

AEC-6811

Reliability Prediction Report (MTBF)

Report NO : 09P070018

09-11-2009

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** TF-AEC-6811-A1-1010

II . **Prediction Date:** Sep. 11, 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:

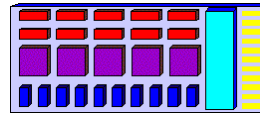
- Unit : An assembly of device.
- Duty Cycle : Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure 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-6811-A1-1010:
Failure Rate: 15.056898 ppm
MTBF: 66,415 Hours

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 09. 11, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.90



Description Top-level assembly
File Name TF-AEC-6811-A1-1010.RPJ
Time 10:57 上午
Failure Rate 15.056898
MTBF 66,415

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-AEC-6811-A1-1010	System	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	15.06	66414.74
I/O Board T121-A10	9697T12102-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	5.50	181920.88
Power Board E102-A11	9697E10206	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	.73	1364624.14
ETX-700	9697700010-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	8.66	115450.86

AAEON Reliability Prediction Report

Part Number 9697T12102-D
Reference Des
Date 09. 11, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.90



Description
File Name TF-AEC-6811-A1-1010.RPJ
Time 10:57 上午
Failure Rate 5.496895
MTBF 181,921

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1129701690	Capacitor	BC1,BC2,BC3,BC4,C1, C101,C12,C2,C22, C23,C4,C44,C45,C46, C47,C48,C49,C50, C51,C52,C53,C54, C56,C57,C58,C59, C60,C61,C62,C63, C64,C65,C66,C68, C69,C70,C71,C72, C74,C79,C83,C88, C89,C90,C91,C92, C93,C94,C95,C97	Telcordia Issue 1	Level I		50.00	0.004527	4.1174	220919666.10
1759100006	Miscellaneous	BZ1	Telcordia Issue 1	Level I		1.00	0.150000	2.7288	6666666.67
1174618180	Capacitor	CP1,CP2,CP3,CP4, CP5,CP6,CP7,CP8, CP9	Telcordia Issue 1	Level I		9.00	0.005462	.8943	183081288.02
1129710050	Capacitor	C13,C3	Telcordia Issue 1	Level I		2.00	0.005462	.1987	183081288.02
1121610180	Capacitor	C24,C8	Telcordia Issue 1	Level I		2.00	0.004527	.1647	220919666.10
1124415080	Capacitor	C9	Telcordia Issue 1	Level I		1.00	0.004527	.0823	220919666.10
1121701080	Capacitor	C16,C19	Telcordia Issue 1	Level I		2.00	0.004527	.1647	220919666.10
1124447180	Capacitor	C113,C114,C115, C116,C118,C17,C20, C34,C41	Telcordia Issue 1	Level I		9.00	0.004527	.7411	220919666.10
1124510280	Capacitor	C18,C21	Telcordia Issue 1	Level I		2.00	0.005462	.1987	183081288.02
1124501780	Capacitor	C25	Telcordia Issue 1	Level I		1.00	0.004527	.0823	220919666.10
1121733780	Capacitor	C29,C38	Telcordia Issue 1	Level I		2.00	0.005462	.1987	183081288.02
1122710080	Capacitor	C36	Telcordia Issue 1	Level I		1.00	0.005462	.0994	183081288.02
11C9510290	Capacitor	C55,C67	Telcordia Issue 1	Level I		2.00	0.004527	.1647	220919666.10
1129701790	Capacitor	C73	Telcordia Issue 1	Level I		1.00	0.004527	.0823	220919666.10
1124522080	Capacitor	C75	Telcordia Issue 1	Level I		1.00	0.005462	.0994	183081288.02
1124527080	Capacitor	C76,C77	Telcordia Issue 1	Level I		2.00	0.005462	.1987	183081288.02
1144647680	Capacitor	C98	Telcordia Issue 1	Level I		1.00	0.004527	.0823	220919666.10
1124533180	Capacitor	C99	Telcordia Issue 1	Level I		1.00	0.004527	.0823	220919666.10
1124401880	Capacitor	C102,C105,C106, c109	Telcordia Issue 1	Level I		4.00	0.004527	.3294	220919666.10
1121710090	Capacitor	C100	Telcordia Issue 1	Level I		1.00	0.004527	.0823	220919666.10
1124447080	Capacitor	C110,C111,C112	Telcordia Issue 1	Level I		3.00	0.005462	.2981	183081288.02
1301005440	Semiconductor	D1,D4	Telcordia Issue 1	Level I		2.00	0.023812	.8664	41994887.40
1300001240	Semiconductor	D3	Telcordia Issue 1	Level I		1.00	0.023812	.4332	41994887.40
121230603T	Inductor	FB2,FB4,L10,L11, L47,L48,L5	Telcordia Issue 1	Level I		7.00	0.002263	.2882	441839332.19
121230603S	Inductor	FB5,FB6	Telcordia Issue 1	Level I		2.00	0.002263	.0823	441839332.19
1752001601	Miscellaneous	FS1,FS2,FS3,FS4, FS5	Telcordia Issue 1	Level I		5.00	0.003000	.2729	33333333.33

