

AEC-6845

Reliability Prediction Report (MTBF)

Report NO : 07P070011

11-02-2007

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** TF-AEC-6845-A1-1010

II . **Prediction Date:** Nov. 2th, 2007

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 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.

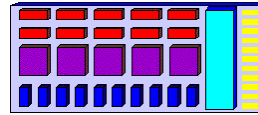
VIII . **Prediction Result:**

TF-AEC-6845-A1-1010

- MTBF Failure Rate: 11.488973 ppm
- MTBF: 87,040 Hours

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 11. 2, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

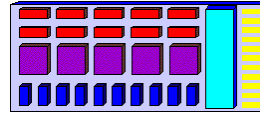


Description Top-level assembly
File Name TF-AEC-6845-A1-1010.RPJ
Time 2:56 下午
Failure Rate 11.488973
MTBF 87,040

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-AEC-6845-A1-1010	System	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	11.488973	87,040
GENE-6350-A11	9697635020-DIP	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	10.546406	94,819
ASS'Y Switch Board T093	9697T09300-SMT	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	0.077380	12,923,239
ASS'Y I/O Board Y00C	9697Y00C04-DIP	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	0.328140	3,047,479
ASS'Y Power Board E102	9697E10206	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	0.532495	1,877,952

AAEON Reliability Prediction Report

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Temp. (°C) 25.00

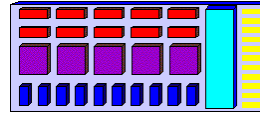


Description Top-level assembly
File Name TF-AEC-6845-A1-1010.RPJ
Time 2:56 下午
Failure Rate 11.488973
MTBF 87,040

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1652606200	Connection	TERMINAL	Bellcore Issue 6	Level I		0.003414	1.00	75.0000	0.003414	292926756.90
1602606A00	Connection	ROCKER SWITCH	Bellcore Issue 6	Level I		0.001138	1.00	25.0000	0.001138	878780270.71

AAEON Reliability Prediction Report

Part Number 9697635020-DIP
Reference Des
Date 11. 2, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 26.60



Description
File Name TF-AEC-6845-A1-1010.RPJ
Time 2:56 下午
Failure Rate 10.546406
MTBF 94,819

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1655306020	Connection	CN16	Bellcore Issue 6	Level I		0.092746	1.00	.8794	0.092746	10782093.27
1654606306	Connection	CN19	Bellcore Issue 6	Level I		0.003710	1.00	.0352	0.003710	269552331.66
1653003101	Connection	JP1,JP6	Bellcore Issue 6	Level I		0.001855	2.00	.0352	0.003710	539104663.31
1653003201	Connection	JP5	Bellcore Issue 6	Level I		0.003710	1.00	.0352	0.003710	269552331.66
1655003023	Connection	FAN2	Bellcore Issue 6	Level I		0.001855	1.00	.0176	0.001855	539104663.31
1750119014	Connection	BAT1	Bellcore Issue 6	Level I		0.030915	1.00	.2931	0.030915	32346279.80
1653005201	Connection	CN13	Bellcore Issue 6	Level I		0.006183	1.00	.0586	0.006183	161731398.99
1653005201	Connection	CN10,CN22,CN8	Bellcore Issue 6	Level I		0.006183	3.00	.1759	0.018549	161731398.99
1652512206	Connection	CN15	Bellcore Issue 6	Level I		0.007420	1.00	.0704	0.007420	134776165.83
1656304020	Connection	CN17	Bellcore Issue 6	Level I		0.002473	1.00	.0235	0.002473	404328497.48
1654415308	Connection	CN20	Bellcore Issue 6	Level I		0.009275	1.00	.0879	0.009275	107820932.66
1653004302	Connection	JP2,JP4	Bellcore Issue 6	Level I		0.007420	2.00	.1407	0.014839	134776165.83
1654409103	Connection	CN21	Bellcore Issue 6	Level I		0.005565	1.00	.0528	0.005565	179701554.44
1653900034	Connection	CN23	Bellcore Issue 6	Level I		0.001237	1.00	.0117	0.001237	808656994.97
1653006101	Connection	CN1	Bellcore Issue 6	Level I		0.003710	1.00	.0352	0.003710	269552331.66
14S6202007	Integrated Circuit		Bellcore Issue 6	Level I		0.157505	1.00	1.4934	0.157505	6349003.56
1231325050	Miscellaneous	Y3	Bellcore Issue 6	Level I		0.150000	1.00	1.4223	0.150000	6666666.67
16515A0993	Connection	SODIMM1	Bellcore Issue 6	Level I		0.123662	1.00	1.1725	0.123662	8086569.95
105A520003	Resistor	R72	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
105A720033	Resistor	R100	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
105A703903	Resistor	R138,R139	Bellcore Issue 6	Level I		0.002340	2.00	.0444	0.004679	427434518.04
105A505603	Resistor	R141,R144,R242	Bellcore Issue 6	Level I		0.002340	3.00	.0665	0.007019	427434518.04
105A506803	Resistor	R149	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
105A700203	Resistor	R161	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
105A549963	Resistor	R174	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
14S4048500	Integrated Circuit	U30,U31	Bellcore Issue 6	Level I		0.066696	2.00	1.2648	0.133392	14993388.27
105A501533	Resistor	R179,R188	Bellcore Issue 6	Level I		0.002340	2.00	.0444	0.004679	427434518.04
105A736003	Resistor	R199,R214,R228	Bellcore Issue 6	Level I		0.002340	3.00	.0665	0.007019	427434518.04
105A511313	Resistor	R203,R215	Bellcore Issue 6	Level I		0.002340	2.00	.0444	0.004679	427434518.04
1059700001	Resistor	R207,R208,R248,R249,R396	Bellcore Issue 6	Level I		0.002340	5.00	.1109	0.011698	427434518.04
105A500333	Resistor	R217,R303	Bellcore Issue 6	Level I		0.002340	2.00	.0444	0.004679	427434518.04

