

ETX-821

Reliability Prediction Report (MTBF)

Report NO : 05E070012

05-23-2005

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . Model Name: ETX-821 (ASS'Y. ETX-821.Rev.A0.1.W/ICP-M 600M non-cache)

II . Prediction Date: May. 23, 2005

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: 28.2 degrees C
- Standard: Telcordia (Bellcore) Standard

VII. Term and Definition:

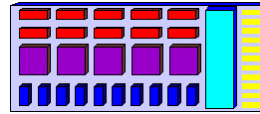
- Unit : An assembly of device.
- Duty Cycle : Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure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

- Failure Rate: 8.430738 ppm
- MTBF: 118,614 Hours

AAEON Reliability Prediction Report

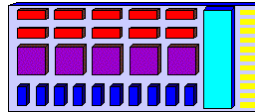
Part Number 9697821000
Reference Des
Date 05. 23, 2005
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 28.20



Description Top-level assembly
File Name 9697821000.RPJ
Time 3:35 下午
Failure Rate 8.430738
MTBF 118,614

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
ETX-821	9697821000	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	8.430738	118,614

AAEON Reliability Prediction Report



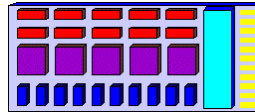
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Description Top-level assembly
File Name 9697821000.RPJ
Time 3:35 下午
Failure Rate 8.430738
MTBF 118,614

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1653003101	Connection	JP1	Bellcore Issue 6	Level I		0.002014	1.00	.0239	0.002014	496524679.91
14S6200400	Integrated Circuit	FWH1	Bellcore Issue 6	Level I		0.214370	1.00	2.5427	0.214370	4664835.23
105A512703	Resistor	R88	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A560463	Resistor	R116,R119	Bellcore Issue 6	Level I		0.002413	2.00	.0572	0.004826	414447952.19
105A515003	Resistor	R92,R96	Bellcore Issue 6	Level I		0.002413	2.00	.0572	0.004826	414447952.19
105A501523	Resistor	R94	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A708229	Resistor	R103,R173-R175,R177,R180,R182- R185,R194,R196,R201,R202,R230- R360,R361	Bellcore Issue 6	Level I		0.002413	15.00	.4293	0.036193	414447952.19
105A708229	Resistor	R368,R411,R412,R451,R452	Bellcore Issue 6	Level I		0.002413	5.00	.1431	0.012064	414447952.19
105A540263	Resistor	R107	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A702229	Resistor	R110,R111,R114,R115,R120,R121- R197,R199,R249,R267,R270	Bellcore Issue 6	Level I		0.002413	11.00	.3148	0.026541	414447952.19
16515A0998	Connection	CN1	Bellcore Issue 6	Level I		0.134267	1.00	1.5926	0.134267	7447870.20
1211100860	Inductor	L5	Bellcore Issue 6	Level I	13.70	0.117889	1.00	1.3983	0.117889	8482560.58
1211103360	Inductor	L10	Bellcore Issue 6	Level I	13.40	0.117269	1.00	1.3910	0.117269	8527378.33
1211103360	Inductor	L9	Bellcore Issue 6	Level I		0.091688	1.00	1.0875	0.091688	10906525.06
1315700212	Semiconductor	Q14,Q15,Q18,Q19,Q21-Q23	Bellcore Issue 6			0.058124	7.00	4.8260	0.406869	17204571.10
1540756081	Resistor	RP11,RP16,RP17,RP19,RP2,RP21- RP22,RP24,RP26-RP28,RP3,RP31- RP32,RP34	Bellcore Issue 6	Level I		0.007219	15.00	1.2844	0.108283	138526122.25
1540756081	Resistor	RP35,RP37,RP39,RP42,RP44,RP5- RP6,RP8	Bellcore Issue 6	Level I		0.007219	8.00	.6850	0.057751	138526122.25
14S3156500	Integrated Circuit	U25,U28	Bellcore Issue 6	Level I		0.074839	2.00	1.7754	0.149677	13362097.61
14S2705700	Integrated Circuit	U31	Bellcore Issue 6	Level I		0.074839	1.00	.8877	0.074839	13362097.61
14S5A00820	Integrated Circuit	U38,U40	Bellcore Issue 6	Level I		0.074839	2.00	1.7754	0.149677	13362097.61
14S2533100	Integrated Circuit	U41	Bellcore Issue 6	Level I		0.074839	1.00	.8877	0.074839	13362097.61
1231325050	Miscellaneous	Y3	Bellcore Issue 6	Level I		0.150000	1.00	1.7792	0.150000	6666666.67
105A551113	Resistor	R365	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A518223	Resistor	R375	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A571533	Resistor	R384	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
1121701080	Capacitor	C213,C216,C224,C251,C252,C258- C264,C265,C270,C302,C370,C379- C382,C392	Bellcore Issue 6	Level I		0.002592	14.00	.4304	0.036289	385791593.56

