

AEC-6915

Reliability Prediction Report

(MTBF)

Report NO : 07P070012

12-10-2007

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** TF-AEC-6915-A1-1010

II . **Prediction Date:** Dec. 10, 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: 24.5 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.

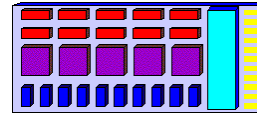
VIII. Prediction Result:

TF-AEC-6915-A1-1010

- MTBF Failure Rate: 20.929526 ppm
- MTBF: 47,779 Hours

AAEON Reliability Prediction Report

Part Number
Reference Des
Date 12. 10, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.50

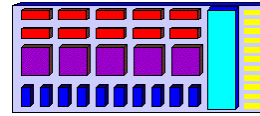


Description Top-level assembly
File Name TF-AEC-6915-A1-1010.RPJ
Time 2:33 下午
Failure Rate 20.929526
MTBF 47,779

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-AEC-6915-A1-1010		Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	20.929526	47,779
ASS'Y CD-ROM	9697T02302	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	0.073420	13,620,219
Transfer Board T023								
ASS'Y PER-R14P	9697R14P00	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	0.883691	1,131,618
COM-915 B1.0	9697091514-DIP	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	10.142192	98,598
I/O Board T089 Rev. A1.0	9697T08906-DIP	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	9.830223	101,727

AAEON Reliability Prediction Report

Part Number 9697T02302
Reference Des
Date 12. 10, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.50



Description
File Name TF-AEC-6915-A1-1010.RPJ
Time 2:33 下午
Failure Rate 0.073420
MTBF 13,620,219

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1653002101	Connection	JP1	Bellcore Issue 6	Level I		0.001109	1.00	1.5099	0.001109	902082374.77
1122701680	Capacitor	C2,C4	Bellcore Issue 6	Level I		0.004491	2.00	12.2340	0.008982	222661581.45
1121610060	Capacitor	C1,C3	Bellcore Issue 6	Level I		0.004491	2.00	12.2340	0.008982	222661581.45
105A701033	Resistor	R1	Bellcore Issue 6	Level I		0.002246	1.00	3.0585	0.002246	445323162.91
1654050000	Connection	CN2	Bellcore Issue 6	Level I		0.027714	1.00	37.7466	0.027714	36083294.99
1653222200	Connection	CN1	Bellcore Issue 6	Level I		0.024388	1.00	33.2170	0.024388	41003744.31

AAEON Reliability Prediction Report

Part Number 9697091514-DIP
Reference Des
Date 12. 10, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.50

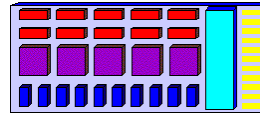


Description
File Name TF-AEC-6915-A1-1010.RPJ
Time 2:33 下午
Failure Rate 10.142192
MTBF 98,598

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1653002101	Connection	JP1	Bellcore Issue 6	Level I		0.001109	1.00	.0109	0.001109	902082374.77
105A500233	Resistor	R23,R304	Bellcore Issue 6	Level I		0.002246	2.00	.0443	0.004491	445323162.91
105A512103	Resistor	R278,R279	Bellcore Issue 6	Level I		0.002246	2.00	.0443	0.004491	445323162.91
105A700003	Resistor	R22,R277,R280,R283,R308,R318,- R322-R326,R92,R298,R300,R395	Bellcore Issue 6	Level I		0.002246	15.00	.3321	0.033683	445323162.91
105A701003	Resistor	R135,R275	Bellcore Issue 6	Level I		0.002246	2.00	.0443	0.004491	445323162.91
105A701053	Resistor	R102	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
1059700001	Resistor	R343,R349,R91	Bellcore Issue 6	Level I		0.002246	3.00	.0664	0.006737	445323162.91
1050700002	Resistor	R320,R328	Bellcore Issue 6	Level I		0.002246	2.00	.0443	0.004491	445323162.91
105A710053	Resistor	R132	Bellcore Issue 6	Level I		0.013473	1.00	.1328	0.013473	74220527.15
105A500133	Resistor	R139,R21,R301,R93	Bellcore Issue 6	Level I		0.002246	4.00	.0886	0.008982	445323162.91
105A501223	Resistor	R317	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
105A502033	Resistor	R123,R297	Bellcore Issue 6	Level I		0.002246	2.00	.0443	0.004491	445323162.91
105A510003	Resistor	R134,R28,R32,R36	Bellcore Issue 6	Level I		0.002246	4.00	.0886	0.008982	445323162.91
105A510033	Resistor	R310	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
105A511503	Resistor	R220,R401	Bellcore Issue 6	Level I		0.002246	2.00	.0443	0.004491	445323162.91
105A519103	Resistor	R402	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
105A515003	Resistor	R13,R17,R41-R43,R50-R52	Bellcore Issue 6	Level I		0.002246	8.00	.1771	0.017964	445323162.91
105A518703	Resistor	R224	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
105A549913	Resistor	R58	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
105A556003	Resistor	R282	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
105A701523	Resistor	R59	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
105A702233	Resistor	R255	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
105A703903	Resistor	R53,R54	Bellcore Issue 6	Level I		0.002246	2.00	.0443	0.004491	445323162.91
105A768003	Resistor	R19	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
1212306030	Inductor	L14	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
1231332721	Miscellaneous	Y1	Bellcore Issue 6	Level I		0.150000	1.00	1.4790	0.150000	6666666.67
1121722650	Capacitor	C303-C305,C309,C310,C336,C370	Bellcore Issue 6	Level I		0.004491	7.00	.3100	0.031438	222661581.45
1121733780	Capacitor	C372,C382	Bellcore Issue 6	Level I		0.004491	2.00	.0886	0.008982	222661581.45
1122722780	Capacitor	C102,C103,C116,C120,C124,C129- C131,C133	Bellcore Issue 6	Level I		0.004491	8.00	.3543	0.035929	222661581.45
1124515850	Capacitor	C387	Bellcore Issue 6	Level I		0.004491	1.00	.0443	0.004491	222661581.45