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Temp. (°C) 26.60



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Time 2:56 下午
Failure Rate 10.546406
MTBF 94,819

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A547003	Resistor	R262	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
105A505103	Resistor	R304,R305,R307,R308	Bellcore Issue 6	Level I		0.002340	4.00	.0887	0.009358	427434518.04
105A502233	Resistor	R322	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
105A501823	Resistor	R325	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
14S4823500	Integrated Circuit	U2	Bellcore Issue 6	Level I	11.80	0.083509	1.00	.7918	0.083509	11974808.32
1300414841	Semiconductor	D2	Bellcore Issue 6	Level I		0.024999	1.00	.2370	0.024999	40002218.10
1300581740	Semiconductor	D4,D5	Bellcore Issue 6	Level I		0.024999	2.00	.4741	0.049997	40002218.10
1212306031	Inductor	FB24-FB26,FB28,FB30-FB34	Bellcore Issue 6	Level I		0.002340	16.00	.3549	0.037433	427434518.04
1752001600	Miscellaneous	F1,F2	Bellcore Issue 6	Level I		0.030000	2.00	.5689	0.060000	33333333.33
1211101660	Inductor	L5	Bellcore Issue 6	Level I	13.80	0.003021	1.00	.0286	0.003021	330976433.48
1654262300	Connection	MPC11	Bellcore Issue 6	Level I		0.076670	1.00	.7270	0.076670	13042854.76
1213103008	Inductor	NL1-NL7	Bellcore Issue 6	Level I		0.002340	7.00	.1553	0.016377	427434518.04
1311119710	Semiconductor	Q4	Bellcore Issue 6	Level I		0.024999	1.00	.2370	0.024999	40002218.10
1315993310	Semiconductor	U35	Bellcore Issue 6	Level I		0.166657	1.00	1.5802	0.166657	6000332.71
14S5A70000	Integrated Circuit	U39	Bellcore Issue 6	Level I		0.066696	1.00	.6324	0.066696	14993388.27
14S2652000	Integrated Circuit	U19	Bellcore Issue 6	Level I	23.60	0.324896	1.00	3.0806	0.324896	3077906.15
14S4025600	Integrated Circuit	U23	Bellcore Issue 6	Level I	22.20	0.297691	1.00	2.8227	0.297691	3359182.72
14S5A00402	Integrated Circuit	Q30,Q7	Bellcore Issue 6	Level I		0.066696	2.00	1.2648	0.133392	14993388.27
1301005440	Semiconductor	Q12	Bellcore Issue 6	Level I		0.024999	1.00	.2370	0.024999	40002218.10
1301005440	Semiconductor	Q15,Q28	Bellcore Issue 6	Level I		0.024999	2.00	.4741	0.049997	40002218.10
1315488010	Integrated Circuit	U4	Bellcore Issue 6	Level I	13.70	0.172146	1.00	1.6323	0.172146	5809016.07
1315488010	Integrated Circuit	U5	Bellcore Issue 6	Level I	14.10	0.176759	1.00	1.6760	0.176759	5657436.29
1301005442	Semiconductor	Q33	Bellcore Issue 6	Level I		0.024999	1.00	.2370	0.024999	40002218.10
1540722084	Resistor	RP10,RP12,RP14,RP16,RP22,RP2-4,RP26,RP29,RP31,RP40,RP41,R-P6	Bellcore Issue 6	Level I		0.006717	12.00	.7643	0.080609	148866642.87
1540722084	Resistor	RP7,RP75,RP76,RP77,RP78,RP8,-RP80,RP9	Bellcore Issue 6	Level I		0.006717	8.00	.5096	0.053739	148866642.87
1540756080	Resistor	RP18	Bellcore Issue 6	Level I		0.006717	1.00	.0637	0.006717	148866642.87
1540733082	Resistor	RP45,RP46,RP61,RP63-RP74,RP8-3-RP89	Bellcore Issue 6	Level I		0.006717	21.00	1.3376	0.141066	148866642.87
15407222A0	Resistor	RP52,RP56	Bellcore Issue 6	Level I		0.008397	2.00	.1592	0.016794	119093314.30

