

AEC-6420

Reliability Prediction Report (MTBF)

Report NO : 09P070017

09-10-2009

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** TF-AEC-6420-A1-1010

II . **Prediction Date:** Sep. 10, 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: 24.9 degrees C
- Standard: Telcordia (Bellcore) Standard

VII. Term and Definition:

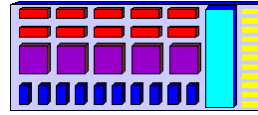
- Unit : An assembly of device.
- Duty Cycle : Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure 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-6420-A1-1010:
Failure Rate: 18.543182 ppm
MTBF: 53,928 Hours

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 09. 10, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.90



Description Top-level assembly
File Name TF-AEC-6420-A1-1010.RPJ
Time 3:06 下午
Failure Rate 18.543182
MTBF 53,928

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-AEC-6420-A1-1010	System	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	18.54	53928.18
EPIC-9457	9697945707-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	18.38	54413.85

AAEON Reliability Prediction Report

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Description Top-level assembly
File Name TF-AEC-6420-A1-1010.RPJ
Time 3:06 下午
Failure Rate 18.543182
MTBF 53,928

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14D5B51222	Integrated Circuit	DDRII	Telcordia Issue 1	Level I		1.00	0.164375	99.3160	6083663.40
1602606A00	Connection	ROCKER SWITCH	Telcordia Issue 1	Level I		1.00	0.001132	.6840	883385841.65

AAEON Reliability Prediction Report

Part Number 9697945707-D
Reference Des
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Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.90

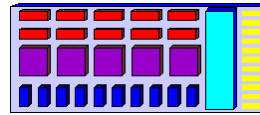


Description
File Name TF-AEC-6420-A1-1010.RPJ
Time 3:06 下午
Failure Rate 18.377675
MTBF 54,414

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	0.004527	1.6749	220919666.10
1129710390	Capacitor	C191,C20,C203,C237, C251,C28,C29,C613, C614,C658,C661	Telcordia Issue 1	Level I		11.00	0.004527	.2709	220919666.10
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	0.004527	1.5271	220919666.10
11E9522680	Capacitor	C101,C102,C115, C127,C130,C177, C290,C56	Telcordia Issue 1	Level I		8.00	0.004527	.1970	220919666.10
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	0.004527	.3941	220919666.10
1124547290	Capacitor	C112,C113,C118, C119,C120,C125,C81, C83	Telcordia Issue 1	Level I		8.00	0.004527	.1970	220919666.10
1129710090	Capacitor	C103,C197,C201, C210,C211,C212, C226,C227,C497,C99	Telcordia Issue 1	Level I		10.00	0.004527	.2463	220919666.10
11B9747490	Capacitor	C106,C422,C443, C449	Telcordia Issue 1	Level I		4.00	0.004527	.0985	220919666.10

AAEON Reliability Prediction Report

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Description
File Name TF-AEC-6420-A1-1010.RPJ
Time 3:06 下午
Failure Rate 18.377675
MTBF 54,414

