

AEC-6620

Reliability Prediction Report

(MTBF)

Summary	Failure Rate: 20.818275 ppm MTBF: 48,035 Hours
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Issue date	Approval	Test Engineer
2010/05/14	Jansin Lee	Jessica Chou

Reliability Prediction (MTBF)

I . Model Name: TF-AEC-6620-A1-1010

II . Prediction Date: May 14, 2010

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

IV . Predicted by: Jessica Chou

V . Equipment: Relx Ver.7.3 Visual Reliability Software

VI. Simulation Environment:

- Temperature: 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-AEC-6620-A1-1010

- Failure Rate: 20.818275 ppm

- MTBF: 48,035 Hours

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 05. 14, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.70



Description Top-level assembly
File Name TF-AEC-6620-A1-1010.RPJ
Time 5:10 下午
Failure Rate 20.818275
MTBF 48,035

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-AEC-6620-A1-1010	System	Bellcore Issue 6	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	20.82	48034.72
EPIC-9457-A10	9697945709-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	20.82	48034.72

AAEON Reliability Prediction Report

Part Number 9697945709-D
Reference Des
Date 05. 14, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.70



Description
File Name TF-AEC-6620-A1-1010.RPJ
Time 5:10 下午
Failure Rate 20.818275
MTBF 48,035

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
165301320B	Connection	CN12	Telcordia Issue 1	Level I		1.00	0.014563	.0700	68667602.84
105A507509	Resistor	R276,R278,R280	Telcordia Issue 1	Level I		3.00	0.002254	.0325	443576648.79
121110226C	Inductor	L9	Telcordia Issue 1	Level I		1.00	0.085667	.4115	11673069.71
1654030003	Connection	CN4,CN7	Telcordia Issue 1	Level I		2.00	0.016803	.1614	59511922.46
1653007204	Connection	CN6	Telcordia Issue 1	Level I		1.00	0.196039	.9417	5101021.93
1655909032	Connection	CN18	Telcordia Issue 1	Level I		1.00	0.005041	.0242	198373074.87
1231325058	Miscellaneous	Y5,Y6	Telcordia Issue 1	Level I		2.00	0.150000	1.4410	6666666.67
123131435B	Miscellaneous	Y1,Y4	Telcordia Issue 1	Level I		2.00	0.150000	1.4410	6666666.67
1129701790	Capacitor	C1,C121,C186,C241, C483,C485,C496, C518,C52,C520,C524, C556,C561,C664	Telcordia Issue 1	Level I		14.00	0.004509	.3032	221788324.40
1121501690	Capacitor	C10,C100,C104,C108, C109,C11,C110,C12, C123,C124,C132, C133,C134,C137,C14, C140,C142,C148, C149,C150,C151, C152,C153,C155, C165,C167,C168, C170,C178,C179, C183,C194,C198, C199,C2,C200,C204, C207,C213,C214, C216,C217,C221,	Telcordia Issue 1	Level I		277.00	0.004509	5.9992	221788324.40
11E9510050	Capacitor	C15,C176,C283,C3, C32,C38,C394,C421, C424,C448,C515, C523,C575,C577, C590,C596,C597, C625,C626,C627, C628,C638,C9	Telcordia Issue 1	Level I		23.00	0.004509	.4981	221788324.40
1124533190	Capacitor	C246,C264,C285, C286,C289,C291, C292,C331,C4,C55	Telcordia Issue 1	Level I		10.00	0.004509	.2166	221788324.40
11E1647650	Capacitor	C138,C141,C5,C6	Telcordia Issue 1	Level I		4.00	0.004509	.0866	221788324.40
11B2701690	Capacitor	C13,C21,C262,C8	Telcordia Issue 1	Level I		4.00	0.004509	.0866	221788324.40
11C1501080	Capacitor	C16	Telcordia Issue 1	Level I		1.00	0.004509	.0217	221788324.40
1129722091	Capacitor	C17,C18,C22	Telcordia Issue 1	Level I		3.00	0.004509	.0650	221788324.40

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Description
File Name TF-AEC-6620-A1-1010.RPJ
Time 5:10 下午
Failure Rate 20.818275
MTBF 48,035