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Time 2:56 下午
Failure Rate 10.546406
MTBF 94,819

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A515009	Resistor	R1,R105,R128,R129,R131,R133,R-134,R150,R16,R272,R3,R309	Bellcore Issue 6	Level I		0.002340	12.00	.2662	0.028074	427434518.04
105A501039	Resistor	R10,R146,R157,R162,R167,R183,-R187,R189,R24,R241	Bellcore Issue 6	Level I		0.002340	10.00	.2218	0.023395	427434518.04
105A501039	Resistor	R284,R33,R388,R389,R42,R43,R50,-R60,R61,R62,R68	Bellcore Issue 6	Level I		0.002340	11.00	.2440	0.025735	427434518.04
105A501039	Resistor	R69,R73,R89,R9,R399	Bellcore Issue 6	Level I		0.002340	5.00	.1109	0.011698	427434518.04
105A500139	Resistor	R109,R114,R115,R130,R132,R14,-R168,R17,R178,R19,R212,R22	Bellcore Issue 6	Level I		0.002340	12.00	.2662	0.028074	427434518.04
105A500139	Resistor	R222,R232,R240,R256,R271,R282,-R295,R337,R349,R35,R356,R357	Bellcore Issue 6	Level I		0.002340	12.00	.2662	0.028074	427434518.04
105A500139	Resistor	R390,R47,R80,R85,R86	Bellcore Issue 6	Level I		0.002340	5.00	.1109	0.011698	427434518.04
105A702209	Resistor	R106-R108,R117,R120,R121,R191,-R192,R20,R21,R26,R264,R266	Bellcore Issue 6	Level I		0.002340	13.00	.2884	0.030414	427434518.04
105A702209	Resistor	R267-R269,R273,R274,R283,R299,-R306,R31,R315,R335,R338,R369	Bellcore Issue 6	Level I		0.002340	13.00	.2884	0.030414	427434518.04
105A702209	Resistor	R38,R392,R48,R49,R51,R52-R55,-R57-R59,R64-R66,R77,R81-R83	Bellcore Issue 6	Level I		0.002340	19.00	.4215	0.044451	427434518.04
105A702209	Resistor	R98,R99	Bellcore Issue 6	Level I		0.002340	2.00	.0444	0.004679	427434518.04
1653017201	Connection	CN6	Bellcore Issue 6	Level I		0.021023	1.00	.1993	0.021023	47568058.53
1653010203	Connection	CN11	Bellcore Issue 6	Level I		0.012366	1.00	.1173	0.012366	80865699.50
1654040000	Connection	CN18	Bellcore Issue 6	Level I		0.024732	1.00	.2345	0.024732	40432849.75
1129747650	Capacitor	C10,C6	Bellcore Issue 6	Level I		0.002751	2.00	.0522	0.005501	363537278.90
1129701690	Capacitor	C100,C102,C103,C106-C109,C111-C114,C116,C118,C119,C12	Bellcore Issue 6	Level I		0.002566	15.00	.3649	0.038483	389779766.53
1129701690	Capacitor	C122-C124,C132,C134,C136,C137-C141,C15,C153,C154,C156,C163	Bellcore Issue 6	Level I		0.002566	13.00	.3162	0.033352	389779766.53
1129701690	Capacitor	C169,C172,C174-C180,C183,C184-C188,C20,C203,C21,C223,C23,C24	Bellcore Issue 6	Level I		0.002566	18.00	.4379	0.046180	389779766.53
1129701690	Capacitor	C244-C246,C25,C257,C26,C266,C-27,C279,C28,C282,C29,C294,C297	Bellcore Issue 6	Level I		0.002566	14.00	.3406	0.035918	389779766.53
1129701690	Capacitor	C30,C301,C305,C32,C332-C335,C-339,C341,C343,C35,C356-C358,C-36	Bellcore Issue 6	Level I		0.002566	16.00	.3892	0.041049	389779766.53
1129701690	Capacitor	C370-C373,C376-C379,C389,C391-C394,C397,C399,C402-C404,C410	Bellcore Issue 6	Level I		0.002566	18.00	.4379	0.046180	389779766.53
1129701690	Capacitor	C412,C415,C417,C42,C421,C422,-C424,C428,C429,C432-C436,C40,-C523-C527	Bellcore Issue 6	Level I		0.002566	21.00	.5109	0.053877	389779766.53

