413	Resistor	R910	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
1189633162	Capacitor	C223,C588,C591,C62	Telcordia Issue 1	Level I		4.00	0.004509	.0832	221788324.40
1059702261	Resistor	R882,R896	Telcordia Issue 1	Level I		2.00	0.002254	.0208	443576648.79
14S4195710	Integrated Circuit	U16,U29	Telcordia Issue 1	Level I		2.00	0.058076	.5359	17218806.10
14S6334610	Integrated Circuit	U20,U21	Telcordia Issue 1	Level I		2.00	0.022444	.2071	44554490.75
105A500133	Resistor	R875,R912	Telcordia Issue 1	Level I		2.00	0.002254	.0208	443576648.79
14S2632100	Integrated Circuit	U52	Telcordia Issue 1	Level I		1.00	0.058076	.2680	17218806.10
105A703033	Resistor	R885	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
1315668510	Semiconductor	Q71	Telcordia Issue 1	Level I		1.00	0.078919	.3641	12671187.53
12123D1210	Inductor	L69,L70,L71,L72	Telcordia Issue 1	Level I		4.00	0.085667	1.5811	11673069.71
105A539223	Resistor	R42	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
1315700217	Semiconductor	Q54,Q55,Q56,Q57, Q58	Telcordia Issue 1	Level I		5.00	0.078919	1.8207	12671187.53
1129722091	Capacitor	C625	Telcordia Issue 1	Level I		1.00	0.004509	.0208	221788324.40
14S6294590	Integrated Circuit	U23	Telcordia Issue 1	Level I		1.00	0.099339	.4584	10066503.83
14S6201601	Integrated Circuit		Telcordia Issue 1	Level I		1.00	0.162608	.7503	6149748.13
105A510713	Resistor	R844	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
11C2510480	Capacitor	C313	Telcordia Issue 1	Level I		1.00	0.004509	.0208	221788324.40
1121501690	Capacitor	C245	Telcordia Issue 1	Level I		1.00	0.004509	.0208	221788324.40
105A578713	Resistor	R501	Telcordia Issue 1	Level I		1.00	0.002254	.0104	443576648.79
1315422410	Semiconductor	Q66	Telcordia Issue 1	Level I		1.00	0.078919	.3641	12671187.53
1315889612	Semiconductor	Q67,Q68	Telcordia Issue 1	Level I		2.00	0.078919	.7283	12671187.53
1315889612	Semiconductor	Q64	Telcordia Issue 1	Level I	50.80	1.00	0.275366	1.2706	3631531.67
1315889612	Semiconductor	Q74	Telcordia Issue 1	Level I	50.40	1.00	0.273058	1.2599	3662220.50
1314613010	Integrated Circuit	U50	Telcordia Issue 1	Level I		1.00	0.058076	.2680	17218806.10
175910000B	Miscellaneous	BUZZ1	Telcordia Issue 1	Level I		1.00	0.150000	.6921	6666666.67
1655004020	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.002240	.0103	446339418.46
1653004201	Connection	CN4	Telcordia Issue 1	Level I		1.00	0.004481	.0207	223169709.23
1655305020	Connection	CN5	Telcordia Issue 1	Level I		1.00	0.002801	.0129	357071534.77
1655003010	Connection	CN19	Telcordia Issue 1	Level I		1.00	0.001680	.0078	595119224.61