AAEON Reliability Prediction Report

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Temperature 28.20

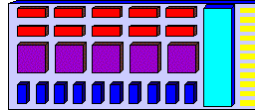


Description Top-level assembly
File Name 9697821000.RPJ
Time 3:35 下午
Failure Rate 8.430738
MTBF 118,614

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1121701080	Capacitor	C394,C406-C409,C70,C72	Bellcore Issue 6	Level I		0.002592	7.00	.2152	0.018145	385791593.56
1129747650	Capacitor	C122,C315	Bellcore Issue 6	Level I		0.002779	2.00	.0659	0.005558	359817615.45
1124427090	Capacitor	C228,C229,C284,C291	Bellcore Issue 6	Level I		0.001082	4.00	.0514	0.004330	923893937.98
1124410190	Capacitor	C244,C245,C249,C250	Bellcore Issue 6	Level I		0.001082	4.00	.0514	0.004330	923893937.98
1124501780	Capacitor	C306	Bellcore Issue 6	Level I		0.001082	1.00	.0128	0.001082	923893937.98
1124518280	Capacitor	C319	Bellcore Issue 6	Level I		0.001082	1.00	.0128	0.001082	923893937.98
1124556180	Capacitor	C322	Bellcore Issue 6	Level I		0.001082	1.00	.0128	0.001082	923893937.98
1301005443	Semiconductor	D1,D16,D2,D9	Bellcore Issue 6	Level I		0.026156	4.00	1.2410	0.104623	38232380.23
1301005442	Semiconductor	D15,D4	Bellcore Issue 6	Level I		0.026156	2.00	.6205	0.052312	38232380.23
1212306030	Inductor	FB1,FB11,FB14-FB19,FB2-FB4,FB7-FB8	Bellcore Issue 6	Level I		0.002413	13.00	.3721	0.031367	414447952.19
1651203291	Connection	FWH1	Bellcore Issue 6	Level I		0.021483	1.00	.2548	0.021483	46549188.74
1211106870	Inductor	L3	Bellcore Issue 6	Level I		0.091688	1.00	1.0875	0.091688	10906525.06
1211100102	Inductor	L4	Bellcore Issue 6	Level I		0.091688	1.00	1.0875	0.091688	10906525.06
1211103366	Inductor	L6	Bellcore Issue 6	Level I		0.091688	1.00	1.0875	0.091688	10906525.06
1211103366	Inductor	L8	Bellcore Issue 6	Level I	13.30	0.117063	1.00	1.3885	0.117063	8542388.85
1315030110	Semiconductor	Q10,Q11,Q24,Q3-Q6	Bellcore Issue 6	Level I		0.000000	7.00	.0000	0.000000	.00
1310390411	Semiconductor	Q7-Q9	Bellcore Issue 6	Level I		0.026156	3.00	.9307	0.078468	38232380.23
1540710084	Resistor	RP1,RP10,RP12-RP15,RP18,RP20-RP23,RP25,RP29,RP30,RP33,RP-36,RP38,RP4	Bellcore Issue 6	Level I		0.007219	16.00	1.3700	0.115502	138526122.25
1540710084	Resistor	RP40,RP41,RP43,RP7,RP9	Bellcore Issue 6	Level I		0.007219	5.00	.4281	0.036094	138526122.25
14S4070610	Integrated Circuit	U21	Bellcore Issue 6	Level I		0.074839	1.00	.8877	0.074839	13362097.61
14S5A00700	Integrated Circuit	U22	Bellcore Issue 6	Level I		0.045640	1.00	.5413	0.045640	21910757.01
1315441012	Semiconductor	U30,U32	Bellcore Issue 6	Level I		0.087186	2.00	2.0683	0.174372	11469714.07
1315992601	Semiconductor	U33	Bellcore Issue 6	Level I		0.174372	1.00	2.0683	0.174372	5734857.03
1315992601	Semiconductor	U35	Bellcore Issue 6	Level I	13.30	0.249518	1.00	2.9596	0.249518	4007734.10
14S4148500	Integrated Circuit	U34	Bellcore Issue 6	Level I		0.074839	1.00	.8877	0.074839	13362097.61
14S3033800	Integrated Circuit	U39	Bellcore Issue 6	Level I		0.074839	1.00	.8877	0.074839	13362097.61
1231314350	Miscellaneous	Y1	Bellcore Issue 6	Level I		0.150000	1.00	1.7792	0.150000	6666666.67
1231332721	Miscellaneous	Y2	Bellcore Issue 6	Level I		0.150000	1.00	1.7792	0.150000	6666666.67
1231324551	Miscellaneous	Y4	Bellcore Issue 6	Level I		0.050000	1.00	.5931	0.050000	20000000.00