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1129610080	Capacitor	C122,C135,C136, C139,C145,C146,C19, C242,C258,C270, C272,C309,C31,C313, C327,C329,C330, C332,C339,C343, C345,C348,C366, C375,C388,C395, C401,C41,C435,C438, C439,C451,C460, C461,C462,C463, C464,C47,C49,C490, C491,C492,C494,	Telcordia Issue 1	Level I		68.00	0.004509	1.4727	221788324.40
1129710390	Capacitor	C191,C20,C203,C237, C251,C28,C29,C613, C614,C658,C661	Telcordia Issue 1	Level I		11.00	0.004509	.2382	221788324.40
11E9501091	Capacitor	C117,C209,C222,C25, C256,C26,C265,C27, C287,C293,C295,C30, C307,C326,C328,C34, C352,C362,C37,C370, C372,C396,C40,C400, C413,C43,C446,C46, C48,C51,C521,C536, C537,C54,C546,C57, C587,C588,C589, C591,C592,C594, C595,C599,C600, C601,C602,C609,	Telcordia Issue 1	Level I		62.00	0.004509	1.3428	221788324.40
11E9522680	Capacitor	C101,C102,C115, C127,C130,C177, C290,C56	Telcordia Issue 1	Level I		8.00	0.004509	.1733	221788324.40
1124427090	Capacitor	C126,C131,C173, C174,C181,C182, C205,C208,C218, C219,C228,C231, C232,C233,C234,C73	Telcordia Issue 1	Level I		16.00	0.004509	.3465	221788324.40
1124547290	Capacitor	C112,C113,C118, C119,C120,C125,C81, C83	Telcordia Issue 1	Level I		8.00	0.004509	.1733	221788324.40
1129710090	Capacitor	C103,C197,C201, C210,C211,C212, C226,C227,C497,C99	Telcordia Issue 1	Level I		10.00	0.004509	.2166	221788324.40
11B9747490	Capacitor	C106,C422,C443, C449	Telcordia Issue 1	Level I		4.00	0.004509	.0866	221788324.40

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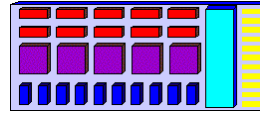


Description
File Name TF-AEC-6620-A1-1010.RPJ
Time 5:10 下午
Failure Rate 20.818275
MTBF 48,035

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1124547190	Capacitor	C143,C215,C639,C640,C643,C644,C645,C646,C648	Telcordia Issue 1	Level I		9.00	0.004509	.1949	221788324.40
1124405080	Capacitor	C144,C154,C161,C163,C502,C504	Telcordia Issue 1	Level I		6.00	0.004509	.1299	221788324.40
1124410190	Capacitor	C147,C157,C160,C162,C164,C166,C169,C171,C172,C175,C180,C184,C185,C187,C188,C189,C190,C229, C315	Telcordia Issue 1	Level I		19.00	0.004509	.4115	221788324.40
1124518280	Capacitor	C156	Telcordia Issue 1	Level I		1.00	0.004509	.0217	221788324.40
1129747090	Capacitor	C158,C663	Telcordia Issue 1	Level I		2.00	0.004509	.0433	221788324.40
11E1547090	Capacitor	C206,C634,C635	Telcordia Issue 1	Level I		3.00	0.004509	.0650	221788324.40
1124518180	Capacitor	C224	Telcordia Issue 1	Level I		1.00	0.004509	.0217	221788324.40
11A4415080	Capacitor	C225	Telcordia Issue 1	Level I		1.00	0.004509	.0217	221788324.40
11C4510380	Capacitor	C236	Telcordia Issue 1	Level I		1.00	0.004509	.0217	221788324.40
11E9647680	Capacitor	C202,C239,C249,C253,C304,C334,C337,C351,C391,C417,C418,C419,C429,C473,C474, C511,C512	Telcordia Issue 1	Level I		17.00	0.004509	.3682	221788324.40
1189615160	Capacitor	C244,TC6	Telcordia Issue 1	Level I		2.00	0.004509	.0433	221788324.40
11C2510190	Capacitor	C273,C274	Telcordia Issue 1	Level I		2.00	0.004509	.0433	221788324.40
1124522280	Capacitor	C487	Telcordia Issue 1	Level I		1.00	0.004509	.0217	221788324.40
11C4515190	Capacitor	C672,C673	Telcordia Issue 1	Level I		2.00	0.004509	.0433	221788324.40
16515A0997	Connection	DIMM1	Telcordia Issue 1	Level I		1.00	0.112022	.5381	8926788.37
1301005440	Semiconductor	D1,D12,D14,D15,D17, D20	Telcordia Issue 1	Level I		6.00	0.023676	.6824	42237291.76
1300001440	Semiconductor	D3,D4	Telcordia Issue 1	Level I		2.00	0.023676	.2275	42237291.76
1301005442	Semiconductor	D13,D16,D5	Telcordia Issue 1	Level I		3.00	0.023676	.3412	42237291.76
1305100541	Semiconductor	D21,D22,D23,D24,D27,D30,D31,D32,D33,D34,D35,D36,D37,D38,D39,D40,D41,D42,D7,D8,D9	Telcordia Issue 1	Level I		21.00	0.023676	2.3882	42237291.76
1301053040	Semiconductor	D18,D19,D43	Telcordia Issue 1	Level I		3.00	0.023676	.3412	42237291.76
1305099140	Semiconductor	D25,D26	Telcordia Issue 1	Level I		2.00	0.078919	.7582	12671187.53
1301002240	Semiconductor	D29	Telcordia Issue 1	Level I		1.00	0.023676	.1137	42237291.76
1300581940	Semiconductor	D44	Telcordia Issue 1	Level I		1.00	0.078919	.3791	12671187.53