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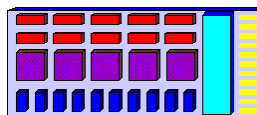


Description
File Name TF-AEC-6915-A1-1010.RPJ
Time 2:33 下午
Failure Rate 10.142192
MTBF 98,598

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1124522280	Capacitor	C404	Bellcore Issue 6	Level I		0.004491	1.00	.0443	0.004491	222661581.45
1124527850	Capacitor	C368	Bellcore Issue 6	Level I		0.004491	1.00	.0443	0.004491	222661581.45
1124556180	Capacitor	C389	Bellcore Issue 6	Level I		0.004491	1.00	.0443	0.004491	222661581.45
1540710380	Resistor	RN9	Bellcore Issue 6	Level I		0.006105	1.00	.0602	0.006105	163811358.98
1301005440	Semiconductor	D5,D7	Bellcore Issue 6	Level I		0.023540	2.00	.4642	0.047079	42481426.42
1211100102	Inductor	L15,L2,L3	Bellcore Issue 6	Level I		0.085331	3.00	2.5240	0.255994	11719030.60
121110010S	Inductor	L25	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
121110010Z	Inductor	L1,L4	Bellcore Issue 6	Level I		0.002246	2.00	.0443	0.004491	445323162.91
1540782280	Resistor	RN10,RN3-RN8	Bellcore Issue 6	Level I		0.006105	7.00	.4213	0.042732	163811358.98
1310390410	Semiconductor	Q3	Bellcore Issue 6	Level I		0.023540	1.00	.2321	0.023540	42481426.42
1314108515	Integrated Circuit	Q16	Bellcore Issue 6	Level I		0.057230	1.00	.5643	0.057230	17473277.64
1314108610	Integrated Circuit	Q2	Bellcore Issue 6	Level I		0.057230	1.00	.5643	0.057230	17473277.64
1651203291	Connection	U7	Bellcore Issue 6	Level I		0.017737	1.00	.1749	0.017737	56380148.42
14S9103200	Integrated Circuit	U30	Bellcore Issue 6	Level I		0.029497	1.00	.2908	0.029497	33901490.55
1212306033	Inductor	L8-L13	Bellcore Issue 6	Level I		0.002246	6.00	.1328	0.013473	445323162.91
1315700211	Semiconductor	Q10-Q12	Bellcore Issue 6	Level I		0.078466	3.00	2.3210	0.235397	12744427.92
14S4751100	Inductor	U36	Bellcore Issue 6	Level I		0.134734	1.00	1.3284	0.134734	7422052.72
105A520003	Resistor	R1,R37	Bellcore Issue 6	Level I		0.002246	2.00	.0443	0.004491	445323162.91
1121747780	Capacitor	C100,C101	Bellcore Issue 6	Level I		0.004491	2.00	.0886	0.008982	222661581.45
105A540263	Resistor	R87,R88	Bellcore Issue 6	Level I		0.002246	2.00	.0443	0.004491	445323162.91
105A539263	Resistor	R15	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
105A527463	Resistor	R18,R3,R5	Bellcore Issue 6	Level I		0.002246	3.00	.0664	0.006737	445323162.91
105A511313	Resistor	R302	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
105A700103	Resistor	R136,R316,R329	Bellcore Issue 6	Level I		0.002246	3.00	.0664	0.006737	445323162.91
105A500333	Resistor	R284	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
105A708229	Resistor	R140-R142,R150,R151,R153,R154-R186	Bellcore Issue 6	Level I		0.002246	8.00	.1771	0.017964	445323162.91
105A700139	Resistor	R10,R147,R155,R249,R252,R253,-R257,R259,R260,R95,R97,R99,R3-61,R362	Bellcore Issue 6	Level I		0.002246	14.00	.3100	0.031438	445323162.91
105A704729	Resistor	R296,R335,R263,R365,R366,R367	Bellcore Issue 6	Level I		0.002246	6.00	.1328	0.013473	445323162.91

AAEON Reliability Prediction Report

Part Number 9697091514-DIP
Reference Des
Date 12. 10, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.50



Description
File Name TF-AEC-6915-A1-1010.RPJ
Time 2:33 下午
Failure Rate 10.142192
MTBF 98,598