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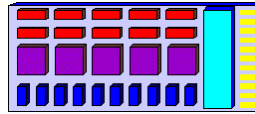


Description Top-level assembly
File Name 9697821000.RPJ
Time 3:35 下午
Failure Rate 8.430738
MTBF 118,614

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1129722060	Capacitor	C172,C173,C242,C344,C412,C87	Bellcore Issue 6	Level I		0.002779	6.00	.1978	0.016675	359817615.45
1122747880	Capacitor	C189	Bellcore Issue 6	Level I		0.001631	1.00	.0193	0.001631	613142443.04
1129710090	Capacitor	C191,C192,C230,C231,C331	Bellcore Issue 6	Level I		0.001082	5.00	.0642	0.005412	923893937.98
1129722091	Capacitor	C234,C235,C262,C266,C267	Bellcore Issue 6	Level I		0.001082	5.00	.0642	0.005412	923893937.98
1129710390	Capacitor	C255,C256,C261,C263,C389,C391	Bellcore Issue 6	Level I		0.001082	6.00	.0770	0.006494	923893937.98
1189922180	Capacitor	C308-C311,TC1,TC16,TC2-TC6	Bellcore Issue 6	Level I		0.004826	11.00	.6296	0.053083	207223976.10
1124522280	Capacitor	C318	Bellcore Issue 6	Level I		0.001082	1.00	.0128	0.001082	923893937.98
11C4515380	Capacitor	C321	Bellcore Issue 6	Level I		0.001082	1.00	.0128	0.001082	923893937.98
1124433190	Capacitor	C365	Bellcore Issue 6	Level I		0.001082	1.00	.0128	0.001082	923893937.98
1121722650	Capacitor	C411	Bellcore Issue 6	Level I		0.002592	1.00	.0307	0.002592	385791593.56
1301003440	Semiconductor	D3	Bellcore Issue 6	Level I		0.026156	1.00	.3102	0.026156	38232380.23
1301053040	Semiconductor	D10-D13	Bellcore Issue 6	Level I		0.026156	4.00	1.2410	0.104623	38232380.23
1653150221	Connection	ETX1-ETX4	Bellcore Issue 6	Level I		0.067133	4.00	3.1852	0.268533	14895740.40
1212306035	Inductor	FB10,FB5,FB6,FB9	Bellcore Issue 6	Level I		0.002413	4.00	.1145	0.009651	414447952.19
1211100160	Inductor	L1,L2	Bellcore Issue 6	Level I		0.091688	2.00	2.1751	0.183376	10906525.06
105A554923	Resistor	R294	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A506823	Resistor	R295,R318,R320	Bellcore Issue 6	Level I		0.002413	3.00	.0859	0.007239	414447952.19
105A545323	Resistor	R296	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A507533	Resistor	R299	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A535713	Resistor	R302	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A503033	Resistor	R319	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A705139	Resistor	R331	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A568123	Resistor	R348,R351	Bellcore Issue 6	Level I		0.002413	2.00	.0572	0.004826	414447952.19
105A517423	Resistor	R350	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A702263	Resistor	R363,R364,R376,R379,R385,R389	Bellcore Issue 6	Level I		0.002413	6.00	.1717	0.014477	414447952.19
105A500133	Resistor	R2,R369,R370,R454,R89,R90	Bellcore Issue 6	Level I		0.002413	6.00	.1717	0.014477	414447952.19
105A547523	Resistor	R377	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A701053	Resistor	R380	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
1129610051	Capacitor	C1,C10,C101,C109,C11,C116,C12-,C126,C127,C129,C13,C132,C133,-C14-C19,C196	Bellcore Issue 6	Level I		0.002779	20.00	.6593	0.055584	359817615.45