AAEON Reliability Prediction Report

Part Number 9697945709-D
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Date 05. 14, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.70



Description
File Name TF-AEC-6620-A1-1010.RPJ
Time 5:10 下午
Failure Rate 20.818275
MTBF 48,035

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1059700001	Resistor	FB1,FB2,FB21,FB24,FB25,FB6,FB7,L10,L31,L32,R12,R162,R267,R341,R500, R536,R620,R96	Telcordia Issue 1	Level I		18.00	0.002254	.1949	443576648.79
1212306030	Inductor	FB17,FB18,FB19,FB20,FB26,L29,L34,L35,L40,L41,L42	Telcordia Issue 1	Level I		11.00	0.002254	.1191	443576648.79
12123B0006	Inductor	FB10	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
12123C0007	Inductor	FB12,FB13,FB14	Telcordia Issue 1	Level I		3.00	0.002254	.0325	443576648.79
12123C0006	Inductor	FB15,FB16	Telcordia Issue 1	Level I		2.00	0.002254	.0217	443576648.79
1212306035	Inductor	FB22,FB23,L16,L17,L18,L20,L21,L22, L23,L4,L5	Telcordia Issue 1	Level I		11.00	0.002254	.1191	443576648.79
1752001900	Miscellaneous	FS1	Telcordia Issue 1	Level I		1.00	0.003000	.0144	333333333.33
1752001601	Miscellaneous	FS2,FS4	Telcordia Issue 1	Level I		2.00	0.003000	.0288	333333333.33
1304001340	Semiconductor	LED1,LED2,LED3, LED4	Telcordia Issue 1	Level I		4.00	0.004744	.0912	210772446.23
1211000180	Inductor	L1,L11,L2	Telcordia Issue 1	Level I		3.00	0.002254	.0325	443576648.79
121230603S	Inductor	L12	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
1211100102	Inductor	L26,L6	Telcordia Issue 1	Level I		2.00	0.085667	.8230	11673069.71
121230603Z	Inductor	L30,L7,L8	Telcordia Issue 1	Level I		3.00	0.002254	.0325	443576648.79
1231332721	Miscellaneous	Y2	Telcordia Issue 1	Level I		1.00	0.150000	.7205	6666666.67
12123C0005	Inductor	L13,L14,L15	Telcordia Issue 1	Level I		3.00	0.002254	.0325	443576648.79
121110100P	Inductor	L19,L25	Telcordia Issue 1	Level I		2.00	0.085667	.8230	11673069.71
1212308054	Inductor	L24	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
1214309000	Inductor	L27,L28,L36,L37, L38,L39	Telcordia Issue 1	Level I		6.00	0.002254	.0650	443576648.79
1310390410	Semiconductor	Q19,Q2,Q25,Q29,Q42, Q43,Q49	Telcordia Issue 1	Level I		7.00	0.023676	.7961	42237291.76
1315230511	Semiconductor	Q3,Q44	Telcordia Issue 1	Level I		2.00	0.078919	.7582	12671187.53
1315441014	Semiconductor	Q35,Q6	Telcordia Issue 1	Level I		2.00	0.078919	.7582	12671187.53
1315441014	Semiconductor	Q5	Telcordia Issue 1	Level I	52.40	1.00	0.284738	1.3677	3511999.56
1311390610	Semiconductor	Q15,Q46	Telcordia Issue 1	Level I		2.00	0.023676	.2275	42237291.76
14S3524700	Integrated Circuit	Q16	Telcordia Issue 1	Level I		1.00	0.058076	.2790	17218806.10
1315230300	Semiconductor	Q21	Telcordia Issue 1	Level I		1.00	0.078919	.3791	12671187.53
1315313800	Semiconductor	Q30	Telcordia Issue 1	Level I		1.00	0.078919	.3791	12671187.53
1311138610	Semiconductor	Q47,Q48,Q50,Q51	Telcordia Issue 1	Level I		4.00	0.023676	.4549	42237291.76
1315441012	Semiconductor	Q53	Telcordia Issue 1	Level I		1.00	0.078919	.3791	12671187.53
1540782282	Resistor	RP16,RP17,RP2,RP3, RP4,RP5	Telcordia Issue 1	Level I		6.00	0.012322	.3551	81158110.78
1540710084	Resistor	RP10,RP11,RP12,RP13,RP6,RP7,RP8, RP9	Telcordia Issue 1	Level I		8.00	0.006161	.2367	162316221.55
1540710280	Resistor	RP14,RP15	Telcordia Issue 1	Level I		2.00	0.006161	.0592	162316221.55

