

# AOP-9150 Reliability Prediction Report (MTBF)

Report NO : 10P070001

**01-05-2010**

Issue Date

**Wenyuan Yang**

Manager

**Jessica Chou**

Test Engineer

## Reliability Prediction (MTBF)

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I . **Model Name:** TF-AOP-9150HT-A1-1010

II . **Prediction Date:** Jan. 5<sup>th</sup>, 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: 25.1 degrees C
- Standard: Telcordia (Bellcore) Standard

### VII. Term and Definition:

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

### VIII. Prediction Result:

- TF-AOP-9150HT-A1-1010 (Not include Inverter, LCD, Touch screen and Power supply)  
Failure Rate: 16.025219 ppm  
MTBF: 62,402 Hours

Below components MTBF value were provided by the suppliers:

- (TF)Inverter.DC to AC.12V.4 LAMP.FOR CPT 15"CLAA150XP03 TFT LCD.華元.QF83V3.21(S)  
MTBF: 893196.079 hours
- (TF)TFT LCD.15".1024\*768.18&24 Bits.1ch LVDS Interface.AU.G150XG03 V.2  
Lamp life: Min. 50,000 hours(IRCFL=5.5mA)

- (TF)TOUCH SCREEN.15".5 Wire.Resistive.ABON.AT-150F-5RB-B08N-18R-150FH  
Knock Test: 35,000,000 times
- (TF)SPS.115/230V.1.5A.DC OUT 12V/5A.60W.POWER-WIN.PW-060B-1Y12(G)  
MTBF: 100,000 hours

### AAEON Reliability Prediction Report

**Part Number** System  
**Reference Des**  
**Date** 01. 5, 2010  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description** Top-level assembly  
**File Name** TF-AOP-9150HT-A1-1010.RPJ  
**Time** 10:45 上午  
**Failure Rate** 16.025219  
**MTBF** 62,402

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-AOP-9150HT-A1-1010	System	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	16.03	62401.65
CD ROM Transfer Board T023	9697T02302	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	.08	13071807.61
EMB-9459T-A10	9697945905-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	15.95	62712.21





### AAEON Reliability Prediction Report

**Part Number** 9697945905-D  
**Reference Des**  
**Date** 01. 5, 2010  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** TF-AOP-9150HT-A1-1010.RPJ  
**Time** 10:45 上午  
**Failure Rate** 15.945858  
**MTBF** 62,712

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	0.004544	8.4925	220055560.52
1654030003	Connection	CN7	Telcordia Issue 1	Level I		1.00	0.017159	.1076	58280118.46
165320520C	Connection	CN14,CN8,CN9	Telcordia Issue 1	Level I		3.00	0.005720	.1076	174840355.39
165321320E	Connection	CN10	Telcordia Issue 1	Level I		1.00	0.014871	.0933	67246290.53
1653205201	Connection	CN12,CN13,CN15, CN16	Telcordia Issue 1	Level I		4.00	0.005720	.1435	174840355.39
1174510180	Capacitor	CP1,CP10,CP11,CP12, CP2,CP7,CP8,CP9	Telcordia Issue 1	Level I		8.00	0.005469	.2744	182842274.63
1124533190	Capacitor	C1,C157,C163,C169, C173,C194,C195, C196,C197,C198,C2, C26	Telcordia Issue 1	Level I		12.00	0.005469	.4116	182842274.63
1124427090	Capacitor	C10,C11,C12,C199, C206,C207,C3,C34, C39,C40,C41,C42,C7, C8,C9	Telcordia Issue 1	Level I		15.00	0.004544	.4275	220055560.52
1129710090	Capacitor	C204,C205,C4,C5, C576,C577,C6,C79, C81	Telcordia Issue 1	Level I		9.00	0.004544	.2565	220055560.52
1121701790	Capacitor	BC174,BC24,C13,C14, C184,C185,C76	Telcordia Issue 1	Level I		7.00	0.004544	.1995	220055560.52
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	0.004544	1.5959	220055560.52

### AAEON Reliability Prediction Report

**Part Number** 9697945905-D  
**Reference Des**  
**Date** 01. 5, 2010  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



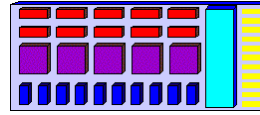
**Description**  
**File Name** TF-AOP-9150HT-A1-1010.RPJ  
**Time** 10:45 上午  
**Failure Rate** 15.945858  
**MTBF** 62,712