AAEON Reliability Prediction Report

Part Number 9697T12102-D
Reference Des
Date 09. 11, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.90



Description
File Name TF-AEC-6811-A1-1010.RPJ
Time 10:57 上午
Failure Rate 5.496895
MTBF 181,921

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1752340000	Miscellaneous	F2,F4	Telcordia Issue 1	Level I		2.00	0.003000	.1092	333333333.33
1212306031	Inductor	L1,L2,L3,L4,L6,L7	Telcordia Issue 1	Level I		6.00	0.002263	.2470	441839332.19
121230805L	Inductor	L12,L13,L16,L17,L8	Telcordia Issue 1	Level I		5.00	0.002263	.2059	441839332.19
1214309000	Inductor	L14,L15,L18,L19	Telcordia Issue 1	Level I		4.00	0.002263	.1647	441839332.19
1654262300	Connection	MPC11	Telcordia Issue 1	Level I		1.00	0.070185	1.2768	14248158.74
1314111712	Integrated Circuit	Q1	Telcordia Issue 1	Level I	19.80	1.00	0.229413	4.1735	4358945.93
1310390410	Semiconductor	Q2,Q7	Telcordia Issue 1	Level I		2.00	0.023812	.8664	41994887.40
1315030210	Semiconductor	Q3,Q4	Telcordia Issue 1	Level I		2.00	0.079375	2.8880	12598466.22
1315030210	Semiconductor	Q5	Telcordia Issue 1	Level I	17.90	1.00	0.128997	2.3467	7752125.81
1315030210	Semiconductor	Q6	Telcordia Issue 1	Level I	18.20	1.00	0.129990	2.3648	7692893.96
121230603U	Inductor	L20,L21,L22,L23, L24,L25,L43,L44, L45	Telcordia Issue 1	Level I		9.00	0.002263	.3706	441839332.19
1540710080	Resistor	RP1,RP2,RP3,RP4, RP5,RP6,RP7,RP8	Telcordia Issue 1	Level I		8.00	0.006217	.9049	160836724.71
1540733085	Resistor	RP10	Telcordia Issue 1	Level I		1.00	0.006217	.1131	160836724.71
1540710382	Resistor	RP9	Telcordia Issue 1	Level I		1.00	0.006217	.1131	160836724.71
105A504723	Resistor	R1,R152,R154,R159, R160,R2,R22,R33, R34,R38,R4,R94	Telcordia Issue 1	Level I		12.00	0.002263	.4941	441839332.19
1059700001	Resistor	R3	Telcordia Issue 1	Level I		1.00	0.002263	.0412	441839332.19
105A700009	Resistor	R11,R123,R13,R132, R140,R148,R149, R161,R18,R19,R7,R9	Telcordia Issue 1	Level I		12.00	0.002263	.4941	441839332.19
105A500133	Resistor	R20,R42,R44,R55	Telcordia Issue 1	Level I		4.00	0.002263	.1647	441839332.19
105A700003	Resistor	R126,R142,R23,R24, R28,R29,R30,R31, R35,R36,R49,R5,R50, R51,R52,R56,R92	Telcordia Issue 1	Level I		17.00	0.002263	.7000	441839332.19
105A702223	Resistor	R37,R46	Telcordia Issue 1	Level I		2.00	0.002263	.0823	441839332.19
105A501003	Resistor	R40	Telcordia Issue 1	Level I		1.00	0.002263	.0412	441839332.19
105A501039	Resistor	R116	Telcordia Issue 1	Level I		1.00	0.002263	.0412	441839332.19
105A504733	Resistor	R43,R45,R53,R63	Telcordia Issue 1	Level I		4.00	0.002263	.1647	441839332.19
1059710003	Resistor	R47,R54	Telcordia Issue 1	Level I		2.00	0.002263	.0823	441839332.19
105A501533	Resistor	R175,R176,R177, R178,R183,R184, R185,R186	Telcordia Issue 1	Level I		8.00	0.002263	.3294	441839332.19
105A503300	Resistor	R150,R163	Telcordia Issue 1	Level I		2.00	0.002263	.0823	441839332.19
105A508223	Resistor	R153,R87,R90	Telcordia Issue 1	Level I		3.00	0.002263	.1235	441839332.19
105A500139	Resistor	R119	Telcordia Issue 1	Level I		1.00	0.002263	.0412	441839332.19