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	0.004527	.2217	220919666.10
1124405080	Capacitor	C144,C154,C161, C163,C502,C504	Telcordia Issue 1	Level I		6.00	0.005462	.1783	183081288.02
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	0.004527	.4680	220919666.10
1124518280	Capacitor	C156	Telcordia Issue 1	Level I		1.00	0.004527	.0246	220919666.10
1129747090	Capacitor	C158,C663	Telcordia Issue 1	Level I		2.00	0.005462	.0594	183081288.02
11E1547090	Capacitor	C206,C634,C635	Telcordia Issue 1	Level I		3.00	0.004527	.0739	220919666.10
1124518180	Capacitor	C224	Telcordia Issue 1	Level I		1.00	0.004527	.0246	220919666.10
11A4415080	Capacitor	C225	Telcordia Issue 1	Level I		1.00	0.004527	.0246	220919666.10
11C4510380	Capacitor	C236	Telcordia Issue 1	Level I		1.00	0.004527	.0246	220919666.10
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	0.004527	.4187	220919666.10
1189615160	Capacitor	C244,TC6	Telcordia Issue 1	Level I		2.00	0.004527	.0493	220919666.10
11C2510190	Capacitor	C273,C274	Telcordia Issue 1	Level I		2.00	0.004527	.0493	220919666.10
1129622050	Capacitor	C322,C344,C458, C459,C471,C472, C540,C567,C571	Telcordia Issue 1	Level I		9.00	0.004527	.2217	220919666.10
1124522280	Capacitor	C487	Telcordia Issue 1	Level I		1.00	0.004527	.0246	220919666.10
11C4515190	Capacitor	C672,C673	Telcordia Issue 1	Level I		2.00	0.004527	.0493	220919666.10
16515A0997	Connection	DIMM1	Telcordia Issue 1	Level I		1.00	0.113201	.6160	8833858.42
1301005440	Semiconductor	D1,D12,D14,D15,D17, D20	Telcordia Issue 1	Level I		6.00	0.023812	.7774	41994887.40
1300001440	Semiconductor	D3,D4	Telcordia Issue 1	Level I		2.00	0.023812	.2591	41994887.40
1301005442	Semiconductor	D13,D16,D5	Telcordia Issue 1	Level I		3.00	0.023812	.3887	41994887.40
1305100541	Semiconductor	D21,D22,D23,D24, D27,D34,D35,D36, D37,D38,D39,D40, D41,D7,D8,D9	Telcordia Issue 1	Level I		16.00	0.023812	2.0732	41994887.40
1301053040	Semiconductor	D18,D19,D43	Telcordia Issue 1	Level I		3.00	0.023812	.3887	41994887.40
1305099140	Semiconductor	D25,D26	Telcordia Issue 1	Level I		2.00	0.079375	.8638	12598466.22
1301002240	Semiconductor	D29	Telcordia Issue 1	Level I		1.00	0.023812	.1296	41994887.40

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Temp. (°C) 24.90



Description
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Time 3:06 下午
Failure Rate 18.377675
MTBF 54,414

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1300581940	Semiconductor	D44	Telcordia Issue 1	Level I		1.00	0.079375	.4319	12598466.22
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	0.002263	.2217	441839332.19
1212306030	Inductor	FB17,FB18,FB19,FB20,FB26,L29,L34,L35,L40,L41,L42	Telcordia Issue 1	Level I		11.00	0.002263	.1355	441839332.19
12123B0006	Inductor	FB10	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
12123C0007	Inductor	FB12,FB13,FB14	Telcordia Issue 1	Level I		3.00	0.002263	.0369	441839332.19
12123C0006	Inductor	FB15,FB16	Telcordia Issue 1	Level I		2.00	0.002263	.0246	441839332.19
1212306035	Inductor	FB22,FB23,L16,L17,L18,L20,L21,L22, L23,L4,L5	Telcordia Issue 1	Level I		11.00	0.002263	.1355	441839332.19
1752001900	Miscellaneous	FS1	Telcordia Issue 1	Level I		1.00	0.003000	.0163	333333333.33
1752001601	Miscellaneous	FS2,FS4	Telcordia Issue 1	Level I		2.00	0.003000	.0326	333333333.33
1304001340	Semiconductor	LED1,LED3,LED4	Telcordia Issue 1	Level I		3.00	0.004832	.0789	206947616.14
1211000180	Inductor	L1,L11,L2	Telcordia Issue 1	Level I		3.00	0.002263	.0369	441839332.19
121230603S	Inductor	L12	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
1211100102	Inductor	L26,L6	Telcordia Issue 1	Level I		2.00	0.086004	.9360	11627350.85
121230603Z	Inductor	L30,L7,L8	Telcordia Issue 1	Level I		3.00	0.002263	.0369	441839332.19
1231332721	Miscellaneous	Y2	Telcordia Issue 1	Level I		1.00	0.150000	.8162	6666666.67
12123C0005	Inductor	L13,L14,L15	Telcordia Issue 1	Level I		3.00	0.002263	.0369	441839332.19
121110100P	Inductor	L19,L25	Telcordia Issue 1	Level I		2.00	0.086004	.9360	11627350.85
1212308054	Inductor	L24	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
1214309000	Inductor	L27,L28,L36,L37, L38,L39	Telcordia Issue 1	Level I		6.00	0.002263	.0739	441839332.19
1310390410	Semiconductor	Q19,Q2,Q25,Q29,Q42, Q43,Q49	Telcordia Issue 1	Level I		7.00	0.023812	.9070	41994887.40
1315230511	Semiconductor	Q3,Q44	Telcordia Issue 1	Level I		2.00	0.079375	.8638	12598466.22
1315442011	Semiconductor	Q32	Telcordia Issue 1	Level I	57.30	1.00	0.316157	1.7203	3162984.84
1315442011	Semiconductor	Q4	Telcordia Issue 1	Level I		1.00	0.079375	.4319	12598466.22
1315442011	Semiconductor	Q33	Telcordia Issue 1	Level I	60.00	1.00	0.333768	1.8162	2996096.91
1315441014	Semiconductor	Q35,Q6	Telcordia Issue 1	Level I		2.00	0.079375	.8638	12598466.22
1315441014	Semiconductor	Q5	Telcordia Issue 1	Level I	55.70	1.00	0.306043	1.6653	3267511.24
1311390610	Semiconductor	Q15,Q46	Telcordia Issue 1	Level I		2.00	0.023812	.2591	41994887.40
14S3524700	Integrated Circuit	Q16	Telcordia Issue 1	Level I		1.00	0.058933	.3207	16968377.18
1315230300	Semiconductor	Q21	Telcordia Issue 1	Level I		1.00	0.079375	.4319	12598466.22
1315313800	Semiconductor	Q30	Telcordia Issue 1	Level I		1.00	0.079375	.4319	12598466.22
1311138610	Semiconductor	Q47,Q48,Q50,Q51	Telcordia Issue 1	Level I		4.00	0.023812	.5183	41994887.40