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
14S5A00401	Integrated Circuit	U12	Bellcore Issue 6	Level I		0.038156	1.00	.3762	0.038156	26208416.20
1129722680	Capacitor	C108,C248-C250,C252,C253	Bellcore Issue 6	Level I		0.004491	6.00	.2657	0.026947	222661581.45
105A702263	Resistor	R281,R295,R299	Bellcore Issue 6	Level I		0.002246	3.00	.0664	0.006737	445323162.91
123131435B	Miscellaneous	Y2	Bellcore Issue 6	Level I		0.150000	1.00	1.4790	0.150000	6666666.67
105A545323	Resistor	R336	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
1314043210	Integrated Circuit	Q1	Bellcore Issue 6	Level I		0.057230	1.00	.5643	0.057230	17473277.64
105A547503	Resistor	R199	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
105A524963	Resistor	R107,R115,R30,R35,R60	Bellcore Issue 6	Level I		0.002246	5.00	.1107	0.011228	445323162.91
1121610060	Capacitor	C302,C311,C315,C316,C365,C366-C391,C392	Bellcore Issue 6	Level I		0.004491	8.00	.3543	0.035929	222661581.45
1315668012	Semiconductor	U14,U15,U20,U21,U28,U29	Bellcore Issue 6	Level I		0.156931	6.00	9.2839	0.941588	6372213.96
105A513723	Resistor	R331	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
1315889611	Semiconductor	U22,U23,U25,U26	Bellcore Issue 6	Level I		0.078466	4.00	3.0946	0.313863	12744427.92
1124518280	Capacitor	C380	Bellcore Issue 6	Level I		0.004491	1.00	.0443	0.004491	222661581.45
121110100E	Inductor	L5,L6	Bellcore Issue 6	Level I		0.085331	2.00	1.6827	0.170663	11719030.60
1189633181	Capacitor	C317,C321,C322,C339	Bellcore Issue 6	Level I		0.004491	4.00	.1771	0.017964	222661581.45
1189647180	Capacitor	C104,C106,C344,C347,C350,C351-C354,C355,C363,C4,C94,C96	Bellcore Issue 6	Level I		0.004491	12.00	.5314	0.053893	222661581.45
1189647181	Capacitor	C437	Bellcore Issue 6	Level I		0.004491	1.00	.0443	0.004491	222661581.45
105A522663	Resistor	R130	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
1304101340	Semiconductor	LED1	Bellcore Issue 6	Level I		0.004658	1.00	.0459	0.004658	214673290.66
105A710039	Resistor	R258	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
105A701539	Resistor	R276	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
105A507509	Resistor	R109,R137	Bellcore Issue 6	Level I		0.002246	2.00	.0443	0.004491	445323162.91
1124427090	Capacitor	C239,C240	Bellcore Issue 6	Level I		0.004491	2.00	.0886	0.008982	222661581.45
105A549969	Resistor	R157,R159,R161,R163,R165,R167-R169,R171,R173,R175,R177,R179-R181,R183	Bellcore Issue 6	Level I		0.002246	14.00	.3100	0.031438	445323162.91
105A549969	Resistor	R347,R348,R359,R360	Bellcore Issue 6	Level I		0.002246	4.00	.0886	0.008982	445323162.91
105A501039	Resistor	R207,R208	Bellcore Issue 6	Level I		0.002246	2.00	.0443	0.004491	445323162.91
121230805L	Inductor	L16,L17,L20,L24,L7	Bellcore Issue 6	Level I		0.002246	5.00	.1107	0.011228	445323162.91
1124547290	Capacitor	C324	Bellcore Issue 6	Level I		0.004491	1.00	.0443	0.004491	222661581.45

AAEON Reliability Prediction Report

Part Number 9697091514-DIP
Reference Des
Date 12. 10, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.50



Description
File Name TF-AEC-6915-A1-1010.RPJ
Time 2:33 下午
Failure Rate 10.142192
MTBF 98,598

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A705609	Resistor	R104,R110,R16,R2,R212,R213-R2-19,R221-R223,R225-R239,R26,R61-R86	Bellcore Issue 6	Level I		0.002246	57.00	1.2620	0.127997	445323162.91
1189922180	Capacitor	C110,C155,C156,C243,C345-C346-C375-C377,C79	Bellcore Issue 6	Level I		0.004491	11.00	.4871	0.049402	222661581.45
1189922180	Capacitor	C30	Bellcore Issue 6	Level I		0.004491	1.00	.0443	0.004491	222661581.45
1189922180	Capacitor	C378	Bellcore Issue 6	Level I		0.004491	1.00	.0443	0.004491	222661581.45
1189922180	Capacitor	C5	Bellcore Issue 6	Level I		0.004491	1.00	.0443	0.004491	222661581.45
105A510009	Resistor	R247,R248	Bellcore Issue 6	Level I		0.002246	2.00	.0443	0.004491	445323162.91
1301005444	Semiconductor	D1,D10,D2,D3,D9	Bellcore Issue 6	Level I		0.023540	5.00	1.1605	0.117698	42481426.42
105A554963	Resistor	R14,R29,R33,R4,R6	Bellcore Issue 6	Level I		0.002246	5.00	.1107	0.011228	445323162.91
105A510213	Resistor	R306	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
105A532413	Resistor	R307,R330	Bellcore Issue 6	Level I		0.002246	2.00	.0443	0.004491	445323162.91
1211103366	Inductor	L21	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
1129610051	Capacitor	C10,C11,C111-C113,C118,C12,C1-22,C127,C13,C14,C143,C15,C17,C-18,C19,C199,C2,C20,C21	Bellcore Issue 6	Level I		0.004491	20.00	.8856	0.089822	222661581.45
1129610051	Capacitor	C217,C219,C223,C245,C247,C299-C323,C358,C434,C438	Bellcore Issue 6	Level I		0.004491	10.00	.4428	0.044911	222661581.45
1129610051	Capacitor	C359,C360,C393,C401,C7,C77,C78-C8,C86-C88,C9,C99	Bellcore Issue 6	Level I		0.004491	13.00	.5757	0.058385	222661581.45
1315700310	Semiconductor	Q5,Q7-Q8	Bellcore Issue 6	Level I		0.078466	3.00	2.3210	0.235397	12744427.92
1315700310	Semiconductor	Q9	Bellcore Issue 6	Level I	45.70	0.245920	1.00	2.4247	0.245920	4066363.07
1315600312	Semiconductor	Q6	Bellcore Issue 6	Level I		0.078466	1.00	.7737	0.078466	12744427.92
105A525503	Resistor	R57	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
1121701790	Capacitor	C1,C352	Bellcore Issue 6	Level I		0.004491	2.00	.0886	0.008982	222661581.45
1314158210	Integrated Circuit	Q4	Bellcore Issue 6	Level I		0.057230	1.00	.5643	0.057230	17473277.64
1651611990	Connection	U1	Bellcore Issue 6	Level I		0.001109	1.00	.0109	0.001109	902082374.77
1301003440	Semiconductor	D11,D8	Bellcore Issue 6	Level I		0.023540	2.00	.4642	0.047079	42481426.42
105A580663	Resistor	R89,R90	Bellcore Issue 6	Level I		0.002246	2.00	.0443	0.004491	445323162.91
14S4653700	Integrated Circuit	U19	Bellcore Issue 6	Level I	47.70	1.169745	1.00	11.5335	1.169745	854886.86
11E9610190	Capacitor	C279,C282,C403,C6,C92	Bellcore Issue 6	Level I		0.004491	5.00	.2214	0.022456	222661581.45
105A507533	Resistor	R338	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91
105A535713	Resistor	R339	Bellcore Issue 6	Level I		0.002246	1.00	.0221	0.002246	445323162.91