AAEON Reliability Prediction Report

Part Number 9697945709-D
Reference Des
Date 05. 14, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.70



Description
File Name TF-AEC-6620-A1-1010.RPJ
Time 5:10 下午
Failure Rate 20.818275
MTBF 48,035

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
106B501032	Resistor	RT1,RT2,RT3	Telcordia Issue 1	Level I		3.00	0.011202	.1614	89267883.69
1059510031	Resistor	RT4	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A733009	Resistor	R1,R532,R627,R629, R8,R9	Telcordia Issue 1	Level I		6.00	0.002254	.0650	443576648.79
105A700009	Resistor	C604,C605,C606, C607,C618,C619, C620,C621,R109, R125,R127,R132, R144,R145,R156, R198,R2,R204,R23, R258,R259,R263, R274,R285,R291, R292,R3,R309,R31, R317,R332,R359, R360,R372,R374, R376,R382,R393, R395,R4,R407,R4	Telcordia Issue 1	Level I		82.00	0.002254	.8880	443576648.79
105A510009	Resistor	R11,R297,R298,R391, R420,R451,R469, R497,R499,R578, R579	Telcordia Issue 1	Level I		11.00	0.002254	.1191	443576648.79
105A704729	Resistor	R115,R14,R149,R15, R183,R191,R194,R20, R214,R231,R255, R331,R348,R349,R38, R39,R394,R408,R412, R419,R471,R480, R491,R50,R52,R522, R540,R556,R591, R592,R594,R612, R613	Telcordia Issue 1	Level I		33.00	0.002254	.3574	443576648.79
105A502033	Resistor	R18,R19,R46	Telcordia Issue 1	Level I		3.00	0.002254	.0325	443576648.79
105A510213	Resistor	R22	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A700003	Resistor	FB11,FB3,FB4,FB8, FB9,R16,R165,R24, R25,R261,R268,R306, R334,R335,R541, R580,R69	Telcordia Issue 1	Level I		17.00	0.002254	.1841	443576648.79
105A702263	Resistor	R26,R357	Telcordia Issue 1	Level I		2.00	0.002254	.0217	443576648.79
105A501039	Resistor	R27,R40,R44	Telcordia Issue 1	Level I		3.00	0.002254	.0325	443576648.79
105A502423	Resistor	R28	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A522663	Resistor	R30	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A509133	Resistor	R35	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79