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Date 11. 2, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
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Time 2:56 下午
Failure Rate 10.546406
MTBF 94,819

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1129701690	Capacitor	C44,C440,C445-C449,C452,C453,-C458,C459,C463,C464	Bellcore Issue 6	Level I		0.002566	13.00	.3162	0.033352	389779766.53
1129701690	Capacitor	C476,C479,C483,C484,C49,C493,-C50,C504-C506,C51,C516,C517,C-52	Bellcore Issue 6	Level I		0.002566	14.00	.3406	0.035918	389779766.53
1129701690	Capacitor	C54,C60-C62,C65,C68-C72,C84-C-88,C9,C91-C93,C95,C96	Bellcore Issue 6	Level I		0.002566	21.00	.5109	0.053877	389779766.53
1124547190	Capacitor	C167,C168,C18,C187,C202,C205,-C218,C222,C230,C261	Bellcore Issue 6	Level I		0.001071	10.00	.1016	0.010713	933444816.99
1124522080	Capacitor	C258,C259,C57,C58	Bellcore Issue 6	Level I		0.001071	4.00	.0406	0.004285	933444816.99
1129610260	Capacitor	C135	Bellcore Issue 6	Level I		0.000720	1.00	.0068	0.000720	1389336922.90
1189615190	Capacitor	C170,C171,C326,C327	Bellcore Issue 6	Level I		0.005089	4.00	.1930	0.020356	196498317.42
1189615183	Capacitor	C171	Bellcore Issue 6	Level I		0.005089	1.00	.0483	0.005089	196498317.42
1189615183	Capacitor	C199,C326,C327	Bellcore Issue 6	Level I		0.005089	3.00	.1448	0.015267	196498317.42
1189615183	Capacitor	C170	Bellcore Issue 6	Level I		0.005089	1.00	.0483	0.005089	196498317.42
1189615183	Capacitor	C173	Bellcore Issue 6	Level I		0.005089	1.00	.0483	0.005089	196498317.42
1122722890	Capacitor	C216	Bellcore Issue 6	Level I		0.001614	1.00	.0153	0.001614	619480886.29
14S4862300	Integrated Circuit	U13	Bellcore Issue 6	Level I		0.043150	1.00	.4091	0.043150	23175210.94
14S4021310	Integrated Circuit	U36	Bellcore Issue 6	Level I		0.066696	1.00	.6324	0.066696	14993388.27
14S4021310	Integrated Circuit	U37	Bellcore Issue 6	Level I		0.066696	1.00	.6324	0.066696	14993388.27
14S4021310	Integrated Circuit	U29	Bellcore Issue 6	Level I		0.066696	1.00	.6324	0.066696	14993388.27
14S4021310	Integrated Circuit	U26	Bellcore Issue 6	Level I		0.066696	1.00	.6324	0.066696	14993388.27
14S4369700	Integrated Circuit	U27	Bellcore Issue 6	Level I		0.043150	1.00	.4091	0.043150	23175210.94
14S2303700	Integrated Circuit	U28	Bellcore Issue 6	Level I		0.066696	1.00	.6324	0.066696	14993388.27
14S4163200	Integrated Circuit	U34	Bellcore Issue 6	Level I		0.043150	1.00	.4091	0.043150	23175210.94
14S3128420	Integrated Circuit	U38	Bellcore Issue 6	Level I		0.066696	1.00	.6324	0.066696	14993388.27
1231332721	Miscellaneous	Y1	Bellcore Issue 6	Level I		0.150000	1.00	1.4223	0.150000	6666666.67
1231324551	Miscellaneous	Y2	Bellcore Issue 6	Level I		0.150000	1.00	1.4223	0.150000	6666666.67
1231314350	Miscellaneous	Y4	Bellcore Issue 6	Level I		0.150000	1.00	1.4223	0.150000	6666666.67
105A551003	Resistor	R321,R41	Bellcore Issue 6	Level I		0.002340	2.00	.0444	0.004679	427434518.04
105A700009	Resistor	R184,R193,R237,R252,R255,R257,-R260,R285,R287,R294,R302,R312	Bellcore Issue 6	Level I		0.002340	12.00	.2662	0.028074	427434518.04
105A700009	Resistor	R44,R45,R56,R70,R75,R84,R90,R-92	Bellcore Issue 6	Level I		0.002340	8.00	.1775	0.018716	427434518.04