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	0.004544	.5700	220055560.52
11E9622050	Capacitor	C113,C114,C303, C304,C307,C308, C310,C45,C46,C51, C54	Telcordia Issue 1	Level I		11.00	0.004544	.3135	220055560.52
11E9647680	Capacitor	C220,C235,C249, C272,C48,C582,C583, C77,C78,C80,C83, C85,C96	Telcordia Issue 1	Level I		13.00	0.004544	.3705	220055560.52
11E1647650	Capacitor	C186,C187,C281, C284	Telcordia Issue 1	Level I		4.00	0.004544	.1140	220055560.52
1121701080	Capacitor	C166,C611,C612, C622,C623,C629	Telcordia Issue 1	Level I		6.00	0.004544	.1710	220055560.52
11C1501080	Capacitor	C73,C74,C87,C88, C92,C94,C98	Telcordia Issue 1	Level I		7.00	0.004544	.1995	220055560.52
1122522890	Capacitor	C242,C244,C255,C82, C84,C86,C89	Telcordia Issue 1	Level I		7.00	0.004544	.1995	220055560.52
1121647480	Capacitor	C110,C112,C243, C251,C312,C647, C648,C91	Telcordia Issue 1	Level I		8.00	0.004544	.2280	220055560.52
11C2539290	Capacitor	C100,C138,C139, C141,C143,C93,C95, C99	Telcordia Issue 1	Level I		8.00	0.004544	.2280	220055560.52
1129522790	Capacitor	C104,C105,C106, C107,C108,C160,C97	Telcordia Issue 1	Level I		7.00	0.004544	.1995	220055560.52
1124433080	Capacitor	C101,C117	Telcordia Issue 1	Level I		2.00	0.004544	.0570	220055560.52
1124412090	Capacitor	C102,C116	Telcordia Issue 1	Level I		2.00	0.004544	.0570	220055560.52
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	0.004544	1.9379	220055560.52
1124515880	Capacitor	C161	Telcordia Issue 1	Level I		1.00	0.004544	.0285	220055560.52
1124556180	Capacitor	C171	Telcordia Issue 1	Level I		1.00	0.004544	.0285	220055560.52
1124418190	Capacitor	C170	Telcordia Issue 1	Level I		1.00	0.004544	.0285	220055560.52



### AAEON Reliability Prediction Report

**Part Number** 9697945905-D  
**Reference Des**  
**Date** 01. 5, 2010  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** TF-AOP-9150HT-A1-1010.RPJ  
**Time** 10:45 上午  
**Failure Rate** 15.945858  
**MTBF** 62,712

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	0.004544	.1425	220055560.52
105A540213	Resistor	R846	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
105A514733	Resistor	R478	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
105A522113	Resistor	R503	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
105A535713	Resistor	R842	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
105A545313	Resistor	R833	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
106B701032	Resistor	RT5	Telcordia Issue 1	Level I		1.00	0.011439	.0717	87420177.69
106B747030	Resistor	RT4	Telcordia Issue 1	Level I		1.00	0.011439	.0717	87420177.69
1124405080	Capacitor	C177,C178,C179, C180,C182,C183	Telcordia Issue 1	Level I		6.00	0.005469	.2058	182842274.63
123131435B	Miscellaneous	Y5	Telcordia Issue 1	Level I		1.00	0.150000	.9407	6666666.67
1301005440	Semiconductor	D10,D21,D25,D28, D40,D42,D43	Telcordia Issue 1	Level I		7.00	0.023950	1.0514	41754194.40
1301005442	Semiconductor	D11,D12,D13,D38, D39,D44	Telcordia Issue 1	Level I		6.00	0.023950	.9012	41754194.40
1300581940	Semiconductor	D14,D23	Telcordia Issue 1	Level I		2.00	0.079832	1.0013	12526258.32
1300001440	Semiconductor	D24,D26,D27	Telcordia Issue 1	Level I		3.00	0.023950	.4506	41754194.40
1189615187	Capacitor	EC17,EC18	Telcordia Issue 1	Level I		2.00	0.004544	.0570	220055560.52
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	0.002272	.2992	440111121.05
1752001601	Miscellaneous	FS1,FS2	Telcordia Issue 1	Level I		2.00	0.003000	.0376	333333333.33
1653222209	Connection	IDE1	Telcordia Issue 1	Level I		1.00	0.025166	.1578	39736444.41
1304001340	Semiconductor	LED1	Telcordia Issue 1	Level I		1.00	0.004921	.0309	203197151.95
1304101340	Semiconductor	LED2,LED3	Telcordia Issue 1	Level I		2.00	0.004921	.0617	203197151.95
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	0.002272	.3847	440111121.05
121230603H	Inductor	L17,L41,L43,L46, L64	Telcordia Issue 1	Level I		5.00	0.002272	.0712	440111121.05
121230805Z	Inductor	L19	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
1211100102	Inductor	L25,L53	Telcordia Issue 1	Level I		2.00	0.086342	1.0829	11581871.61
121230805X	Inductor	L29,L30,L33,L42, L50	Telcordia Issue 1	Level I		5.00	0.002272	.0712	440111121.05
1211104760	Inductor	L47,L48	Telcordia Issue 1	Level I		2.00	0.002272	.0285	440111121.05
1211101002	Inductor	L51,L52	Telcordia Issue 1	Level I		2.00	0.002272	.0285	440111121.05
1231325058	Miscellaneous	Y1,Y2	Telcordia Issue 1	Level I		2.00	0.150000	1.8814	6666666.67
1654262300	Connection	MPCI1	Telcordia Issue 1	Level I		1.00	0.070922	.4448	14100028.66