AAEON Reliability Prediction Report

Part Number 9697T12102-D
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Temp. (°C) 24.90



Description
File Name TF-AEC-6811-A1-1010.RPJ
Time 10:57 上午
Failure Rate 5.496895
MTBF 181,921

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A510033	Resistor	R120,R121	Telcordia Issue 1	Level I		2.00	0.002263	.0823	441839332.19
105A703329	Resistor	R122,R129,R130, R131	Telcordia Issue 1	Level I		4.00	0.002263	.1647	441839332.19
105A554903	Resistor	R125	Telcordia Issue 1	Level I		1.00	0.002263	.0412	441839332.19
105A561903	Resistor	R127	Telcordia Issue 1	Level I		1.00	0.002263	.0412	441839332.19
105A549963	Resistor	R135,R136	Telcordia Issue 1	Level I		2.00	0.002263	.0823	441839332.19
105A506203	Resistor	R137,R138	Telcordia Issue 1	Level I		2.00	0.002263	.0823	441839332.19
105A515003	Resistor	R139,R147	Telcordia Issue 1	Level I		2.00	0.002263	.0823	441839332.19
105A533003	Resistor	R151,R169,R170, R196	Telcordia Issue 1	Level I		4.00	0.002263	.1647	441839332.19
105A501033	Resistor	R156,R57	Telcordia Issue 1	Level I		2.00	0.002263	.0823	441839332.19
105A733009	Resistor	R165,R166	Telcordia Issue 1	Level I		2.00	0.002263	.0823	441839332.19
105A512103	Resistor	R167	Telcordia Issue 1	Level I		1.00	0.002263	.0412	441839332.19
105A521003	Resistor	R168	Telcordia Issue 1	Level I		1.00	0.002263	.0412	441839332.19
105A747033	Resistor	R171,R172,R179, R180	Telcordia Issue 1	Level I		4.00	0.002263	.1647	441839332.19
105A756033	Resistor	R173,R174,R181, R182	Telcordia Issue 1	Level I		4.00	0.002263	.1647	441839332.19
105A507503	Resistor	R187,R188,R189	Telcordia Issue 1	Level I		3.00	0.002263	.1235	441839332.19
16540A0000	Connection	U1A,U1B,U1C,U1D	Telcordia Issue 1	Level I		4.00	0.056600	4.1187	17667716.83
14S4397704	Integrated Circuit	U2	Telcordia Issue 1	Level I		1.00	0.026029	.4735	38418616.55
14S7140200	Integrated Circuit	U14,U29	Telcordia Issue 1	Level I		2.00	0.058933	2.1442	16968377.18
14S5A00830	Integrated Circuit	U28	Telcordia Issue 1	Level I		1.00	0.026029	.4735	38418616.55
14S5A01400	Integrated Circuit	U20	Telcordia Issue 1	Level I		1.00	0.058933	1.0721	16968377.18
1314108517	Integrated Circuit	U8	Telcordia Issue 1	Level I	27.40	1.00	0.369913	6.7295	2703341.23
14S7140100	Integrated Circuit	U12,U16,U27	Telcordia Issue 1	Level I		3.00	0.058933	3.2164	16968377.18
14S4021301	Integrated Circuit	U10,U11,U24,U25	Telcordia Issue 1	Level I		4.00	0.058933	4.2885	16968377.18
14S5A12503	Integrated Circuit	U19	Telcordia Issue 1	Level I		1.00	0.058933	1.0721	16968377.18
14S4048501	Integrated Circuit	U21,U23	Telcordia Issue 1	Level I		2.00	0.058933	2.1442	16968377.18
14S5A12506	Integrated Circuit	U22	Telcordia Issue 1	Level I		1.00	0.026029	.4735	38418616.55
14S4255101	Integrated Circuit	U32	Telcordia Issue 1	Level I	23.70	1.00	0.094692	1.7226	10560531.01
14S6334610	Integrated Circuit	U33	Telcordia Issue 1	Level I		1.00	0.022776	.4143	43906493.83
1315496310	Integrated Circuit	U34	Telcordia Issue 1	Level I		1.00	0.058933	1.0721	16968377.18
1315970110	Semiconductor	U35	Telcordia Issue 1	Level I		1.00	0.158749	2.8880	6299233.11
1231325058	Miscellaneous	Y2	Telcordia Issue 1	Level I		1.00	0.150000	2.7288	6666666.67
1653222208	Connection	IDE1	Telcordia Issue 1	Level I		1.00	0.024904	.4531	40153901.89
105A782003	Resistor	R88,R93	Telcordia Issue 1	Level I		2.00	0.002263	.0823	441839332.19
1654030003	Connection	CN8	Telcordia Issue 1	Level I		1.00	0.016980	.3089	58892389.44
105A704729	Resistor	R164	Telcordia Issue 1	Level I		1.00	0.002263	.0412	441839332.19
1655902030	Connection	BAT1	Telcordia Issue 1	Level I		1.00	0.001132	.0206	883385841.65