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Part Number 9697945709-D
Reference Des
Date 05. 14, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.70



Description
File Name TF-AEC-6620-A1-1010.RPJ
Time 5:10 下午
Failure Rate 20.818275
MTBF 48,035

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A702229	Resistor	R101,R104,R179, R308,R344,R345, R346,R347,R36,R37, R388,R389,R396, R450,R453,R457, R502,R511	Telcordia Issue 1	Level I		18.00	0.002254	.1949	443576648.79
105A701009	Resistor	R190,R208,R211, R217,R220,R226, R229,R234,R235, R237,R238,R239, R240,R243,R244, R249,R250,R370,R41, R437,R501,R622	Telcordia Issue 1	Level I		22.00	0.002254	.2382	443576648.79
105A700139	Resistor	R166,R178,R189, R192,R197,R202, R210,R212,R216, R222,R225,R230, R233,R245,R246, R247,R257,R260, R343,R350,R375, R397,R400,R415, R418,R43,R434,R448, R533,R538,R539, R636,R640,R87,R88	Telcordia Issue 1	Level I		35.00	0.002254	.3790	443576648.79
105A702209	Resistor	R270,R273,R294, R296,R358,R368,R49, R569	Telcordia Issue 1	Level I		8.00	0.002254	.0866	443576648.79
105A703909	Resistor	R406,R410,R417,R51, R53,R64	Telcordia Issue 1	Level I		6.00	0.002254	.0650	443576648.79
105A703309	Resistor	R172,R173,R174, R175,R176,R177, R182,R223,R224, R443,R444,R445,R54, R60	Telcordia Issue 1	Level I		14.00	0.002254	.1516	443576648.79
105A515009	Resistor	R184,R195,R196, R200,R201,R209, R213,R218,R256, R277,R279,R281, R446,R456,R463,R55, R554,R59,R63	Telcordia Issue 1	Level I		19.00	0.002254	.2058	443576648.79
105A708229	Resistor	R117,R118,R119, R120,R121,R122, R142,R319,R320, R323,R452,R460, R468,R490,R527, R601,R605,R65,R66	Telcordia Issue 1	Level I		19.00	0.002254	.2058	443576648.79

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Environment GF, GU - Ground Fixed, Uncontrolled
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Time 5:10 下午
Failure Rate 20.818275
MTBF 48,035

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A705609	Resistor	R107,R108,R110, R111,R113,R114, R129,R130,R134, R135,R136,R137, R140,R141,R153, R154,R158,R251, R252,R253,R254, R514,R543,R544, R558,R560,R566, R574,R67,R70,R73, R77,R78,R82,R84, R85,R94,R98,R99	Telcordia Issue 1	Level I		39.00	0.002254	.4223	443576648.79
105A705139	Resistor	R157,R193,R205, R505,R68,R93	Telcordia Issue 1	Level I		6.00	0.002254	.0650	443576648.79
105A710053	Resistor	R100,R509,R74	Telcordia Issue 1	Level I		3.00	0.013526	.1949	73929441.47
105A580663	Resistor	R75,R81	Telcordia Issue 1	Level I		2.00	0.002254	.0217	443576648.79
105A701039	Resistor	R116,R123,R124, R160,R185,R186, R187,R219,R221, R227,R228,R242, R282,R283,R286, R290,R293,R295, R311,R324,R325, R326,R327,R328, R329,R330,R339, R342,R351,R352, R353,R354,R377, R404,R405,R409, R414,R421,R429,	Telcordia Issue 1	Level I		67.00	0.002254	.7255	443576648.79
1050512164	Resistor	R102,R103,R180, R181	Telcordia Issue 1	Level I		4.00	0.002254	.0433	443576648.79
1050524904	Resistor	R131,R143,R379, R413,R477,R495	Telcordia Issue 1	Level I		6.00	0.002254	.0650	443576648.79
105A700103	Resistor	R133,R336,R432, R439,R455,R461	Telcordia Issue 1	Level I		6.00	0.002254	.0650	443576648.79
105A710039	Resistor	R384,R401,R478, R628,R632,R633	Telcordia Issue 1	Level I		6.00	0.002254	.0650	443576648.79
105A747003	Resistor	R155,R161	Telcordia Issue 1	Level I		2.00	0.002254	.0217	443576648.79
105A554969	Resistor	R164,R232,R483, R496	Telcordia Issue 1	Level I		4.00	0.002254	.0433	443576648.79
105A527463	Resistor	R167,R236	Telcordia Issue 1	Level I		2.00	0.002254	.0217	443576648.79
105A510733	Resistor	R206	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
1315889611	Semiconductor	U48	Telcordia Issue 1	Level I		1.00	0.078919	.3791	12671187.53
105A501233	Resistor	R215	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79