### AAEON Reliability Prediction Report

**Part Number** 9697945905-D  
**Reference Des**  
**Date** 01. 5, 2010  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** TF-AOP-9150HT-A1-1010.RPJ  
**Time** 10:45 上午  
**Failure Rate** 15.945858  
**MTBF** 62,712

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	0.002272	.5700	440111121.05
105A702239	Resistor	R293,R302,R324,R50, R535,R761	Telcordia Issue 1	Level I		6.00	0.002272	.0855	440111121.05
105A501223	Resistor	R53	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
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	0.002272	.6840	440111121.05
14S5A01400	Integrated Circuit	U45,U46	Telcordia Issue 1	Level I		2.00	0.059802	.7501	16721916.86
105A733009	Resistor	R196,R404,R477, R480,R482,R509, R641,R67	Telcordia Issue 1	Level I		8.00	0.002272	.1140	440111121.05
1050502224	Resistor	R299,R313,R383, R460,R531,R533, R534,R550,R691, R704,R705,R706, R707,R90	Telcordia Issue 1	Level I		14.00	0.002272	.1995	440111121.05
105A524913	Resistor	R91,R92	Telcordia Issue 1	Level I		2.00	0.002272	.0285	440111121.05
105A700003	Resistor	R820,R860,R888,R97, R98	Telcordia Issue 1	Level I		5.00	0.002272	.0712	440111121.05
105A501039	Resistor	R413,R418,R425, R437,R473,R474, R795,R798,R799, R800,R801	Telcordia Issue 1	Level I		11.00	0.002272	.1567	440111121.05
105A514014	Resistor	R132	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
105A547033	Resistor	R136	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05

### AAEON Reliability Prediction Report

**Part Number** 9697945905-D  
**Reference Des**  
**Date** 01. 5, 2010  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** TF-AOP-9150HT-A1-1010.RPJ  
**Time** 10:45 上午  
**Failure Rate** 15.945858  
**MTBF** 62,712

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	0.002272	.0285	440111121.05
1059703623	Resistor	R140,R143	Telcordia Issue 1	Level I		2.00	0.002272	.0285	440111121.05
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	0.002272	.5272	440111121.05
105A500139	Resistor	R407,R415,R427, R439,R447,R448, R449,R451,R455, R459,R504	Telcordia Issue 1	Level I		11.00	0.002272	.1567	440111121.05
105A510009	Resistor	R181,R232,R245, R330,R331,R475, R481,R625,R631, R660,R663,R671, R720,R802,R803	Telcordia Issue 1	Level I		15.00	0.002272	.2137	440111121.05
105A522663	Resistor	R188	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
105A701033	Resistor	R498,R890	Telcordia Issue 1	Level I		2.00	0.002272	.0285	440111121.05
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	0.002272	.2992	440111121.05
105A701009	Resistor	R640,R840,R841	Telcordia Issue 1	Level I		3.00	0.002272	.0427	440111121.05
105A702263	Resistor	R821,R830,R866, R872,R874	Telcordia Issue 1	Level I		5.00	0.002272	.0712	440111121.05
105A702269	Resistor	R490	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
105A703909	Resistor	R213,R215,R216, R219,R229,R230, R236,R237,R650, R651,R672	Telcordia Issue 1	Level I		11.00	0.002272	.1567	440111121.05
1050510034	Resistor	R231,R564,R574, R578	Telcordia Issue 1	Level I		4.00	0.002272	.0570	440111121.05
105A533233	Resistor	R243	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
105A701053	Resistor	R244,R397	Telcordia Issue 1	Level I		2.00	0.002272	.0285	440111121.05
105A510053	Resistor	R246,R341	Telcordia Issue 1	Level I		2.00	0.013633	.1710	73351853.51