AAEON Reliability Prediction Report

Part Number 9697T08906-DIP
Reference Des
Date 12. 10, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.50



Description
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Time 2:33 下午
Failure Rate 9.830223
MTBF 101,727

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1601123600	Connection	S1	Bellcore Issue 6	Level I		0.002217	1.00	.0226	0.002217	451041187.39
1653003100	Connection	J2,J3,JP1,JP2,JP6	Bellcore Issue 6	Level I		0.001663	5.00	.0846	0.008314	601388249.85
1653003101	Connection	JP7,JP8	Bellcore Issue 6	Level I		0.001663	2.00	.0338	0.003326	601388249.85
1653003201	Connection	JP3-JP5	Bellcore Issue 6	Level I		0.003326	3.00	.1015	0.009977	300694124.92
1654418100	Connection	COM1	Bellcore Issue 6	Level I		0.022171	1.00	.2255	0.022171	45104118.74
1654808300	Connection	USB1,USB2	Bellcore Issue 6	Level I		0.022171	2.00	.4511	0.044342	45104118.74
1750119011	Miscellaneous	BT1	Bellcore Issue 6	Level I		0.900000	1.00	9.1554	0.900000	1111111.11
1655003010	Connection	CN3	Bellcore Issue 6	Level I		0.001663	1.00	.0169	0.001663	601388249.85
1653900034	Connection	CFD1	Bellcore Issue 6	Level I		0.001109	1.00	.0113	0.001109	902082374.77
1654609300	Connection	Audio	Bellcore Issue 6	Level I		0.022171	1.00	.2255	0.022171	45104118.74
1653210203	Connection	CN9	Bellcore Issue 6	Level I		0.011085	1.00	.1128	0.011085	90208237.48
1111610194	Capacitor	C157,C158,C167,C168,C20-C22,C-47,C48,C6,C66,C67	Bellcore Issue 6	Level I		0.041570	12.00	5.0746	0.498846	24055529.99
1750220323	Connection	BT1	Bellcore Issue 6	Level I		0.001109	1.00	.0113	0.001109	902082374.77
1654606306	Connection	CN4	Bellcore Issue 6	Level I		0.003326	1.00	.0338	0.003326	300694124.92
1111610211	Capacitor	EC6	Bellcore Issue 6	Level I		0.069284	1.00	.7048	0.069284	14433318.00
1304451400	Semiconductor	D17	Bellcore Issue 6	Level I		0.004658	1.00	.0474	0.004658	214673290.66
1652003101	Connection	CN2	Bellcore Issue 6	Level I		0.001663	1.00	.0169	0.001663	601388249.85
1654260207	Connection	PCI1	Bellcore Issue 6	Level I		0.066513	1.00	.6766	0.066513	15034706.25
111961029H	Capacitor	EC4,EC5	Bellcore Issue 6	Level I		0.069284	2.00	1.4096	0.138568	14433318.00
1189647193	Capacitor	EC2,EC3	Bellcore Issue 6	Level I		0.004491	2.00	.0914	0.008982	222661581.45
1181647110	Capacitor	EC1,EC14,EC15,EC8,EC9	Bellcore Issue 6	Level I		0.004491	5.00	.2284	0.022456	222661581.45
1655102010	Connection	SW1	Bellcore Issue 6	Level I		0.022171	1.00	.2255	0.022171	45104118.74
1652514209	Connection	CN5	Bellcore Issue 6	Level I		0.022171	1.00	.2255	0.022171	45104118.74
1654907004	Connection	SATA1,SATA2	Bellcore Issue 6	Level I		0.003880	2.00	.0789	0.007760	257737821.36
1189618090	Capacitor	C126,C33,C54,C9	Bellcore Issue 6	Level I		0.004491	4.00	.1827	0.017964	222661581.45
1654415309	Connection	CRT	Bellcore Issue 6	Level I		0.008314	1.00	.0846	0.008314	120277649.97
1655104005	Connection	J1	Bellcore Issue 6	Level I		0.002217	1.00	.0226	0.002217	451041187.39
105A501033	Resistor	R170,R185,R186,R259,R260,R266-R270	Bellcore Issue 6	Level I		0.002246	7.00	.1599	0.015719	445323162.91
105A512103	Resistor	R239	Bellcore Issue 6	Level I		0.002246	1.00	.0228	0.002246	445323162.91

AAEON Reliability Prediction Report

Part Number 9697T08906-DIP
Reference Des
Date 12. 10, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.50