AAEON Reliability Prediction Report

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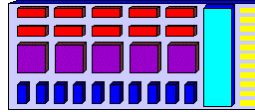


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1129610051	Capacitor	C20,C201,C21,C210,C217,C22,C23-C233,C24,C243,C247,C259,C280--C283,C288	Bellcore Issue 6	Level I		0.002779	17.00	.5604	0.047246	359817615.45
1129610051	Capacitor	C290,C294,C297,C3,C300,C303,C305,C312,C33,C350,C351,C357,C358,C363,C367	Bellcore Issue 6	Level I		0.002779	15.00	.4945	0.041688	359817615.45
1129610051	Capacitor	C373,C378,C381,C386,C39,C396,-C398,C402,C5,C7,C85,C86,C9,C93-CT1,CT17	Bellcore Issue 6	Level I		0.002779	16.00	.5274	0.044467	359817615.45
1129610051	Capacitor	TC18,TC19	Bellcore Issue 6	Level I		0.002779	2.00	.0659	0.005558	359817615.45
1121701790	Capacitor	C120,C124,C184,C186,C2,C221,C240,C393,C4,C404,C405,C6,C64,C66,C8	Bellcore Issue 6	Level I		0.002592	15.00	.4612	0.038881	385791593.56
1129701690	Capacitor	C100-C108,C110-C115,C117-C119-C121,C123,C125,C128,C130,C131-C134-C171	Bellcore Issue 6	Level I		0.002592	61.00	1.8755	0.158116	385791593.56
1129701690	Capacitor	C174-C183,C185,C197-C200,C202-C209,C211,C212,C214,C215,C218-C220,C222	Bellcore Issue 6	Level I		0.002592	31.00	.9531	0.080354	385791593.56
1129701690	Capacitor	C223,C225,C227,C232,C236-C239-C241,C248,C25,C26,C260,C27,C271-C279,C28	Bellcore Issue 6	Level I		0.002592	24.00	.7379	0.062210	385791593.56
1129701690	Capacitor	C285-C289,C29,C292,C293,C295,-C296,C298,C299,C30,C304,C307,-C31,C313,C314	Bellcore Issue 6	Level I		0.002592	17.00	.5227	0.044065	385791593.56
1129701690	Capacitor	C32,C324,C326-C330,C333-339,C34,C340-C342,C345-C347,C35,C36-C362,C364	Bellcore Issue 6	Level I		0.002592	25.00	.7686	0.064802	385791593.56
1129701690	Capacitor	C368,C369,C37,C371,C372,C374,-C375,C377,C38,C380,C384,C385,-C387,C388	Bellcore Issue 6	Level I		0.002592	14.00	.4304	0.036289	385791593.56
1129701690	Capacitor	C390,C395,C397,C399,C40,C401,-C403,C41,C410,C42,C43,C65,C67-C69,C71,C73	Bellcore Issue 6	Level I		0.002592	17.00	.5227	0.044065	385791593.56
1129701690	Capacitor	C74,C75,C77-C84,C88-C92,C94-C99	Bellcore Issue 6	Level I		0.002592	21.00	.6457	0.054434	385791593.56
1124427080	Capacitor	C44,C46	Bellcore Issue 6	Level I		0.001082	2.00	.0257	0.002165	923893937.98
14S4700900	Integrated Circuit	U13	Bellcore Issue 6	Level I		0.047334	1.00	.5614	0.047334	21126371.68
1315668011	Semiconductor	U14	Bellcore Issue 6	Level I	13.70	0.126051	1.00	1.4951	0.126051	7933267.39
1315668011	Semiconductor	U15	Bellcore Issue 6	Level I		0.087186	1.00	1.0341	0.087186	11469714.07