### AAEON Reliability Prediction Report

**Part Number** 9697945905-D  
**Reference Des**  
**Date** 01. 5, 2010  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** TF-AOP-9150HT-A1-1010.RPJ  
**Time** 10:45 上午  
**Failure Rate** 15.945858  
**MTBF** 62,712

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	0.002272	.0285	440111121.05
105A524963	Resistor	R280,R301,R339, R624,R642,R698	Telcordia Issue 1	Level I		6.00	0.002272	.0855	440111121.05
105A700103	Resistor	R284,R845	Telcordia Issue 1	Level I		2.00	0.002272	.0285	440111121.05
105A701203	Resistor	R294,R295,R296	Telcordia Issue 1	Level I		3.00	0.002272	.0427	440111121.05
105A554963	Resistor	R323,R340,R408, R446	Telcordia Issue 1	Level I		4.00	0.002272	.0570	440111121.05
105A520003	Resistor	R337	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
105A522103	Resistor	R338,R721	Telcordia Issue 1	Level I		2.00	0.002272	.0285	440111121.05
105A527463	Resistor	R410,R443	Telcordia Issue 1	Level I		2.00	0.002272	.0285	440111121.05
105A500239	Resistor	R420,R442,R444, R856,R858	Telcordia Issue 1	Level I		5.00	0.002272	.0712	440111121.05
105A706809	Resistor	R428	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
105A705139	Resistor	R556,R559,R560, R561,R568,R570	Telcordia Issue 1	Level I		6.00	0.002272	.0855	440111121.05
105A549913	Resistor	R690	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
105A549919	Resistor	R834	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
1050537434	Resistor	R835	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
105A502039	Resistor	R36,R652	Telcordia Issue 1	Level I		2.00	0.002272	.0285	440111121.05
105A525503	Resistor	R655	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
105A501523	Resistor	R659	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
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	0.002272	.3135	440111121.05
105A547503	Resistor	R766	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
105A503033	Resistor	R796	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
1121610060	Capacitor	TC18	Telcordia Issue 1	Level I		1.00	0.004544	.0285	220055560.52
14S1230400	Integrated Circuit	U1	Telcordia Issue 1	Level I		1.00	0.059802	.3750	16721916.86
14S4021301	Integrated Circuit	U3,U36,U37,U39,U4, U40	Telcordia Issue 1	Level I		6.00	0.059802	2.2502	16721916.86
14S2200900	Integrated Circuit	U6	Telcordia Issue 1	Level I		1.00	0.059802	.3750	16721916.86
1315970211	Semiconductor	U47,U48,U7,U8	Telcordia Issue 1	Level I		4.00	0.159665	4.0052	6263129.16
14S5A12506	Integrated Circuit	U9	Telcordia Issue 1	Level I		1.00	0.026337	.1652	37969565.62
14S4730701	Integrated Circuit	U10	Telcordia Issue 1	Level I		1.00	0.059802	.3750	16721916.86
14S4048502	Integrated Circuit	U11,U12	Telcordia Issue 1	Level I		2.00	0.059802	.7501	16721916.86
14S5A00401	Integrated Circuit	U13	Telcordia Issue 1	Level I		1.00	0.026337	.1652	37969565.62
14S5812502	Integrated Circuit	U14	Telcordia Issue 1	Level I		1.00	0.026337	.1652	37969565.62

### AAEON Reliability Prediction Report

**Part Number** 9697945905-D  
**Reference Des**  
**Date** 01. 5, 2010  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10

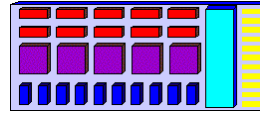


**Description**  
**File Name** TF-AOP-9150HT-A1-1010.RPJ  
**Time** 10:45 上午  
**Failure Rate** 15.945858  
**MTBF** 62,712