Description
File Name TF-AEC-6915-A1-1010.RPJ
Time 2:33 下午
Failure Rate 9.830223
MTBF 101,727

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A700003	Resistor	FB10-FB14,FB17,FB20,FB25-FB27-,FB31,FB32,FB7-FB9,R102,R115,R-116,R118,R121,R123,R146,R166,R-17,R171,R178,R18,R181,R193	Bellcore Issue 6	Level I		0.002246	29.00	.6625	0.065121	445323162.91
105A700003	Resistor	R204,R206,R208,R221,R228,R237-,R242,R254,R28,R287,R32,R35,R3-6,R39,R40,R42-R44,R46,R47,R49,-R50,R54,R64,R69,R71,R72	Bellcore Issue 6	Level I		0.002246	27.00	.6168	0.060630	445323162.91
105A700003	Resistor	R74-R76,R78,R85	Bellcore Issue 6	Level I		0.002246	5.00	.1142	0.011228	445323162.91
105A700233	Resistor	R156	Bellcore Issue 6	Level I		0.002246	1.00	.0228	0.002246	445323162.91
105A701003	Resistor	R174,R216,R218	Bellcore Issue 6	Level I		0.002246	3.00	.0685	0.006737	445323162.91
105A701053	Resistor	R250,R31,R45	Bellcore Issue 6	Level I		0.002246	3.00	.0685	0.006737	445323162.91
105A702203	Resistor	R132-R134,R150,R159,R160	Bellcore Issue 6	Level I		0.002246	6.00	.1371	0.013473	445323162.91
105A703303	Resistor	R10,R215,R23,R247,R253	Bellcore Issue 6	Level I		0.002246	5.00	.1142	0.011228	445323162.91
105A704723	Resistor	R161,R177,R189,R199,R201,R207-,R209,R210,R2123,R22,R223,R226-,R234,R236,R24,R255,R256,R6,R62	Bellcore Issue 6	Level I		0.002246	19.00	.4340	0.042666	445323162.91
105A708223	Resistor	R117,R195,R197,R8	Bellcore Issue 6	Level I		0.002246	4.00	.0914	0.008982	445323162.91
105A700133	Resistor	R142,R144,R145,R179,R180,R191-,R198,R20,R241,R25,R274-R276,R-60	Bellcore Issue 6	Level I		0.002246	14.00	.3198	0.031438	445323162.91
105A733003	Resistor	R122,R277,R279,R7,R81	Bellcore Issue 6	Level I		0.002246	5.00	.1142	0.011228	445323162.91
105A701033	Resistor	R13,R138,R14,R148,R240,R243,R-248,R280,R4,R48,R89	Bellcore Issue 6	Level I		0.002246	11.00	.2513	0.024701	445323162.91
105A782003	Resistor	R284,R285	Bellcore Issue 6	Level I		0.002246	2.00	.0457	0.004491	445323162.91
1059501001	Resistor	R41	Bellcore Issue 6	Level I		0.002246	1.00	.0228	0.002246	445323162.91
1059700001	Resistor	R26	Bellcore Issue 6	Level I		0.002246	1.00	.0228	0.002246	445323162.91
105A502033	Resistor	R19	Bellcore Issue 6	Level I		0.002246	1.00	.0228	0.002246	445323162.91
105A503033	Resistor	R263	Bellcore Issue 6	Level I		0.002246	1.00	.0228	0.002246	445323162.91
105A503323	Resistor	R101,R108,R110,R124,R128,R68	Bellcore Issue 6	Level I		0.002246	6.00	.1371	0.013473	445323162.91
105A507503	Resistor	R281-R283	Bellcore Issue 6	Level I		0.002246	3.00	.0685	0.006737	445323162.91
105A510003	Resistor	R176	Bellcore Issue 6	Level I		0.002246	1.00	.0228	0.002246	445323162.91
105A512413	Resistor	R167,R172	Bellcore Issue 6	Level I		0.002246	2.00	.0457	0.004491	445323162.91
105A515003	Resistor	R231-R233	Bellcore Issue 6	Level I		0.002246	3.00	.0685	0.006737	445323162.91
105A524913	Resistor	R182	Bellcore Issue 6	Level I		0.002246	1.00	.0228	0.002246	445323162.91

AAEON Reliability Prediction Report

Part Number 9697T08906-DIP
Reference Des
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Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.50

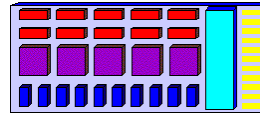


Description
File Name TF-AEC-6915-A1-1010.RPJ
Time 2:33 下午
Failure Rate 9.830223
MTBF 101,727