AAEON Reliability Prediction Report

Part Number 9697700010-D
Reference Des
Date 09. 11, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.90



Description
File Name TF-AEC-6811-A1-1010.RPJ
Time 10:57 上午
Failure Rate 8.661694
MTBF 115,451

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1124410190	Capacitor	C103,C104,C105, C106,C114,C115, C116,C117,C118, C119,C129,C130, C131,C132,C133, C134,C153,C170, C171,C172,C173, C182,C183,C184, C187,C188,C189, C190,C194,C195, C196,C197,C315, C345,C351,C371, C372,C88,C89,C9	Telcordia Issue 1	Level I		41.00	0.004527	2.1426	220919666.10
1122539980	Capacitor	C319,C347,C352	Telcordia Issue 1	Level I		3.00	0.004527	.1568	220919666.10
1129710390	Capacitor	C100,C101,C102, C151,C191,C198, C199,C200,C201, C206,C207,C208, C241,C242,C243, C244,C3,C4,C7,C8, C84,C85,C86,C87, C99	Telcordia Issue 1	Level I		25.00	0.004527	1.3065	220919666.10
1129701790	Capacitor	C1,C110,C111,C112, C113,C120,C121, C125,C126,C127, C128,C135,C136, C146,C147,C152, C177,C178,C179, C180,C181,C2,C202, C203,C204,C205, C209,C210,C211, C212,C290,C301, C302,C303,C304, C306,C307,C308, C309,C401,C5,C5	Telcordia Issue 1	Level I		56.00	0.004527	2.9265	220919666.10
1129722091	Capacitor	C253,C254,C255	Telcordia Issue 1	Level I		3.00	0.004527	.1568	220919666.10
1124427080	Capacitor	C280,C281	Telcordia Issue 1	Level I		2.00	0.004527	.1045	220919666.10
1124522080	Capacitor	C366	Telcordia Issue 1	Level I		1.00	0.005462	.0631	183081288.02
1301005440	Semiconductor	D10,D16	Telcordia Issue 1	Level I		2.00	0.023812	.5498	41994887.40
1301005441	Semiconductor	D4,D8,D9	Telcordia Issue 1	Level I		3.00	0.027159	.9407	36819944.35
1301005442	Semiconductor	D1,D12,D15	Telcordia Issue 1	Level I		3.00	0.023812	.8247	41994887.40
1311119710	Semiconductor	Q2	Telcordia Issue 1	Level I		1.00	0.023812	.2749	41994887.40