AAEON Reliability Prediction Report

Part Number 9697945709-D
Reference Des
Date 05. 14, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.70

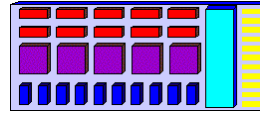


Description
File Name TF-AEC-6620-A1-1010.RPJ
Time 5:10 下午
Failure Rate 20.818275
MTBF 48,035

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A549919	Resistor	R241,R248,R440, R515,R516,R549, R550	Telcordia Issue 1	Level I		7.00	0.002254	.0758	443576648.79
105A513033	Resistor	R262,R269	Telcordia Issue 1	Level I		2.00	0.002254	.0217	443576648.79
105A701533	Resistor	R284	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A706823	Resistor	R287,R288,R552, R564	Telcordia Issue 1	Level I		4.00	0.002254	.0433	443576648.79
105A549903	Resistor	R289,R492	Telcordia Issue 1	Level I		2.00	0.002254	.0217	443576648.79
105A502223	Resistor	R312	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A501623	Resistor	R313	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A700133	Resistor	R314	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A511313	Resistor	R315	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A532413	Resistor	R318	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A507533	Resistor	R338	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A506823	Resistor	R362	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A501413	Resistor	R602,R635	Telcordia Issue 1	Level I		2.00	0.002254	.0217	443576648.79
105A501523	Resistor	R430	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A733033	Resistor	R433	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A525503	Resistor	R436	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A701053	Resistor	R447,R562,R589	Telcordia Issue 1	Level I		3.00	0.002254	.0325	443576648.79
105A522103	Resistor	R474,R493	Telcordia Issue 1	Level I		2.00	0.002254	.0217	443576648.79
105A500139	Resistor	R531,R547,R573, R581,R582,R585, R586,R587,R588, R606	Telcordia Issue 1	Level I		10.00	0.002254	.1083	443576648.79
105A520003	Resistor	R170,R356,R494	Telcordia Issue 1	Level I		3.00	0.002254	.0325	443576648.79
105A500239	Resistor	R542,R583,R590	Telcordia Issue 1	Level I		3.00	0.002254	.0325	443576648.79
105A705123	Resistor	R548	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A503033	Resistor	R557	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A547033	Resistor	R561	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A706803	Resistor	R570	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A501223	Resistor	R623	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A588703	Resistor	R625	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A502833	Resistor	R207,R630	Telcordia Issue 1	Level I		2.00	0.002254	.0217	443576648.79
1189622150	Capacitor	TC14,TC17,TC18, TC19,TC2,TC20,TC22	Telcordia Issue 1	Level I		7.00	0.004509	.1516	221788324.40
1189633160	Capacitor	TC10,TC23,TC24, TC25,TC4,TC5,TC9	Telcordia Issue 1	Level I		7.00	0.004509	.1516	221788324.40
1182622080	Capacitor	TC11	Telcordia Issue 1	Level I		1.00	0.004509	.0217	221788324.40
1189647180	Capacitor	TC15,TC21,TC30, TC31	Telcordia Issue 1	Level I		4.00	0.004509	.0866	221788324.40

AAEON Reliability Prediction Report

Part Number 9697945709-D
Reference Des
Date 05. 14, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.70



Description
File Name TF-AEC-6620-A1-1010.RPJ
Time 5:10 下午
Failure Rate 20.818275
MTBF 48,035