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S4811100	Integrated Circuit	U17,U18	Telcordia Issue 1	Level I		2.00	0.026337	.3303	37969565.62
14S5A00700	Integrated Circuit	U19	Telcordia Issue 1	Level I		1.00	0.025394	.1593	39379309.36
14S5812300	Integrated Circuit	U25	Telcordia Issue 1	Level I		1.00	0.026337	.1652	37969565.62
14S428010D	Integrated Circuit	U28	Telcordia Issue 1	Level I	42.10	1.00	0.230012	1.4425	4347603.11
14S4294503	Integrated Circuit	U30	Telcordia Issue 1	Level I	40.80	1.00	0.216863	1.3600	4611197.21
14S3422600	Integrated Circuit	U33	Telcordia Issue 1	Level I	48.80	1.00	1.282758	8.0445	779570.11
14S4121601	Integrated Circuit	U34	Telcordia Issue 1	Level I		1.00	0.026337	.1652	37969565.62
14S4871204	Integrated Circuit	U35	Telcordia Issue 1	Level I		1.00	0.026337	.1652	37969565.62
14S4160020	Integrated Circuit	U38	Telcordia Issue 1	Level I	47.70	1.00	0.294900	1.8494	3390983.76
14S3626100	Integrated Circuit	U42	Telcordia Issue 1	Level I		1.00	0.059802	.3750	16721916.86
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	0.002272	.0285	44011121.05
1059710003	Resistor	R863	Telcordia Issue 1	Level I		1.00	0.002272	.0142	44011121.05
105A703303	Resistor	R865	Telcordia Issue 1	Level I		1.00	0.002272	.0142	44011121.05
105A522003	Resistor	R485	Telcordia Issue 1	Level I		1.00	0.002272	.0142	44011121.05
1129701790	Capacitor	C350	Telcordia Issue 1	Level I		1.00	0.004544	.0285	22005560.52
1315170310	Semiconductor	Q61,Q62,Q65,Q70	Telcordia Issue 1	Level I		4.00	0.079832	2.0026	12526258.32
105A520033	Resistor	R871	Telcordia Issue 1	Level I		1.00	0.002272	.0142	44011121.05
105A511313	Resistor	R876	Telcordia Issue 1	Level I		1.00	0.002272	.0142	44011121.05
105A500233	Resistor	R878,R887	Telcordia Issue 1	Level I		2.00	0.002272	.0285	44011121.05
105A510213	Resistor	R879	Telcordia Issue 1	Level I		1.00	0.002272	.0142	44011121.05
105A501623	Resistor	R880	Telcordia Issue 1	Level I		1.00	0.002272	.0142	44011121.05
105A532413	Resistor	R881	Telcordia Issue 1	Level I		1.00	0.002272	.0142	44011121.05
14S4653700	Integrated Circuit	U49	Telcordia Issue 1	Level I		1.00	0.059802	.3750	16721916.86
1121701050	Capacitor	C158,C632	Telcordia Issue 1	Level I		2.00	0.004544	.0570	22005560.52
105A510523	Resistor	R886	Telcordia Issue 1	Level I		1.00	0.002272	.0142	44011121.05
1129610080	Capacitor	C626,C627,C628	Telcordia Issue 1	Level I		3.00	0.004544	.0855	22005560.52
11B2710060	Capacitor	C617	Telcordia Issue 1	Level I		1.00	0.004544	.0285	22005560.52
105A510033	Resistor	R895	Telcordia Issue 1	Level I		1.00	0.002272	.0142	44011121.05
105A511503	Resistor	R883	Telcordia Issue 1	Level I		1.00	0.002272	.0142	44011121.05
105A512103	Resistor	R891	Telcordia Issue 1	Level I		1.00	0.002272	.0142	44011121.05
105A518703	Resistor	R884	Telcordia Issue 1	Level I		1.00	0.002272	.0142	44011121.05
1050520004	Resistor	R893	Telcordia Issue 1	Level I		1.00	0.002272	.0142	44011121.05
131411171C	Integrated Circuit	U51	Telcordia Issue 1	Level I		1.00	0.059802	.3750	16721916.86
1314108412	Integrated Circuit	U53	Telcordia Issue 1	Level I		1.00	0.059802	.3750	16721916.86
1301053040	Semiconductor	D41	Telcordia Issue 1	Level I		1.00	0.023950	.1502	41754194.40

### AAEON Reliability Prediction Report

**Part Number** 9697945905-D  
**Reference Des**  
**Date** 01. 5, 2010  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.10