AAEON Reliability Prediction Report

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Time 10:57 上午
Failure Rate 8.661694
MTBF 115,451

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1315700214	Semiconductor	Q1,Q10,Q11,Q12,Q13, Q14,Q9	Telcordia Issue 1	Level I		7.00	0.079375	6.4147	12598466.22
1540710382	Resistor	RN39,RN46,RN49, RN51,RN52,RN54, RN56,RN57,RN58, RN59,RN60,RN61, RN62,RN63,RN64, RN65,RN66,RN67, RN68,RN70,RN71, RN72,RN73,RN74, RN75,RN76,RN77, RN78,RN79	Telcordia Issue 1	Level I		29.00	0.006217	2.0817	160836724.71
1540733085	Resistor	RN10,RN11,RN12, RN13,RN14,RN17, RN18,RN2,RN20,RN22, RN23,RN24,RN26, RN28,RN30,RN32, RN33,RN34,RN35, RN36,RN37,RN38,RN9	Telcordia Issue 1	Level I		23.00	0.006217	1.6510	160836724.71
1540722085	Resistor	RN25,RN27,RN29,RN3, RN31,RN4,RN42,RN43, RN44,RN45,RN47, RN48,RN5,RN50,RN6, RN7,RN8	Telcordia Issue 1	Level I		17.00	0.012435	2.4406	80418362.36
106B501031	Resistor	R167	Telcordia Issue 1	Level I		1.00	0.011320	.1307	88338584.16
105A704729	Resistor	R133,R158,R170, R173,R177,R178, R179,R191,R231, R233,R234,R235, R304,R305,R306, R325,R326,R327, R328,R36,R380,R381	Telcordia Issue 1	Level I		22.00	0.002263	.5749	441839332.19
105A704723	Resistor	R11,R19,R21,R23, R26,R286,R287,R288	Telcordia Issue 1	Level I		8.00	0.002263	.2090	441839332.19
105A702209	Resistor	R104,R138,R139, R142,R143,R149, R150,R151,R152, R153,R154,R155, R156,R195,R196, R197,R198,R199, R200,R201,R202, R203,R204,R205, R206,R207,R208,R31, R33,R34,R35,R389, R58,R59,R60,R61, R62,R63	Telcordia Issue 1	Level I		38.00	0.002263	.9929	441839332.19

AAEON Reliability Prediction Report

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Date 09. 11, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.90



Description
File Name TF-AEC-6811-A1-1010.RPJ
Time 10:57 上午
Failure Rate 8.661694
MTBF 115,451

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A700139	Resistor	R114,R115,R193, R237,R310,R333, R365,R373,R383, R387,R388,R66,R70, R73,R76,R81,R88	Telcordia Issue 1	Level I		17.00	0.002263	.4442	441839332.19
105A700009	Resistor	R102,R108,R110, R146,R147,R181, R248,R276,R283, R290,R293,R295, R296,R297,R30,R300, R301,R302,R312,R32, R321,R358,R362, R399,R50,R85,R87, R89,R91,R93,R94, R95	Telcordia Issue 1	Level I		32.00	0.002263	.8361	441839332.19
105A700003	Resistor	C239,C240,FB11, FB12,FB13,FB16, FB17,R18,R187,R238, R240,R250,R251, R266,R267,R270, R273,R285,R303, R314,R396,R404,R41, R42,R43	Telcordia Issue 1	Level I		25.00	0.002263	.6532	441839332.19
105A551119	Resistor	R242,R268,R274	Telcordia Issue 1	Level I		3.00	0.002263	.0784	441839332.19
105A501039	Resistor	R109,R112,R123, R124,R125,R126, R127,R128,R129, R130,R140,R144, R157,R160,R161, R162,R163,R166, R168,R169,R182, R192,R223,R224, R243,R247,R272, R278,R289,R329, R330,R331,R374, R375,R377,R378, R392,R57,R64,R8	Telcordia Issue 1	Level I		40.00	0.002263	1.0452	441839332.19
105A703329	Resistor	R282,R311,R316, R317,R318	Telcordia Issue 1	Level I		5.00	0.002263	.1306	441839332.19
105A501139	Resistor	R246,R281	Telcordia Issue 1	Level I		2.00	0.002263	.0523	441839332.19
105A700103	Resistor	R279,R86,R90,R92	Telcordia Issue 1	Level I		4.00	0.002263	.1045	441839332.19
1050502224	Resistor	R131,R132,R135, R136,R176,R249, R275,R277,R284	Telcordia Issue 1	Level I		9.00	0.002263	.2352	441839332.19
1059700001	Resistor	R379	Telcordia Issue 1	Level I		1.00	0.002263	.0261	441839332.19