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Time 2:56 下午
Failure Rate 10.546406
MTBF 94,819

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A510009	Resistor	R219,R393,R67,R397,R398	Bellcore Issue 6	Level I		0.002340	5.00	.1109	0.011698	427434518.04
105A716003	Resistor	R95	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
105A507509	Resistor	R151,R18,R270,R353-R355	Bellcore Issue 6	Level I		0.002340	6.00	.1331	0.014037	427434518.04
105A730009	Resistor	R127,R135,R154	Bellcore Issue 6	Level I		0.002340	3.00	.0665	0.007019	427434518.04
105A501403	Resistor	R140	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
105A549903	Resistor	R142	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
105A511103	Resistor	R143	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
105A701053	Resistor	R155,R158	Bellcore Issue 6	Level I		0.002340	2.00	.0444	0.004679	427434518.04
105A510033	Resistor	R170,R171	Bellcore Issue 6	Level I		0.002340	2.00	.0444	0.004679	427434518.04
105A538303	Resistor	R173	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
105A504733	Resistor	R175	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
105A502823	Resistor	R198,R216	Bellcore Issue 6	Level I		0.002340	2.00	.0444	0.004679	427434518.04
105A502723	Resistor	R202,R206,R210,R221,R235,R239	Bellcore Issue 6	Level I		0.002340	6.00	.1331	0.014037	427434518.04
105A501523	Resistor	R204	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
105A516913	Resistor	R205,R317	Bellcore Issue 6	Level I		0.002340	2.00	.0444	0.004679	427434518.04
105S507523	Resistor	R209	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
105A705123	Resistor	R225	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
105A510213	Resistor	R227	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
105A516513	Resistor	R290	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
105A571563	Resistor	R316	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
105A700003	Resistor	FB23	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
105A733009	Resistor	R324,R351	Bellcore Issue 6	Level I		0.002340	2.00	.0444	0.004679	427434518.04
105A532413	Resistor	R391	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
14S3065001	Integrated Circuit	U1	Bellcore Issue 6	Level I	12.50	0.086708	1.00	.8222	0.086708	11532914.01
14S4065000	Integrated Circuit	U3	Bellcore Issue 6	Level I		0.043150	1.00	.4091	0.043150	23175210.94
14S6334610	Integrated Circuit	U7	Bellcore Issue 6	Level I		0.034376	1.00	.3260	0.034376	29090032.30
14S1035800	Integrated Circuit	U20	Bellcore Issue 6	Level I	31.20	0.515589	1.00	4.8888	0.515589	1939529.88
14S1035800	Integrated Circuit	U8	Bellcore Issue 6	Level I	13.60	0.171010	1.00	1.6215	0.171010	5847602.35
14S3031100	Integrated Circuit	U9	Bellcore Issue 6	Level I	11.00	0.079980	1.00	.7584	0.079980	12503199.35
14S4810000	Integrated Circuit	U10	Bellcore Issue 6	Level I	11.00	0.079980	1.00	.7584	0.079980	12503199.35
14S4378100	Integrated Circuit	U11	Bellcore Issue 6	Level I	11.50	0.082169	1.00	.7791	0.082169	12169970.69

AAEON Reliability Prediction Report

Part Number 9697635020-DIP
Reference Des
Date 11. 2, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 26.60



Description
File Name TF-AEC-6845-A1-1010.RPJ
Time 2:56 下午
Failure Rate 10.546406
MTBF 94,819