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A549913	Resistor	R96	Bellcore Issue 6	Level I		0.002246	1.00	.0228	0.002246	445323162.91
105A549963	Resistor	R100,R112-R114,R83,R84,R87,R97-R99	Bellcore Issue 6	Level I		0.002246	10.00	.2284	0.022456	445323162.91
105A702233	Resistor	R190,R192,R194,R196,R200,R205-R21,R73	Bellcore Issue 6	Level I		0.002246	8.00	.1827	0.017964	445323162.91
105A703903	Resistor	R220,R227,R90-R93	Bellcore Issue 6	Level I		0.002246	6.00	.1371	0.013473	445323162.91
105A705133	Resistor	R252	Bellcore Issue 6	Level I		0.002246	1.00	.0228	0.002246	445323162.91
105A710033	Resistor	R230,R235,R61	Bellcore Issue 6	Level I		0.002246	3.00	.0685	0.006737	445323162.91
105A747033	Resistor	R30,R59	Bellcore Issue 6	Level I		0.002246	2.00	.0457	0.004491	445323162.91
105A756033	Resistor	R29,R56	Bellcore Issue 6	Level I		0.002246	2.00	.0457	0.004491	445323162.91
1212306032	Inductor	FB18,FB19,FB21-FB24,FB28,FB29-FB3,FB30,FB4-FB6	Bellcore Issue 6	Level I		0.002246	13.00	.2970	0.029192	445323162.91
1233324050	Miscellaneous	OSC1	Bellcore Issue 6	Level I		0.360000	1.00	3.6622	0.360000	2777777.78
1124422080	Capacitor	C198,C199,C81,C83	Bellcore Issue 6	Level I		0.004491	4.00	.1827	0.017964	222661581.45
1124510080	Capacitor	C171,C200,C31	Bellcore Issue 6	Level I		0.004491	3.00	.1371	0.013473	222661581.45
1124510280	Capacitor	C160,C161,C41,C60	Bellcore Issue 6	Level I		0.004491	4.00	.1827	0.017964	222661581.45
1124501750	Capacitor	C274	Bellcore Issue 6	Level I		0.004491	1.00	.0457	0.004491	222661581.45
1124522180	Capacitor	C18	Bellcore Issue 6	Level I		0.004491	1.00	.0457	0.004491	222661581.45
1124533080	Capacitor	C53,C57	Bellcore Issue 6	Level I		0.004491	2.00	.0914	0.008982	222661581.45
1124547080	Capacitor	C203,C206,C207,C209,C211,C216-C218,C263,C264,C268	Bellcore Issue 6	Level I		0.004491	10.00	.4569	0.044911	222661581.45
1124547180	Capacitor	C32,C37,C38,C40	Bellcore Issue 6	Level I		0.004491	4.00	.1827	0.017964	222661581.45
1300003240	Semiconductor	D10	Bellcore Issue 6	Level I		0.023540	1.00	.2395	0.023540	42481426.42
1124547280	Capacitor	C27,C270-C273,C28-C30	Bellcore Issue 6	Level I		0.004491	8.00	.3655	0.035929	222661581.45
1540710080	Resistor	RP2-RP9	Bellcore Issue 6	Level I		0.006105	8.00	.4968	0.048837	163811358.98
1124701650	Capacitor	C219	Bellcore Issue 6	Level I		0.004491	1.00	.0457	0.004491	222661581.45
1125501760	Capacitor	C8	Bellcore Issue 6	Level I		0.004491	1.00	.0457	0.004491	222661581.45
1129747650	Capacitor	C61	Bellcore Issue 6	Level I		0.004491	1.00	.0457	0.004491	222661581.45
1142610060	Capacitor	C221,C224,C45	Bellcore Issue 6	Level I		0.004491	3.00	.1371	0.013473	222661581.45
1301005440	Semiconductor	D12,D14,D15,D2	Bellcore Issue 6	Level I		0.023540	4.00	.9579	0.094159	42481426.42
1540782280	Resistor	RP1	Bellcore Issue 6	Level I		0.006105	1.00	.0621	0.006105	163811358.98
1310390410	Semiconductor	Q17	Bellcore Issue 6	Level I		0.023540	1.00	.2395	0.023540	42481426.42
14S4070610	Integrated Circuit	U11	Bellcore Issue 6	Level I		0.057230	1.00	.5822	0.057230	17473277.64

AAEON Reliability Prediction Report

Part Number 9697T08906-DIP
Reference Des
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Environment GF, GU - Ground Fixed, Uncontrolled
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Description
File Name TF-AEC-6915-A1-1010.RPJ
Time 2:33 下午
Failure Rate 9.830223
MTBF 101,727