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1189633181	Capacitor	TC28,TC29	Telcordia Issue 1	Level I		2.00	0.004509	.0433	221788324.40
1315970211	Semiconductor	U47,U49,U50	Telcordia Issue 1	Level I		3.00	0.157838	2.2745	6335593.76
14S4653700	Integrated Circuit	U1	Telcordia Issue 1	Level I		1.00	0.058076	.2790	17218806.10
14S2041700	Integrated Circuit	U3	Telcordia Issue 1	Level I		1.00	0.025724	.1236	38873587.95
14S3065500	Integrated Circuit	U4	Telcordia Issue 1	Level I	46.80	1.00	1.125859	5.4080	888210.75
14S4730802	Integrated Circuit	U5	Telcordia Issue 1	Level I		1.00	0.058076	.2790	17218806.10
14S428010D	Integrated Circuit	U7	Telcordia Issue 1	Level I	39.30	1.00	0.198824	.9550	5029573.06
14S4021301	Integrated Circuit	U14,U19,U25,U8	Telcordia Issue 1	Level I		4.00	0.058076	1.1159	17218806.10
14S4294503	Integrated Circuit	U10	Telcordia Issue 1	Level I	36.40	1.00	0.173809	.8349	5753429.78
14S4048502	Integrated Circuit	U15,U20	Telcordia Issue 1	Level I		2.00	0.058076	.5579	17218806.10
14S5A12506	Integrated Circuit	U16	Telcordia Issue 1	Level I		1.00	0.025724	.1236	38873587.95
14S4081110	Integrated Circuit	U41	Telcordia Issue 1	Level I		1.00	0.058076	.2790	17218806.10
14S3050100	Integrated Circuit	U18	Telcordia Issue 1	Level I	38.00	1.00	0.686746	3.2988	1456141.94
14S6308001	Integrated Circuit	U21,U22	Telcordia Issue 1	Level I		2.00	0.035103	.3372	28487843.27
14S5A00401	Integrated Circuit	U23	Telcordia Issue 1	Level I		1.00	0.025724	.1236	38873587.95
14S5812502	Integrated Circuit	U24	Telcordia Issue 1	Level I		1.00	0.025724	.1236	38873587.95
14S4878100	Integrated Circuit	U26	Telcordia Issue 1	Level I	39.80	1.00	0.203440	.9772	4915461.72
14S3387201	Integrated Circuit	U27	Telcordia Issue 1	Level I		1.00	0.058076	.2790	17218806.10
14S4160020	Integrated Circuit	U28	Telcordia Issue 1	Level I		1.00	0.025724	.1236	38873587.95
14S4825740	Integrated Circuit	U30	Telcordia Issue 1	Level I	42.50	1.00	0.230012	1.1049	4347603.11
14S4825740	Integrated Circuit	U29	Telcordia Issue 1	Level I	41.10	1.00	0.215880	1.0370	4632210.06
14S5812300	Integrated Circuit	U31	Telcordia Issue 1	Level I		1.00	0.025724	.1236	38873587.95
14S3128421	Integrated Circuit	U32	Telcordia Issue 1	Level I		1.00	0.058076	.2790	17218806.10
14S2200900	Integrated Circuit	U34	Telcordia Issue 1	Level I		1.00	0.058076	.2790	17218806.10
1315155510	Semiconductor	U35,U36,U37	Telcordia Issue 1	Level I		3.00	0.157838	2.2745	6335593.76
14S2045400	Integrated Circuit	U38	Telcordia Issue 1	Level I		1.00	0.058076	.2790	17218806.10
14S4195710	Integrated Circuit	U51,U54	Telcordia Issue 1	Level I		2.00	0.058076	.5579	17218806.10
14S5A00700	Integrated Circuit	U44	Telcordia Issue 1	Level I		1.00	0.024803	.1191	40316896.46
165392521H	Connection	CN26	Telcordia Issue 1	Level I		1.00	0.028006	.1345	35707153.48
1315700217	Semiconductor	Q1,Q10,Q11,Q12,Q13, Q14,Q20,Q22,Q23, Q24,Q26,Q27,Q28, Q36,Q37,Q38,Q39, Q45,Q52,Q54,Q7,Q8, Q9	Telcordia Issue 1	Level I		23.00	0.078919	8.7190	12671187.53
1314780511	Integrated Circuit	U2	Telcordia Issue 1	Level I		1.00	0.058076	.2790	17218806.10
165300420L	Connection	CN28	Telcordia Issue 1	Level I		1.00	0.004481	.0215	223169709.23
1752011000	Miscellaneous	FS3	Telcordia Issue 1	Level I		1.00	0.003000	.0144	33333333.33