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Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.90



Description
File Name TF-AEC-6420-A1-1010.RPJ
Time 3:06 下午
Failure Rate 18.377675
MTBF 54,414

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1315441012	Semiconductor	Q53	Telcordia Issue 1	Level I		1.00	0.079375	.4319	12598466.22
1540782282	Resistor	RP16,RP17,RP2,RP3, RP4,RP5	Telcordia Issue 1	Level I		6.00	0.012435	.4060	80418362.36
1540710084	Resistor	RP10,RP11,RP12, RP13,RP6,RP7,RP8, RP9	Telcordia Issue 1	Level I		8.00	0.006217	.2707	160836724.71
1540710280	Resistor	RP14,RP15	Telcordia Issue 1	Level I		2.00	0.006217	.0677	160836724.71
106B501032	Resistor	RT1,RT2,RT3	Telcordia Issue 1	Level I		3.00	0.002263	.0369	441839332.19
1059510031	Resistor	RT4	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
105A733009	Resistor	R1,R532,R627,R629, R8,R9	Telcordia Issue 1	Level I		6.00	0.002263	.0739	441839332.19
105A700009	Resistor	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,R411, R42,R422,R423,R426, R427,R428,R431, R435,R441,R45,R	Telcordia Issue 1	Level I		74.00	0.002263	.9113	441839332.19
105A510009	Resistor	R11,R297,R298,R391, R420,R451,R469, R497,R499,R578, R579	Telcordia Issue 1	Level I		11.00	0.002263	.1355	441839332.19
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	0.002263	.4064	441839332.19
105A502033	Resistor	R18,R19,R46	Telcordia Issue 1	Level I		3.00	0.002263	.0369	441839332.19
105A510213	Resistor	R22	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
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	0.002263	.2094	441839332.19
105A702263	Resistor	R26,R357	Telcordia Issue 1	Level I		2.00	0.002263	.0246	441839332.19
105A501039	Resistor	R27,R40,R44	Telcordia Issue 1	Level I		3.00	0.002263	.0369	441839332.19