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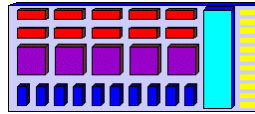


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Time 3:35 下午
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MTBF 118,614

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1315776010	Semiconductor	U17,U18,U36,U37	Bellcore Issue 6	Level I		0.087186	4.00	4.1366	0.348745	11469714.07
14S5900600	Integrated Circuit	U20	Bellcore Issue 6	Level I		0.081379	1.00	.9653	0.081379	12288227.18
1540782282	Resistor	RP45-RP50,RP53,RP55-RP77	Bellcore Issue 6	Level I		0.007219	30.00	2.5688	0.216566	138526122.25
1540710280	Resistor	RP78,RP79	Bellcore Issue 6	Level I		0.007219	2.00	.1713	0.014438	138526122.25
105A700139	Resistor	R100,R101,R108,R205,R208,R219-,R220,R242,R251,R312,R329,R337-,R338,R340	Bellcore Issue 6	Level I		0.002413	14.00	.4007	0.033780	414447952.19
105A700139	Resistor	R341,R393,R4,R40,R429,R430,R4-45,R51,R53,R60,R61,R99	Bellcore Issue 6	Level I		0.002413	12.00	.3434	0.028954	414447952.19
105A530003	Resistor	R8	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A515009	Resistor	R10,R186,R189,R413,R84,R85	Bellcore Issue 6	Level I		0.002413	6.00	.1717	0.014477	414447952.19
105A554963	Resistor	R13,R14,R17,R19	Bellcore Issue 6	Level I		0.002413	4.00	.1145	0.009651	414447952.19
105A578703	Resistor	R21	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A549969	Resistor	R30-R35,R76-R79	Bellcore Issue 6	Level I		0.002413	9.00	.2576	0.021716	414447952.19
105A501223	Resistor	R284	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A500333	Resistor	R285	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A520033	Resistor	R286	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A701009	Resistor	R131,R132,R137,R138,R141-R144-,R147,R148,R151,R152,R155,R156-,R160,R162	Bellcore Issue 6	Level I		0.002413	16.00	.4579	0.038606	414447952.19
105A701009	Resistor	R163,R164,R167,R168,R245,R282	Bellcore Issue 6	Level I		0.002413	6.00	.1717	0.014477	414447952.19
105A706203	Resistor	R176	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A568163	Resistor	R179	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A548703	Resistor	R184	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A704729	Resistor	R203,R215,R218,R243,R252,R264-,R307,R328,R332	Bellcore Issue 6	Level I		0.002413	9.00	.2576	0.021716	414447952.19
105A522663	Resistor	R212	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A507523	Resistor	R387	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A502833	Resistor	R390	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A502033	Resistor	R392,R399	Bellcore Issue 6	Level I		0.002413	2.00	.0572	0.004826	414447952.19
105A501133	Resistor	R396	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A512103	Resistor	R348	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
1189615190	Capacitor	EC1,EC2,TC10,TC14,TC7-TC9	Bellcore Issue 6	Level I		0.005249	7.00	.4358	0.036740	190528190.46
1189615190	Capacitor	TC15	Bellcore Issue 6	Level I	12.60	0.006619	1.00	.0785	0.006619	151081921.41