AAEON Reliability Prediction Report

Part Number 9697700010-D
Reference Des
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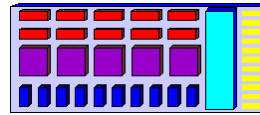


Description
File Name TF-AEC-6811-A1-1010.RPJ
Time 10:57 上午
Failure Rate 8.661694
MTBF 115,451

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A703309	Resistor	R189,R190,R232, R338,R339,R340, R341,R342,R343, R344,R345,R346, R347,R348,R349, R350,R351,R352, R353,R382,R385, R393,R394,R395,R55, R56,R96,R97	Telcordia Issue 1	Level I		28.00	0.002263	.7316	441839332.19
105A703303	Resistor	R16,R225,R44,R47	Telcordia Issue 1	Level I		4.00	0.002263	.1045	441839332.19
105A501413	Resistor	R363	Telcordia Issue 1	Level I		1.00	0.002263	.0261	441839332.19
105A503423	Resistor	R137	Telcordia Issue 1	Level I		1.00	0.002263	.0261	441839332.19
105A512113	Resistor	R107,R28	Telcordia Issue 1	Level I		2.00	0.002263	.0523	441839332.19
105A505623	Resistor	R218,R222	Telcordia Issue 1	Level I		2.00	0.002263	.0523	441839332.19
105A506823	Resistor	R164,R165	Telcordia Issue 1	Level I		2.00	0.002263	.0523	441839332.19
105A554903	Resistor	R313	Telcordia Issue 1	Level I		1.00	0.002263	.0261	441839332.19
105A561903	Resistor	R315	Telcordia Issue 1	Level I		1.00	0.002263	.0261	441839332.19
105A710039	Resistor	R38,R384,R386	Telcordia Issue 1	Level I		3.00	0.002263	.0784	441839332.19
105A710033	Resistor	R308,R309	Telcordia Issue 1	Level I		2.00	0.002263	.0523	441839332.19
1212306035	Inductor	FB1,FB2,FB21,FB22, FB23,FB3,FB4,FB5, L1,R213	Telcordia Issue 1	Level I		10.00	0.002263	.2613	441839332.19
1212306030	Inductor	FB14,FB15,FB18, FB19,FB6,FB7,FB8, FB9	Telcordia Issue 1	Level I		8.00	0.002263	.2090	441839332.19
1651203291	Connection	U19	Telcordia Issue 1	Level I		1.00	0.018112	.2091	55211615.10
16515A0993	Connection	J1	Telcordia Issue 1	Level I		1.00	0.113201	1.3069	8833858.42
1189622190	Capacitor	C175,C78	Telcordia Issue 1	Level I		2.00	0.004527	.1045	220919666.10
14S4230400	Integrated Circuit	U17	Telcordia Issue 1	Level I		1.00	0.026029	.3005	38418616.55
14S2362400	Integrated Circuit	U26,U29,U30	Telcordia Issue 1	Level I		3.00	0.058933	2.0412	16968377.18
14S4888801	Integrated Circuit	U25	Telcordia Issue 1	Level I	25.00	1.00	0.101087	1.1671	9892437.35
14S4553600	Integrated Circuit	U15	Telcordia Issue 1	Level I	26.70	1.00	0.110019	1.2702	9089311.33
14S4813905	Integrated Circuit	U23	Telcordia Issue 1	Level I	24.70	1.00	0.099579	1.1496	10042292.16
14S4638330	Integrated Circuit	U6	Telcordia Issue 1	Level I		1.00	0.058933	.6804	16968377.18
14S3149103	Integrated Circuit	U22	Telcordia Issue 1	Level I	27.50	1.00	0.114457	1.3214	8736937.04
14S5A01400	Integrated Circuit	U14	Telcordia Issue 1	Level I		1.00	0.058933	.6804	16968377.18
14S4820900	Integrated Circuit	U16	Telcordia Issue 1	Level I		1.00	0.026029	.3005	38418616.55
14S4195710	Integrated Circuit	U33	Telcordia Issue 1	Level I		1.00	0.058933	.6804	16968377.18
14S2200900	Integrated Circuit	U13	Telcordia Issue 1	Level I		1.00	0.058933	.6804	16968377.18
14S9820800	Integrated Circuit	U18,U39	Telcordia Issue 1	Level I		2.00	0.026029	.6010	38418616.55
14S6334610	Integrated Circuit	U24	Telcordia Issue 1	Level I		1.00	0.022776	.2629	43906493.83