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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	0.002263	.2340	441839332.19
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	0.002263	.4803	441839332.19
105A705139	Resistor	R157,R193,R205, R505,R68,R93	Telcordia Issue 1	Level I		6.00	0.002263	.0739	441839332.19
105A710053	Resistor	R100,R509,R74	Telcordia Issue 1	Level I		3.00	0.013580	.2217	73639888.70
105A580663	Resistor	R75,R81	Telcordia Issue 1	Level I		2.00	0.002263	.0246	441839332.19
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	0.002263	.8251	441839332.19
1050512164	Resistor	R102,R103,R180, R181	Telcordia Issue 1	Level I		4.00	0.002263	.0493	441839332.19
1050524904	Resistor	R131,R143,R379, R413,R477,R495	Telcordia Issue 1	Level I		6.00	0.002263	.0739	441839332.19
105A700103	Resistor	R133,R336,R432, R439,R455,R461	Telcordia Issue 1	Level I		6.00	0.002263	.0739	441839332.19
105A710039	Resistor	R384,R401,R478, R628,R632,R633	Telcordia Issue 1	Level I		6.00	0.002263	.0739	441839332.19
105A747003	Resistor	R155,R161	Telcordia Issue 1	Level I		2.00	0.002263	.0246	441839332.19

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Failure Rate 18.377675
MTBF 54,414

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A554969	Resistor	R164,R232,R483, R496	Telcordia Issue 1	Level I		4.00	0.002263	.0493	441839332.19
105A527463	Resistor	R167,R236	Telcordia Issue 1	Level I		2.00	0.002263	.0246	441839332.19
105A510733	Resistor	R206	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
1315889611	Semiconductor	U48	Telcordia Issue 1	Level I		1.00	0.079375	.4319	12598466.22
105A501233	Resistor	R215	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
105A549919	Resistor	R241,R248,R440, R515,R516,R549, R550	Telcordia Issue 1	Level I		7.00	0.002263	.0862	441839332.19
105A513033	Resistor	R262,R269	Telcordia Issue 1	Level I		2.00	0.002263	.0246	441839332.19
105A701533	Resistor	R284	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
105A706823	Resistor	R287,R288,R552, R564	Telcordia Issue 1	Level I		4.00	0.002263	.0493	441839332.19
105A549903	Resistor	R289,R492	Telcordia Issue 1	Level I		2.00	0.002263	.0246	441839332.19
105A502223	Resistor	R312	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
105A501623	Resistor	R313	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
105A700133	Resistor	R314	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
105A511313	Resistor	R315	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
105A532413	Resistor	R318	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
105A507533	Resistor	R338	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
105A506823	Resistor	R362	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
105A501413	Resistor	R602,R635	Telcordia Issue 1	Level I		2.00	0.002263	.0246	441839332.19
105A501523	Resistor	R430	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
105A733033	Resistor	R433	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
105A525503	Resistor	R436	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
105A701053	Resistor	R447,R562,R589	Telcordia Issue 1	Level I		3.00	0.002263	.0369	441839332.19
105A522103	Resistor	R474,R493	Telcordia Issue 1	Level I		2.00	0.002263	.0246	441839332.19
105A500139	Resistor	R531,R547,R573, R581,R582,R585, R586,R587,R588, R606	Telcordia Issue 1	Level I		10.00	0.002263	.1232	441839332.19
105A520003	Resistor	R170,R356,R494	Telcordia Issue 1	Level I		3.00	0.002263	.0369	441839332.19
105A500239	Resistor	R542,R583,R590	Telcordia Issue 1	Level I		3.00	0.002263	.0369	441839332.19
105A705123	Resistor	R548	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
105A503033	Resistor	R557	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
105A547033	Resistor	R561	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
105A706803	Resistor	R570	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
105A501223	Resistor	R623	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
105A588703	Resistor	R625	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
105A502833	Resistor	R207,R630	Telcordia Issue 1	Level I		2.00	0.002263	.0246	441839332.19
1600000203	Connection	S1	Telcordia Issue 1	Level I		1.00	0.001132	.0062	883385841.65

AAEON Reliability Prediction Report

Part Number 9697945707-D
Reference Des
Date 09. 10, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.90