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1189633081	Capacitor	C241	Bellcore Issue 6	Level I	23.10	0.005230	1.00	.0496	0.005230	191211851.10
1129747090	Capacitor	C513-C515	Bellcore Issue 6	Level I		0.001071	3.00	.0305	0.003214	933444816.99
1304101340	Semiconductor	D3	Bellcore Issue 6	Level I		0.166657	1.00	1.5802	0.166657	6000332.71
121230603J	Inductor	FB1,FB10-FB19,FB2,FB27,FB29,F- B3-FB5,FB52-FB54,FB6,FB61-FB65- ,FB68,FB69,FB7	Bellcore Issue 6	Level I		0.002340	29.00	.6433	0.067847	427434518.04
121230603J	Inductor	FB8,FB9	Bellcore Issue 6	Level I		0.002340	2.00	.0444	0.004679	427434518.04
1212308054	Inductor	FB35,FB36,FB39	Bellcore Issue 6	Level I		0.002340	3.00	.0665	0.007019	427434518.04
1212306035	Inductor	FB37,FB38,FB40-FB51	Bellcore Issue 6	Level I		0.002340	14.00	.3106	0.032754	427434518.04
1214309000	Inductor	L1-L4	Bellcore Issue 6	Level I		0.002340	4.00	.0887	0.009358	427434518.04
1211103362	Inductor	L6	Bellcore Issue 6	Level I	8.00	0.002721	1.00	.0258	0.002721	367507013.98
1211104760	Inductor	L7	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
1174522180	Capacitor	NC1	Bellcore Issue 6	Level I		0.001071	1.00	.0102	0.001071	933444816.99
1315700212	Semiconductor	Q18,Q19,Q2,Q23,Q6	Bellcore Issue 6	Level I		0.083329	5.00	3.9506	0.416644	12000665.43
1310390411	Semiconductor	Q24-Q25,Q3,Q8	Bellcore Issue 6	Level I		0.024999	4.00	.9481	0.099994	40002218.10
1310390411	Semiconductor	Q27	Bellcore Issue 6	Level I		0.024999	1.00	.2370	0.024999	40002218.10
1310390411	Semiconductor	Q26	Bellcore Issue 6	Level I		0.024999	1.00	.2370	0.024999	40002218.10
1314043113	Integrated Circuit	Q5	Bellcore Issue 6	Level I		0.066696	1.00	.6324	0.066696	14993388.27
1314111711	Integrated Circuit	Q10	Bellcore Issue 6	Level I		0.066696	1.00	.6324	0.066696	14993388.27
1315970110	Semiconductor	U40,U41	Bellcore Issue 6	Level I		0.166657	2.00	3.1605	0.333315	6000332.71
14S3880000	Integrated Circuit	Q11	Bellcore Issue 6	Level I		0.066696	1.00	.6324	0.066696	14993388.27
1301005445	Semiconductor	Q17	Bellcore Issue 6	Level I		0.024999	4.00	.9481	0.099994	40002218.10
14S5A01400	Integrated Circuit	Q21	Bellcore Issue 6	Level I		0.066696	1.00	.6324	0.066696	14993388.27
1540747282	Resistor	RP1,RP27,RP3,RP5,RP53,RP57,R- P62,RP81,RP82,RP90-RP94	Bellcore Issue 6	Level I		0.006717	14.00	.8917	0.094044	148866642.87
1540710380	Resistor	RP2,RP21,RP4,RP47-RP50,EP79	Bellcore Issue 6	Level I		0.006717	8.00	.5096	0.053739	148866642.87
15407560A0	Resistor	RP11,RP13,RP15,RP17,RP19,RP2- 3,RP25,RP28,RP30,RP32,RP42,R- P44	Bellcore Issue 6	Level I		0.008397	12.00	.9554	0.100761	119093314.30
1540782280	Resistor	RP20	Bellcore Issue 6	Level I		0.006717	1.00	.0637	0.006717	148866642.87
1540715180	Resistor	RP43,RP54,RP55	Bellcore Issue 6	Level I		0.006717	3.00	.1911	0.020152	148866642.87
1540701380	Resistor	RP51	Bellcore Issue 6	Level I		0.006717	1.00	.0637	0.006717	148866642.87
1540715380	Resistor	RP58-RP60	Bellcore Issue 6	Level I		0.006717	3.00	.1911	0.020152	148866642.87

AAEON Reliability Prediction Report

Part Number 9697635020-DIP
Reference Des
Date 11. 2, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 26.60



Description
File Name TF-AEC-6845-A1-1010.RPJ
Time 2:56 下午
Failure Rate 10.546406
MTBF 94,819