AAEON Reliability Prediction Report

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Description
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Time 10:57 上午
Failure Rate 8.661694
MTBF 115,451

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S5A12503	Integrated Circuit	U2,U3,U4	Telcordia Issue 1	Level I		3.00	0.058933	2.0412	16968377.18
14S4642100	Integrated Circuit	U1	Telcordia Issue 1	Level I	27.20	1.00	0.365396	4.2185	2736759.42
14S4871203	Integrated Circuit	U20	Telcordia Issue 1	Level I		1.00	0.026029	.3005	38418616.55
1231332721	Miscellaneous	Y1	Telcordia Issue 1	Level I		1.00	0.150000	1.7318	6666666.67
123131435B	Miscellaneous	Y4	Telcordia Issue 1	Level I		1.00	0.150000	1.7318	6666666.67
1231325058	Miscellaneous	X1,Y5	Telcordia Issue 1	Level I		2.00	0.150000	3.4635	6666666.67
1231324555	Miscellaneous	Y3	Telcordia Issue 1	Level I		1.00	0.150000	1.7318	6666666.67
1304019000	Semiconductor	D5	Telcordia Issue 1	Level I		1.00	0.004832	.0558	206947616.14
105A510513	Resistor	R15	Telcordia Issue 1	Level I		1.00	0.002263	.0261	441839332.19
105A551113	Resistor	R14	Telcordia Issue 1	Level I		1.00	0.002263	.0261	441839332.19
1124415080	Capacitor	C29,C30	Telcordia Issue 1	Level I		2.00	0.004527	.1045	220919666.10
105A505103	Resistor	R214,R215,R216, R217	Telcordia Issue 1	Level I		4.00	0.002263	.1045	441839332.19
1121533480	Capacitor	C392	Telcordia Issue 1	Level I		1.00	0.004527	.0523	220919666.10
1540747285	Resistor	RN1	Telcordia Issue 1	Level I		1.00	0.006217	.0718	160836724.71
14S5A03200	Integrated Circuit	U35	Telcordia Issue 1	Level I		1.00	0.058933	.6804	16968377.18
14S5801402	Integrated Circuit	U36	Telcordia Issue 1	Level I		1.00	0.026029	.3005	38418616.55
1315993311	Semiconductor	Q7	Telcordia Issue 1	Level I	19.60	1.00	0.269403	3.1103	3711914.40
1540700081	Resistor	RP1,RP10,RP2,RP4, RP6,RP8	Telcordia Issue 1	Level I		6.00	0.000000	.0000	.00
121230805D	Inductor	FB20	Telcordia Issue 1	Level I		1.00	0.002263	.0261	441839332.19
105A701033	Resistor	R103	Telcordia Issue 1	Level I		1.00	0.002263	.0261	441839332.19
1302001240	Semiconductor	D3,D7	Telcordia Issue 1	Level I		2.00	0.027159	.6271	36819944.35
105A705629	Resistor	R111,R376	Telcordia Issue 1	Level I		2.00	0.002263	.0523	441839332.19
105A733033	Resistor	R120	Telcordia Issue 1	Level I		1.00	0.002263	.0261	441839332.19
105A710053	Resistor	R121,R175	Telcordia Issue 1	Level I		2.00	0.013580	.3136	73639888.70
105A747003	Resistor	R254	Telcordia Issue 1	Level I		1.00	0.002263	.0261	441839332.19
105A704763	Resistor	R148	Telcordia Issue 1	Level I		1.00	0.002263	.0261	441839332.19
14S3020300	Integrated Circuit	U21	Telcordia Issue 1	Level I	29.90	1.00	0.430771	4.9733	2321419.22
105A705123	Resistor	R211	Telcordia Issue 1	Level I		1.00	0.002263	.0261	441839332.19
105A701539	Resistor	R212	Telcordia Issue 1	Level I		1.00	0.002263	.0261	441839332.19
14S4081110	Integrated Circuit	U7	Telcordia Issue 1	Level I		1.00	0.058933	.6804	16968377.18
1301053040	Semiconductor	D13,D14	Telcordia Issue 1	Level I		2.00	0.023812	.5498	41994887.40
1189633192	Capacitor	TC3,TC4,TC5	Telcordia Issue 1	Level I		3.00	0.004527	.1568	220919666.10
105A705139	Resistor	R228	Telcordia Issue 1	Level I		1.00	0.002263	.0261	441839332.19
1189647180	Capacitor	TC1	Telcordia Issue 1	Level I		1.00	0.004527	.0523	220919666.10
1314111711	Integrated Circuit	U27	Telcordia Issue 1	Level I		1.00	0.058933	.6804	16968377.18
14S5A00821	Integrated Circuit	U34	Telcordia Issue 1	Level I		1.00	0.026029	.3005	38418616.55