Description
File Name TF-AEC-6420-A1-1010.RPJ
Time 3:06 下午
Failure Rate 18.377675
MTBF 54,414

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1189622150	Capacitor	TC14,TC17,TC18, TC19,TC2,TC20,TC22	Telcordia Issue 1	Level I		7.00	0.004527	.1724	220919666.10
1189633160	Capacitor	TC10,TC23,TC24, TC25,TC4,TC5,TC9	Telcordia Issue 1	Level I		7.00	0.004527	.1724	220919666.10
1182622080	Capacitor	TC11	Telcordia Issue 1	Level I		1.00	0.004527	.0246	220919666.10
1189647180	Capacitor	TC15,TC21,TC30, TC31	Telcordia Issue 1	Level I		4.00	0.004527	.0985	220919666.10
1189633181	Capacitor	TC28,TC29	Telcordia Issue 1	Level I		2.00	0.004527	.0493	220919666.10
1315970211	Semiconductor	U47,U49,U50	Telcordia Issue 1	Level I		3.00	0.158749	2.5915	6299233.11
14S4653700	Integrated Circuit	U1	Telcordia Issue 1	Level I		1.00	0.058933	.3207	16968377.18
14S2041700	Integrated Circuit	U3	Telcordia Issue 1	Level I		1.00	0.026029	.1416	38418616.55
14S3065500	Integrated Circuit	U4	Telcordia Issue 1	Level I	43.20	1.00	0.932931	5.0764	1071890.52
14S428010D	Integrated Circuit	U7	Telcordia Issue 1	Level I	45.20	1.00	0.261866	1.4249	3818746.21
14S4021301	Integrated Circuit	U14,U19,U25,U8	Telcordia Issue 1	Level I		4.00	0.058933	1.2827	16968377.18
14S4294503	Integrated Circuit	U10	Telcordia Issue 1	Level I	56.70	1.00	0.428926	2.3339	2331406.18
14S4048502	Integrated Circuit	U15,U20	Telcordia Issue 1	Level I		2.00	0.058933	.6414	16968377.18
14S5A12506	Integrated Circuit	U16	Telcordia Issue 1	Level I		1.00	0.026029	.1416	38418616.55
14S4081110	Integrated Circuit	U41	Telcordia Issue 1	Level I		1.00	0.058933	.3207	16968377.18
14S3050100	Integrated Circuit	U18	Telcordia Issue 1	Level I	43.70	1.00	0.959305	5.2199	1042421.74
14S6308001	Integrated Circuit	U21,U22	Telcordia Issue 1	Level I		2.00	0.035621	.3877	28073518.38
14S5A00401	Integrated Circuit	U23	Telcordia Issue 1	Level I		1.00	0.026029	.1416	38418616.55
14S5812502	Integrated Circuit	U24	Telcordia Issue 1	Level I		1.00	0.026029	.1416	38418616.55
14S4878100	Integrated Circuit	U26	Telcordia Issue 1	Level I	42.60	1.00	0.233143	1.2686	4289218.70
14S3387201	Integrated Circuit	U27	Telcordia Issue 1	Level I		1.00	0.058933	.3207	16968377.18
14S4160020	Integrated Circuit	U28	Telcordia Issue 1	Level I	40.20	1.00	0.209101	1.1378	4782369.15
14S4825740	Integrated Circuit	U29	Telcordia Issue 1	Level I	41.50	1.00	0.221841	1.2071	4507733.71
14S4825740	Integrated Circuit	U30	Telcordia Issue 1	Level I	43.60	1.00	0.243848	1.3269	4100913.09
14S5812300	Integrated Circuit	U31	Telcordia Issue 1	Level I		1.00	0.026029	.1416	38418616.55
14S3128421	Integrated Circuit	U32	Telcordia Issue 1	Level I		1.00	0.058933	.3207	16968377.18
14S2200900	Integrated Circuit	U34	Telcordia Issue 1	Level I		1.00	0.058933	.3207	16968377.18
14S2045400	Integrated Circuit	U38	Telcordia Issue 1	Level I		1.00	0.058933	.3207	16968377.18
14S4195710	Integrated Circuit	U51,U54	Telcordia Issue 1	Level I		2.00	0.058933	.6414	16968377.18
14S5A00700	Integrated Circuit	U44	Telcordia Issue 1	Level I		1.00	0.025097	.1366	39845032.76
165392521H	Connection	CN26	Telcordia Issue 1	Level I		1.00	0.028300	.1540	35335433.67