AAEON Reliability Prediction Report

Part Number 9697821000
Reference Des
Date 05. 23, 2005
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 28.20

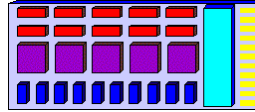


Description Top-level assembly
File Name 9697821000.RPJ
Time 3:35 下午
Failure Rate 8.430738
MTBF 118,614

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
14S4060000	Integrated Circuit	U1	Bellcore Issue 6	Level I	15.20	0.108839	1.00	1.2910	0.108839	9187848.83
14S4285201	Integrated Circuit	U3	Bellcore Issue 6	Level I	14.50	0.104930	1.00	1.2446	0.104930	9530202.43
14S4280106	Integrated Circuit	U4	Bellcore Issue 6	Level I	11.80	0.090981	1.00	1.0792	0.090981	10991353.05
14S4256200	Inductor	U9	Bellcore Issue 6	Level I	12.90	0.183539	1.00	2.1770	0.183539	5448435.62
14S3065500	Integrated Circuit	U11	Bellcore Issue 6	Level I		0.047334	1.00	.5614	0.047334	21126371.68
14S4621800	Integrated Circuit	U16	Bellcore Issue 6	Level I		0.074839	1.00	.8877	0.074839	13362097.61
14S4871201	Integrated Circuit	U19	Bellcore Issue 6	Level I	13.50	0.099558	1.00	1.1809	0.099558	10044359.81
1540722085	Resistor	RP52,RP54	Bellcore Issue 6	Level I		0.007219	2.00	.1713	0.014438	138526122.25
105A500233	Resistor	R3,R397,R398	Bellcore Issue 6	Level I		0.002413	3.00	.0859	0.007239	414447952.19
105A705609	Resistor	R133-R136,R139,R140,R145,R146- ,R149,R150,R153,R154,R157-R159- ,R16,R161	Bellcore Issue 6	Level I		0.002413	17.00	.4865	0.041018	414447952.19
105A705609	Resistor	R165,R166,R169,R170,R18,R20,R9	Bellcore Issue 6	Level I		0.002413	7.00	.2003	0.016890	414447952.19
105A527463	Resistor	R11,R15,R405,R75,R86,R87	Bellcore Issue 6	Level I		0.002413	6.00	.1717	0.014477	414447952.19
105A700003	Resistor	R22,R231-R234,R24-R26,R29,R372- ,R391,R394,R446	Bellcore Issue 6	Level I		0.002413	13.00	.3721	0.031367	414447952.19
105A510513	Resistor	R300	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
106B501031	Resistor	R326,R327	Bellcore Issue 6	Level I		0.013427	2.00	.3185	0.026853	74478701.99
105A512033	Resistor	R345	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A701003	Resistor	R362,R371,R373	Bellcore Issue 6	Level I		0.002413	3.00	.0859	0.007239	414447952.19
105A733009	Resistor	R221,R222,R244,R277-R279,R453	Bellcore Issue 6	Level I		0.002413	7.00	.2003	0.016890	414447952.19
105A561903	Resistor	R246	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A554903	Resistor	R247	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A507509	Resistor	R268,R269,R458-R460	Bellcore Issue 6	Level I		0.002413	5.00	.1431	0.012064	414447952.19
105A514003	Resistor	R272	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
14S3260100	Integrated Circuit	U2	Bellcore Issue 6	Level I	19.50	0.135789	1.00	1.6106	0.135789	7364379.54
14S3020100	Integrated Circuit	U8	Bellcore Issue 6	Level I		0.074839	1.00	.8877	0.074839	13362097.61
14S6334610	Integrated Circuit	U10	Bellcore Issue 6	Level I		0.038573	1.00	.4575	0.038573	25925017.34
105A502423	Resistor	R274,R367	Bellcore Issue 6	Level I		0.002413	2.00	.0572	0.004826	414447952.19
105A560403	Resistor	R102,R91	Bellcore Issue 6	Level I		0.002413	2.00	.0572	0.004826	414447952.19
105A710039	Resistor	R117,R214,R259,R260,R265,R283- ,R431,R437,R439,R442,R443,R95,- ,R97,R98	Bellcore Issue 6	Level I		0.002413	14.00	.4007	0.033780	414447952.19