**Description**  
**File Name** TF-AOP-9150HT-A1-1010.RPJ  
**Time** 10:45 上午  
**Failure Rate** 15.945858  
**MTBF** 62,712

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1122710080	Capacitor	C580	Telcordia Issue 1	Level I		1.00	0.005469	.0343	182842274.63
1122501780	Capacitor	C610,C630	Telcordia Issue 1	Level I		2.00	0.004544	.0570	220055560.52
165392521H	Connection	CN21	Telcordia Issue 1	Level I		1.00	0.028598	.1793	34968071.08
14S3170800	Integrated Circuit	U2	Telcordia Issue 1	Level I		1.00	0.059802	.3750	16721916.86
105A705129	Resistor	R41,R527	Telcordia Issue 1	Level I		2.00	0.002272	.0285	440111121.05
105A501413	Resistor	R910	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
1189633162	Capacitor	C223,C588,C591,C62	Telcordia Issue 1	Level I		4.00	0.004544	.1140	220055560.52
1059702261	Resistor	R882,R896	Telcordia Issue 1	Level I		2.00	0.002272	.0285	440111121.05
14S4195710	Integrated Circuit	U16,U29	Telcordia Issue 1	Level I		2.00	0.059802	.7501	16721916.86
14S6334610	Integrated Circuit	U20,U21	Telcordia Issue 1	Level I		2.00	0.023111	.2899	43268765.90
105A500133	Resistor	R875,R912	Telcordia Issue 1	Level I		2.00	0.002272	.0285	440111121.05
14S2632100	Integrated Circuit	U52	Telcordia Issue 1	Level I		1.00	0.059802	.3750	16721916.86
105A703033	Resistor	R885	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
1315668510	Semiconductor	Q71	Telcordia Issue 1	Level I		1.00	0.079832	.5006	12526258.32
12123D1210	Inductor	L69,L70,L71,L72	Telcordia Issue 1	Level I		4.00	0.086342	2.1659	11581871.61
105A539223	Resistor	R42	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
1315700217	Semiconductor	Q54,Q55,Q56,Q57, Q58	Telcordia Issue 1	Level I		5.00	0.079832	2.5032	12526258.32
1129722091	Capacitor	C625	Telcordia Issue 1	Level I		1.00	0.004544	.0285	220055560.52
14S6294590	Integrated Circuit	U23	Telcordia Issue 1	Level I		1.00	0.103043	.6462	9704707.35
14S6201601	Integrated Circuit		Telcordia Issue 1	Level I		1.00	0.168670	1.0578	5928722.32
105A510713	Resistor	R844	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
11C2510480	Capacitor	C313	Telcordia Issue 1	Level I		1.00	0.004544	.0285	220055560.52
1121501690	Capacitor	C245	Telcordia Issue 1	Level I		1.00	0.004544	.0285	220055560.52
105A578713	Resistor	R501	Telcordia Issue 1	Level I		1.00	0.002272	.0142	440111121.05
1315422410	Semiconductor	Q66	Telcordia Issue 1	Level I		1.00	0.079832	.5006	12526258.32
1315889612	Semiconductor	Q64,Q67,Q68,Q74	Telcordia Issue 1	Level I		4.00	0.079832	2.0026	12526258.32
1314613010	Integrated Circuit	U50	Telcordia Issue 1	Level I		1.00	0.059802	.3750	16721916.86
175910000B	Miscellaneous	BUZZ1	Telcordia Issue 1	Level I		1.00	0.150000	.9407	6666666.67
1655004020	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.002288	.0143	437100888.47
1653004201	Connection	CN4	Telcordia Issue 1	Level I		1.00	0.004576	.0287	218550444.24
1655305020	Connection	CN5	Telcordia Issue 1	Level I		1.00	0.002860	.0179	349680710.78
1655003010	Connection	CN19	Telcordia Issue 1	Level I		1.00	0.001716	.0108	582801184.63
1653005200	Connection	CN20	Telcordia Issue 1	Level I		1.00	0.022878	.1435	43710088.85
16515C0492	Connection	DIMM1	Telcordia Issue 1	Level I		1.00	0.001144	.0072	874201776.95
1119622196	Capacitor	EC1,EC2,EC4	Telcordia Issue 1	Level I		3.00	0.071494	1.3451	13987228.43
1119633191	Capacitor	EC14,EC22	Telcordia Issue 1	Level I		2.00	0.042896	.5380	23312047.39