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
14S4911216	Integrated Circuit	U10	Bellcore Issue 6	Level I	26.60	0.161075	1.00	1.6386	0.161075	6208299.60
14S4048501	Integrated Circuit	U17,U19	Bellcore Issue 6	Level I		0.057230	2.00	1.1644	0.114460	17473277.64
1301005442	Semiconductor	D11,D16,D9	Bellcore Issue 6	Level I		0.023540	3.00	.7184	0.070619	42481426.42
1212306033	Inductor	FB1,FB2	Bellcore Issue 6	Level I		0.002246	2.00	.0457	0.004491	445323162.91
14S4021310	Integrated Circuit	U14,U16,U22,U24	Bellcore Issue 6	Level I		0.057230	4.00	2.3287	0.228921	17473277.64
1315700211	Semiconductor	Q1,Q12,Q23-Q25,Q9	Bellcore Issue 6	Level I		0.078466	6.00	4.7893	0.470794	12744427.92
14S5A01400	Integrated Circuit	U18	Bellcore Issue 6	Level I		0.057230	1.00	.5822	0.057230	17473277.64
105A556223	Resistor	R37	Bellcore Issue 6	Level I		0.002246	1.00	.0228	0.002246	445323162.91
14S5A00700	Integrated Circuit	U13	Bellcore Issue 6	Level I		0.036790	1.00	.3743	0.036790	27181488.97
105A733033	Resistor	R155	Bellcore Issue 6	Level I		0.002246	1.00	.0228	0.002246	445323162.91
1124533180	Capacitor	C269	Bellcore Issue 6	Level I		0.004491	1.00	.0457	0.004491	222661581.45
1121547661	Capacitor	C10,C128,C143	Bellcore Issue 6	Level I		0.004491	3.00	.1371	0.013473	222661581.45
14S3020100	Integrated Circuit	U28	Bellcore Issue 6	Level I		0.057230	1.00	.5822	0.057230	17473277.64
1124701780	Capacitor	C25	Bellcore Issue 6	Level I		0.004491	1.00	.0457	0.004491	222661581.45
1123710090	Capacitor	C127,C135,C142	Bellcore Issue 6	Level I		0.004491	3.00	.1371	0.013473	222661581.45
105A503300	Resistor	R94,R95	Bellcore Issue 6	Level I		0.002246	2.00	.0457	0.004491	445323162.91
1121610180	Capacitor	C170,C174,C177,C179,C181,C185	Bellcore Issue 6	Level I		0.004491	6.00	.2741	0.026947	222661581.45
105A504703	Resistor	R104,R105,R119	Bellcore Issue 6	Level I		0.002246	3.00	.0685	0.006737	445323162.91
105A536503	Resistor	R238	Bellcore Issue 6	Level I		0.002246	1.00	.0228	0.002246	445323162.91
105A506823	Resistor	R217,R219,R258,R267	Bellcore Issue 6	Level I		0.002246	4.00	.0914	0.008982	445323162.91
105A704729	Resistor	R152,R175	Bellcore Issue 6	Level I		0.002246	2.00	.0457	0.004491	445323162.91
105A700009	Resistor	R149,R157	Bellcore Issue 6	Level I		0.002246	2.00	.0457	0.004491	445323162.91
1129701690	Capacitor	C100,C102,C103,C106,C107,C109- C111,C114,C116,C125,C13,C132,- C138,C139,C145,C148,C150,C153- C156,C159,C169,C172,C173	Bellcore Issue 6	Level I		0.004491	25.00	1.1422	0.112278	222661581.45
1129701690	Capacitor	C176,C180,C182,C184,C189,C191- C194,C196,C197,C204,C205,C208- C210,C212,C214,C215,C217,C222- C223,C227-C231,C233,C234	Bellcore Issue 6	Level I		0.004491	28.00	1.2792	0.125751	222661581.45
1129701690	Capacitor	C235,C236,C239,C242,C245-C251- C253-C258,C26,C265-C267,C3,C3- 4,C35,C4,C42-C44,C46,C49,C5,C5- 5,C58,C59,C62,C63,C69,C70	Bellcore Issue 6	Level I		0.004491	38.00	1.7361	0.170663	222661581.45

AAEON Reliability Prediction Report

Part Number 9697T08906-DIP
Reference Des
Date 12. 10, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.50



Description
File Name TF-AEC-6915-A1-1010.RPJ
Time 2:33 下午
Failure Rate 9.830223
MTBF 101,727

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1129701690	Capacitor	C73,C74,C76-C78,C84,C87,C88,C-91-C94,C97-C99	Bellcore Issue 6	Level I		0.004491	15.00	.6853	0.067367	222661581.45
1129701790	Capacitor	C122,C129	Bellcore Issue 6	Level I		0.004491	2.00	.0914	0.008982	222661581.45
14S5A00401	Integrated Circuit	U25	Bellcore Issue 6	Level I		0.038156	1.00	.3881	0.038156	26208416.20
1301053040	Semiconductor	D1	Bellcore Issue 6	Level I		0.023540	1.00	.2395	0.023540	42481426.42
1144647680	Capacitor	C12,C220	Bellcore Issue 6	Level I		0.004491	2.00	.0914	0.008982	222661581.45
105A702263	Resistor	R214,R51	Bellcore Issue 6	Level I		0.002246	2.00	.0457	0.004491	445323162.91
1315970110	Semiconductor	U2,U3,U6	Bellcore Issue 6	Level I		0.078466	3.00	2.3946	0.235397	12744427.92
1759100006	Miscellaneous	BZ1	Bellcore Issue 6	Level I		0.150000	1.00	1.5259	0.150000	6666666.67
1315002010	Semiconductor	Q18,Q19	Bellcore Issue 6	Level I		0.078466	2.00	1.5964	0.156931	12744427.92
14S5A12503	Integrated Circuit	U21	Bellcore Issue 6	Level I		0.038156	1.00	.3881	0.038156	26208416.20
105A515033	Resistor	R33	Bellcore Issue 6	Level I		0.002246	1.00	.0228	0.002246	445323162.91
106B501031	Resistor	RT1-RT3	Bellcore Issue 6	Level I		0.011085	3.00	.3383	0.033256	90208237.48
1311006910	Semiconductor	Q10,Q11	Bellcore Issue 6	Level I		0.023540	2.00	.4789	0.047079	42481426.42
1301002240	Semiconductor	D3,D5	Bellcore Issue 6	Level I		0.023540	2.00	.4789	0.047079	42481426.42
1314193110	Integrated Circuit	U1	Bellcore Issue 6	Level I		0.057230	1.00	.5822	0.057230	17473277.64
105A515433	Resistor	R12	Bellcore Issue 6	Level I		0.002246	1.00	.0228	0.002246	445323162.91
121230805L	Inductor	L3,L4	Bellcore Issue 6	Level I		0.002246	2.00	.0457	0.004491	445323162.91
1653925216	Connection	CFD1	Bellcore Issue 6	Level I		0.027714	1.00	.2819	0.027714	36083294.99
1121701080	Capacitor	C101,C104,C105,C108,C117,C118-,C162-C165,C175,C178,C183,C186-,C188,C190,C237,C238,C24,C252,-C56,C75,C80,C82,C89,C90	Bellcore Issue 6	Level I		0.004491	27.00	1.2335	0.121260	222661581.45
1124522290	Capacitor	C131	Bellcore Issue 6	Level I		0.004491	1.00	.0457	0.004491	222661581.45
105A502039	Resistor	R163	Bellcore Issue 6	Level I		0.002246	1.00	.0228	0.002246	445323162.91
1054600289	Resistor	R27,R63	Bellcore Issue 6	Level I		0.002246	2.00	.0457	0.004491	445323162.91
1315030210	Semiconductor	Q20	Bellcore Issue 6	Level I		0.078466	1.00	.7982	0.078466	12744427.92
105A518223	Resistor	R66	Bellcore Issue 6	Level I		0.002246	1.00	.0228	0.002246	445323162.91
1315441012	Semiconductor	Q6	Bellcore Issue 6	Level I		0.078466	1.00	.7982	0.078466	12744427.92
105A547523	Resistor	R34	Bellcore Issue 6	Level I		0.002246	1.00	.0228	0.002246	445323162.91
1129610051	Capacitor	C1,C166,C195,C2,C201,C213,C243-,C244,C36,C39,C50-C52,C64,C65-,C71,C72,C86,C95	Bellcore Issue 6	Level I		0.004491	19.00	.8681	0.085331	222661581.45