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
106B501031	Resistor	RT1,RT2	Bellcore Issue 6	Level I		0.012366	2.00	.2345	0.024732	80865699.50
105A704729	Resistor	R101,R102,R11,R112,R113,R118,- R119,R122-R126,R136,R137	Bellcore Issue 6	Level I		0.002340	14.00	.3106	0.032754	427434518.04
105A704729	Resistor	R147,R152,R153,R159,R160,R165- -R166,R172,R176,R181,R185,R186	Bellcore Issue 6	Level I		0.002340	12.00	.2662	0.028074	427434518.04
105A704729	Resistor	R190,R194,R196,R2,R200,R213,R- 220,R226,R230,R231,R234,R243	Bellcore Issue 6	Level I		0.002340	12.00	.2662	0.028074	427434518.04
105A704729	Resistor	R246,R247,R25,R250,R251,R253,- R254,R258,R259,R261,R27,R28,R- 280	Bellcore Issue 6	Level I		0.002340	13.00	.2884	0.030414	427434518.04
105A704729	Resistor	R281,R286,R289,R298,R30,R300,- R301,R310,R313,R32,R329,R331	Bellcore Issue 6	Level I		0.002340	12.00	.2662	0.028074	427434518.04
105A704729	Resistor	R332,R334,R336,R339,R34,R340,- R342,R343,R346,R347,R348,R352	Bellcore Issue 6	Level I		0.002340	12.00	.2662	0.028074	427434518.04
105A704729	Resistor	R358,R359,R361,R362,R364,R366- R368,R37,R370,R371,R381,R39,R4	Bellcore Issue 6	Level I		0.002340	13.00	.2884	0.030414	427434518.04
105A704729	Resistor	R71,R76,R78,R79,R8,R93,R94,R96- R97	Bellcore Issue 6	Level I		0.002340	9.00	.1996	0.021056	427434518.04
105A747033	Resistor	R401,R403	Bellcore Issue 6	Level I		0.002340	2.00	.0444	0.004679	427434518.04
105A756033	Resistor	R402,R404	Bellcore Issue 6	Level I		0.002340	2.00	.0444	0.004679	427434518.04
105A505623	Resistor	R12,R244,R46,R74	Bellcore Issue 6	Level I		0.002340	4.00	.0887	0.009358	427434518.04
105A503309	Resistor	R13,R195,R23,R245,R323,R36,R91	Bellcore Issue 6	Level I		0.002340	7.00	.1553	0.016377	427434518.04
105A702229	Resistor	R15,R201,R320,R345	Bellcore Issue 6	Level I		0.002340	4.00	.0887	0.009358	427434518.04
105A508223	Resistor	R29	Bellcore Issue 6	Level I		0.002340	1.00	.0222	0.002340	427434518.04
1759100006	Miscellaneous	BU1	Bellcore Issue 6	Level I		0.150000	1.00	1.4223	0.150000	6666666.67
1653007204	Connection	CN4,CN5	Bellcore Issue 6	Level I		0.008656	2.00	.1642	0.017313	115522427.85
1653022202	Connection	CN7	Bellcore Issue 6	Level I		0.027206	1.00	.2580	0.027206	36757136.13
1653013202	Connection	CN9	Bellcore Issue 6	Level I		0.016076	1.00	.1524	0.016076	62204384.23
1653925216	Connection	CN23	Bellcore Issue 6	Level I		0.030915	1.00	.2931	0.030915	32346279.80
1129701080	Capacitor	C1,C157,C160,C165,C166,C185,C- 186,C2,C204,C206,C210,C217,C22	Bellcore Issue 6	Level I		0.002751	13.00	.3391	0.035760	363537278.90
1129701080	Capacitor	C224,C229,C234,C239,C247,C250- C255,C265,C268,C271,C285,C295	Bellcore Issue 6	Level I		0.002751	12.00	.3130	0.033009	363537278.90
1129701080	Capacitor	C298,C3,C307,C31,C321-C324,C3- 42,C345,C346,C347,C350,C368	Bellcore Issue 6	Level I		0.002751	14.00	.3652	0.038510	363537278.90
1129701080	Capacitor	C369,C37,C38,C385,C39,C4,C401- C407,C409,C411,C416,C420,C426	Bellcore Issue 6	Level I		0.002751	13.00	.3391	0.035760	363537278.90

AAEON Reliability Prediction Report

Part Number 9697635020-DIP
Reference Des
Date 11. 2, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 26.60



Description
File Name TF-AEC-6845-A1-1010.RPJ
Time 2:56 下午
Failure Rate 10.546406
MTBF 94,819