AAEON Reliability Prediction Report

Part Number 9697945707-D
Reference Des
Date 09. 10, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.90



Description
File Name TF-AEC-6420-A1-1010.RPJ
Time 3:06 下午
Failure Rate 18.377675
MTBF 54,414

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
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	0.079375	9.9339	12598466.22
1314780511	Integrated Circuit	U2	Telcordia Issue 1			1.00	0.058933	.3207	16968377.18
165300420L	Connection	CN28	Telcordia Issue 1	Level I		1.00	0.004528	.0246	220846460.41
1752011000	Miscellaneous	FS3	Telcordia Issue 1	Level I		1.00	0.003000	.0163	33333333.33
1314108412	Integrated Circuit	U40	Telcordia Issue 1	Level I	43.70	1.00	0.959305	5.2199	1042421.74
1314108412	Integrated Circuit	U46	Telcordia Issue 1	Level I		1.00	0.058933	.3207	16968377.18
105A533003	Resistor	R363,R553	Telcordia Issue 1	Level I		2.00	0.002263	.0246	441839332.19
1314638110	Integrated Circuit	U11	Telcordia Issue 1	Level I		1.00	0.058933	.3207	16968377.18
105A517423	Resistor	R266	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
105A730039	Resistor	R618	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
105A512033	Resistor	R610	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
1121647480	Capacitor	C676,C678	Telcordia Issue 1	Level I		2.00	0.004527	.0493	220919666.10
11B2701080	Capacitor	C250,C593,C651	Telcordia Issue 1	Level I		3.00	0.004527	.0739	220919666.10
1122522890	Capacitor	C341,C349,C353, C358,C364,C371, C373	Telcordia Issue 1	Level I		7.00	0.004527	.1724	220919666.10
105A710033	Resistor	R470	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
14S5A00702	Integrated Circuit	U55	Telcordia Issue 1	Level I		1.00	0.058933	.3207	16968377.18
105A717433	Resistor	R29	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
1189615150	Capacitor	TC1,TC12,TC13,TC26, TC27,TC3,TC32,TC33, TC34	Telcordia Issue 1	Level I		9.00	0.004527	.2217	220919666.10
105A508223	Resistor	R584	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
105A502233	Resistor	R369	Telcordia Issue 1	Level I		1.00	0.002263	.0123	441839332.19
14S6201601	Integrated Circuit		Telcordia Issue 1	Level I		1.00	0.165614	.9012	6038150.33
1189647186	Capacitor	TC16	Telcordia Issue 1	Level I		1.00	0.004527	.0246	220919666.10
1655902030	Connection	BAT1	Telcordia Issue 1	Level I		1.00	0.001132	.0062	883385841.65
175011901C	Miscellaneous	BAT1	Telcordia Issue 1	Level I		1.00	0.900000	4.8972	1111111.11
175910000B	Miscellaneous	BUZZ1	Telcordia Issue 1	Level I		1.00	0.150000	.8162	6666666.67
1655910131	Connection	CN1	Telcordia Issue 1	Level I		1.00	0.001132	.0062	883385841.65
1655305020	Connection	CN9	Telcordia Issue 1	Level I		1.00	0.002830	.0154	353354336.66
1653003201	Connection	JP8	Telcordia Issue 1	Level I		1.00	0.001132	.0062	883385841.65
1653004201	Connection	CN10	Telcordia Issue 1	Level I		1.00	0.004528	.0246	220846460.41
165320520E	Connection	CN11	Telcordia Issue 1	Level I		1.00	0.005660	.0308	176677168.33
1655003010	Connection	CN13	Telcordia Issue 1	Level I		1.00	0.001698	.0092	588923894.43