AAEON Reliability Prediction Report

Part Number 9697945709-D
Reference Des
Date 05. 14, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.70



Description
File Name TF-AEC-6620-A1-1010.RPJ
Time 5:10 下午
Failure Rate 20.818275
MTBF 48,035

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1314108412	Integrated Circuit	U40,U46	Telcordia Issue 1	Level I		2.00	0.058076	.5579	17218806.10
105A533003	Resistor	R363,R553	Telcordia Issue 1	Level I		2.00	0.002254	.0217	443576648.79
1314638110	Integrated Circuit	U11	Telcordia Issue 1	Level I		1.00	0.058076	.2790	17218806.10
105A517423	Resistor	R266	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A730039	Resistor	R618	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A512033	Resistor	R610	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
1121647480	Capacitor	C676,C678	Telcordia Issue 1	Level I		2.00	0.004509	.0433	221788324.40
11B2701080	Capacitor	C250,C593,C651	Telcordia Issue 1	Level I		3.00	0.004509	.0650	221788324.40
1122522890	Capacitor	C341,C349,C353, C358,C364,C371, C373	Telcordia Issue 1	Level I		7.00	0.004509	.1516	221788324.40
105A710033	Resistor	R470	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
14S3524701	Integrated Circuit	Q31	Telcordia Issue 1	Level I		1.00	0.058076	.2790	17218806.10
14S5A00702	Integrated Circuit	U55	Telcordia Issue 1	Level I		1.00	0.058076	.2790	17218806.10
105A717433	Resistor	R29	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
1189615150	Capacitor	TC1,TC12,TC13,TC26, TC27,TC3,TC32,TC33, TC34	Telcordia Issue 1	Level I		9.00	0.004509	.1949	221788324.40
105A508223	Resistor	R584	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
105A502233	Resistor	R369	Telcordia Issue 1	Level I		1.00	0.002254	.0108	443576648.79
1189647186	Capacitor	TC16	Telcordia Issue 1	Level I		1.00	0.004509	.0217	221788324.40
1315442010	Integrated Circuit	Q32	Telcordia Issue 1	Level I	56.20	1.00	1.857873	8.9242	538249.95
1315442010	Integrated Circuit	Q4	Telcordia Issue 1	Level I		1.00	0.058076	.2790	17218806.10
1315442010	Integrated Circuit	Q33	Telcordia Issue 1	Level I	57.80	1.00	2.017888	9.6929	495567.71
11E9622050	Capacitor	C322,C344,C458, C459,C471,C472, C540,C567,C571	Telcordia Issue 1	Level I		9.00	0.004509	.1949	221788324.40
1600010203	Connection	S1	Telcordia Issue 1	Level I		1.00	0.001120	.0054	892678836.92
14S6266209	Integrated Circuit	U53	Telcordia Issue 1	Level I		1.00	0.025724	.1236	38873587.95
14S6201601	Integrated Circuit		Telcordia Issue 1	Level I		1.00	0.162608	.7811	6149748.13
1655902030	Connection	BAT1	Telcordia Issue 1	Level I		1.00	0.001120	.0054	892678836.92
175011901C	Miscellaneous	BAT1	Telcordia Issue 1	Level I		1.00	0.900000	4.3231	1111111.11
175910000B	Miscellaneous	BUZZ1	Telcordia Issue 1	Level I		1.00	0.150000	.7205	6666666.67
1655910131	Connection	CN1	Telcordia Issue 1	Level I		1.00	0.001120	.0054	892678836.92
1655305020	Connection	CN2,CN9	Telcordia Issue 1	Level I		2.00	0.002801	.0269	357071534.77
1653003201	Connection	JP2+JP3,JP8	Telcordia Issue 1	Level I		2.00	0.001120	.0108	892678836.92
1653130424	Connection	CN8	Telcordia Issue 1	Level I		1.00	0.067213	.3229	14877980.62
1653004201	Connection	CN10	Telcordia Issue 1	Level I		1.00	0.004481	.0215	223169709.23
165320520E	Connection	CN11	Telcordia Issue 1	Level I		1.00	0.005601	.0269	178535767.38