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1129701080	Capacitor	C427,C43,C430,C437,C438,C443,-C462,C477,C478,C48,C480,C481	Bellcore Issue 6	Level I		0.002751	12.00	.3130	0.033009	363537278.90
1129701080	Capacitor	C486,C487,C495,C496,C5,C502,C-503,C56,C64,C73,C77,C80,C94	Bellcore Issue 6	Level I		0.002751	13.00	.3391	0.035760	363537278.90
1124405090	Capacitor	C63,C7,C8,C90	Bellcore Issue 6	Level I		0.001071	4.00	.0406	0.004285	933444816.99
1129701790	Capacitor	C16,C181,C182,C215,C232,C240,-C256,C278,C280,C336-C338,C361	Bellcore Issue 6	Level I		0.001614	13.00	.1990	0.020985	619480886.29
1129701790	Capacitor	C362-C364,C45-C47,C55,C74,C75	Bellcore Issue 6	Level I		0.001614	9.00	.1378	0.014528	619480886.29
1189622185	Capacitor	C243	Bellcore Issue 6	Level I	21.80	0.000811	1.00	.0077	0.000811	1233439190.54
1189622185	Capacitor	C242	Bellcore Issue 6	Level I	22.10	0.000812	1.00	.0077	0.000812	1231365049.49
1189622185	Capacitor	C155	Bellcore Issue 6	Level I	22.10	0.000812	1.00	.0077	0.000812	1231365049.49
1189622185	Capacitor	C17	Bellcore Issue 6	Level I	8.10	0.000748	1.00	.0071	0.000748	1336642419.06
1129710050	Capacitor	C104,C105,C110,C164,C189,C191-C200,C201,C213,C214,C41	Bellcore Issue 6	Level I		0.002751	11.00	.2869	0.030258	363537278.90
1129710050	Capacitor	C233,C248,C249,C272-276,C283,-C290-C292,C308,C309,C316,C317	Bellcore Issue 6	Level I		0.002751	16.00	.4173	0.044012	363537278.90
1129710050	Capacitor	C320,C325,C331,C34,C360,C365,-C406,C413,C439,C442,C454,C499	Bellcore Issue 6	Level I		0.002751	12.00	.3130	0.033009	363537278.90
1129710050	Capacitor	C501,C522,C53,C59,C82	Bellcore Issue 6	Level I		0.002751	5.00	.1304	0.013754	363537278.90
1129722090	Capacitor	C148,C328,C494,C518,C519,C89	Bellcore Issue 6	Level I		0.005523	6.00	.3142	0.033136	181069665.08
1129722090	Capacitor	C117	Bellcore Issue 6	Level I	8.70	0.005833	1.00	.0553	0.005833	171442407.51
1129710390	Capacitor	C348,C349,C374,C375,C386,C387-C393,C395,C396,C408,C418,C425	Bellcore Issue 6	Level I		0.001071	12.00	.1219	0.012856	933444816.99
1129710390	Capacitor	C498,C97	Bellcore Issue 6	Level I		0.001071	2.00	.0203	0.002143	933444816.99
1124410190	Capacitor	C158,C161,C211,C228,C231,C251-C277,C293	Bellcore Issue 6	Level I		0.001071	8.00	.0813	0.008570	933444816.99
1124612180	Capacitor	C151,C152	Bellcore Issue 6	Level I		0.001071	2.00	.0203	0.002143	933444816.99
1121722780	Capacitor	C192-C197,C226,C227,C236,C238-C254,C267,C284,C287-C289,C299	Bellcore Issue 6	Level I		0.002566	17.00	.4135	0.043614	389779766.53
1121722780	Capacitor	C300,C310-C315	Bellcore Issue 6	Level I		0.002566	7.00	.1703	0.017959	389779766.53
1124582280	Capacitor	C219	Bellcore Issue 6	Level I		0.001071	1.00	.0102	0.001071	933444816.99
14S3006000	Integrated Circuit	U14	Bellcore Issue 6	Level I		0.066696	1.00	.6324	0.066696	14993388.27
14S4070610	Integrated Circuit	U15	Bellcore Issue 6	Level I		0.066696	1.00	.6324	0.066696	14993388.27
1314880510	Semiconductor	U18	Bellcore Issue 6	Level I		0.083329	1.00	.7901	0.083329	12000665.43
1315441011	Semiconductor	U21,U24	Bellcore Issue 6	Level I		0.051562	2.00	.9778	0.103125	19393968.21