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Time 10:57 上午
Failure Rate 8.661694
MTBF 115,451

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
11C1522480	Capacitor	C393	Telcordia Issue 1	Level I		1.00	0.004527	.0523	220919666.10
105A756003	Resistor	R239	Telcordia Issue 1	Level I		1.00	0.002263	.0261	441839332.19
165392521F	Connection	CN5	Telcordia Issue 1	Level I		1.00	0.028300	.3267	35335433.67
1653002201	Connection	JP1	Telcordia Issue 1	Level I		1.00	0.002264	.0261	441692920.82
1129715090	Capacitor	C138,C139	Telcordia Issue 1	Level I		2.00	0.004527	.1045	220919666.10
105A701053	Resistor	R400	Telcordia Issue 1	Level I		1.00	0.002263	.0261	441839332.19
1050501234	Resistor	R269	Telcordia Issue 1	Level I		1.00	0.002263	.0261	441839332.19
1315667910	Semiconductor	U37,U38	Telcordia Issue 1	Level I		2.00	0.158749	3.6656	6299233.11
1654040002	Connection	CN4	Telcordia Issue 1	Level I		1.00	0.022640	.2614	44169292.08
121110156A	Inductor	L2,L4,L5	Telcordia Issue 1	Level I		3.00	0.086004	2.9788	11627350.85
1315731310	Semiconductor	Q3,Q5,Q6	Telcordia Issue 1	Level I		3.00	0.158749	5.4983	6299233.11
14S4800004	Integrated Circuit	U12	Telcordia Issue 1	Level I	18.80	1.00	0.075474	.8714	13249626.90
11B9710050	Capacitor	C107,C108,C109, C122,C123,C124, C141,C144,C145, C150,C162,C163, C176,C185,C186, C192,C193,C225, C228,C231,C235, C251,C257,C278, C283,C284,C300, C305,C313,C318,C32, C320,C330,C339,C34, C344,C348,C356, C358,C36,C367,C	Telcordia Issue 1	Level I		59.00	0.004527	3.0833	220919666.10
14S6200800	Integrated Circuit		Telcordia Issue 1	Level I		1.00	0.140525	1.6224	7116172.38