AAEON Reliability Prediction Report

Part Number 9697T08906-DIP
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Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.50



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File Name TF-AEC-6915-A1-1010.RPJ
Time 2:33 下午
Failure Rate 9.830223
MTBF 101,727

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1121722090	Capacitor	C19	Bellcore Issue 6	Level I		0.004491	1.00	.0457	0.004491	222661581.45
1315700310	Semiconductor	Q21	Bellcore Issue 6	Level I		0.078466	1.00	.7982	0.078466	12744427.92
14S3065500	Integrated Circuit	U20	Bellcore Issue 6	Level I	20.20	0.229413	1.00	2.3338	0.229413	4358944.86
105A534823	Resistor	R184	Bellcore Issue 6	Level I		0.002246	1.00	.0228	0.002246	445323162.91
1301003640	Semiconductor	D18,D19,D4,D7	Bellcore Issue 6	Level I		0.023540	4.00	.9579	0.094159	42481426.42
1301003440	Semiconductor	D20	Bellcore Issue 6	Level I		0.023540	1.00	.2395	0.023540	42481426.42
14S4871203	Integrated Circuit	U27	Bellcore Issue 6	Level I	17.90	0.103292	1.00	1.0508	0.103292	9681283.88
1315567011	Semiconductor	Q13,Q14,Q15,Q22,Q13,Q4,Q7,Q8,-Q14	Bellcore Issue 6	Level I		0.156931	9.00	14.3678	1.412382	6372213.96
11E9647680	Capacitor	C112,C225,C226,C232,C68,C85,C-96	Bellcore Issue 6	Level I		0.004491	7.00	.3198	0.031438	222661581.45
121230603S	Inductor	L5	Bellcore Issue 6	Level I		0.002246	1.00	.0228	0.002246	445323162.91
14S4650601	Integrated Circuit	U5	Bellcore Issue 6	Level I		0.057230	1.00	.5822	0.057230	17473277.64
1315442910	Semiconductor	Q5	Bellcore Issue 6	Level I		0.078466	1.00	.7982	0.078466	12744427.92
1231325058	Miscellaneous	Y1	Bellcore Issue 6	Level I		0.150000	1.00	1.5259	0.150000	6666666.67
1050597623	Resistor	R65	Bellcore Issue 6	Level I		0.002246	1.00	.0228	0.002246	445323162.91
1231324555	Miscellaneous	Y2	Bellcore Issue 6	Level I		0.150000	1.00	1.5259	0.150000	6666666.67
14S4121601	Integrated Circuit	U23	Bellcore Issue 6	Level I	19.20	0.110554	1.00	1.1246	0.110554	9045365.11
14S5A00601	Integrated Circuit	U7	Bellcore Issue 6	Level I		0.038156	1.00	.3881	0.038156	26208416.20
1059700201	Resistor	R79,R80	Bellcore Issue 6	Level I		0.002246	2.00	.0457	0.004491	445323162.91
1122522890	Capacitor	C140	Bellcore Issue 6	Level I		0.004491	1.00	.0457	0.004491	222661581.45
14S5A12506	Integrated Circuit	U15	Bellcore Issue 6	Level I		0.038156	1.00	.3881	0.038156	26208416.20
121110336H	Inductor	L8	Bellcore Issue 6	Level I		0.001712	1.00	.0174	0.001712	584278595.54
11C4501060	Capacitor	C136	Bellcore Issue 6	Level I		0.004491	1.00	.0457	0.004491	222661581.45
11C1522480	Capacitor	C124,C141	Bellcore Issue 6	Level I		0.004491	2.00	.0914	0.008982	222661581.45
121110100K	Inductor	L1,L2	Bellcore Issue 6	Level I		0.002246	2.00	.0457	0.004491	445323162.91
1053500279	Resistor	CR1,CR2	Bellcore Issue 6	Level I		0.002246	2.00	.0457	0.004491	445323162.91
14S3378000	Integrated Circuit	U12	Bellcore Issue 6	Level I	23.50	0.283084	1.00	2.8797	0.283084	3532517.66
14S4825730	Integrated Circuit	U8	Bellcore Issue 6	Level I		0.038156	1.00	.3881	0.038156	26208416.20
14S6308001	Integrated Circuit	U9	Bellcore Issue 6	Level I		0.046133	1.00	.4693	0.046133	21676386.22
1211102266	Inductor	L6	Bellcore Issue 6	Level I		0.001668	1.00	.0170	0.001668	599635879.51
1211102266	Inductor	L7	Bellcore Issue 6	Level I		0.001679	1.00	.0171	0.001679	595746862.15