AAEON Reliability Prediction Report

Part Number 9697821000
Reference Des
Date 05. 23, 2005
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 28.20



Description Top-level assembly
File Name 9697821000.RPJ
Time 3:35 下午
Failure Rate 8.430738
MTBF 118,614

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A501039	Resistor	R104,R280,R281,R292,R315-R317-R321-R325,R401,R402	Bellcore Issue 6	Level I		0.002413	14.00	.4007	0.033780	414447952.19
105A700009	Resistor	R109,R209,R211,R226,R227,R238-R241,R250,R287,R288,R306,R308-R313,R366	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A700009	Resistor	R382,R386,R415,R416,R419,R420-R433,R434,R444,R447,R448,R457	Bellcore Issue 6	Level I		0.002413	28.00	.8014	0.067560	414447952.19
105A700103	Resistor	R122-R124,R126-R130	Bellcore Issue 6	Level I		0.002413	8.00	.2290	0.019303	414447952.19
105A501033	Resistor	R171,R172	Bellcore Issue 6	Level I		0.002413	2.00	.0572	0.004826	414447952.19
105A701039	Resistor	R181,R183,R195,R198,R200,R248-R253-R256,R290,R301,R311,R314-R330,R378	Bellcore Issue 6	Level I		0.002413	16.00	.4579	0.038606	414447952.19
105A701039	Resistor	R388,R400,R403,R414	Bellcore Issue 6	Level I		0.002413	4.00	.1145	0.009651	414447952.19
105A513003	Resistor	R188	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A710053	Resistor	R216,R217,R45	Bellcore Issue 6	Level I		0.014477	3.00	.5152	0.043431	69074658.70
14S4362600	Integrated Circuit	U12	Bellcore Issue 6	Level I	14.50	0.104930	1.00	1.2446	0.104930	9530202.43
105A530103	Resistor	R82,R83	Bellcore Issue 6	Level I		0.002413	2.00	.0572	0.004826	414447952.19
105A503309	Resistor	R36-R39,R41-R44,R46,R48-R50,R52,R54,R56,R58,R59,R62-R65	Bellcore Issue 6	Level I		0.002413	21.00	.6010	0.050670	414447952.19
105A547503	Resistor	R66	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A703309	Resistor	R192,R193,R206,R207,R235,R236-R261,R262,R309,R68,R70	Bellcore Issue 6	Level I		0.002413	11.00	.3148	0.026541	414447952.19
105A524303	Resistor	R71	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19
105A510009	Resistor	R223-R225,R228,R229,R72,R74,R77,R80,R81,R93	Bellcore Issue 6	Level I		0.002413	11.00	.3148	0.026541	414447952.19
105A549963	Resistor	R73	Bellcore Issue 6	Level I		0.002413	1.00	.0286	0.002413	414447952.19