

APC-8122

Reliability Prediction Report (MTBF)

Report NO : 07P070007

7-25-2007

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** TF-APC-8122-A1

II . **Prediction Date:** July 25, 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-APC-8122-A1 :

Failure Rate: 16.253171 ppm

MTBF: 61,526 Hours

- LCD : 12" TOSHIBA. LTD121C30S. 800*600. 18 Bits TTL

MTTF: 50,000 h (This is not assurance time but interference value by following conditions.)

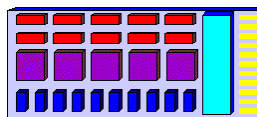
- Touch Screen : 12.1". 8 Wire. AMT. 98966

Touch panel is hit 10 millions times with a silicone rubber of R8 finger, hitting rate is by 250g at 2 times per second.

- Power supply : SPS. ATX. 100-240V. 250W. AC with PFC.SPI. FSP250-50PLB
MTBF : The power supply have a minimum predicted MTBF of 100,000 hours of continues operation at 25 ° C, maximum-output load, and nominal AC input voltage.

AAEON Reliability Prediction Report

Part Number TF-APC-8122HTT-A1
Reference Des
Date 07. 25, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name TF-APC-8122HTT-A1.RPJ
Time 4:07 PM
Failure Rate 16.253171
MTBF 61,526

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
APC-8122	TF-APC-8122HTT-A1	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	16.253171	61,526
12541QF630	DC-AC Inverter	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	0.802833	1,245,589
PCM-8500	969785000U	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	12.108370	82,588
ASS'Y I/O Board Y009	9697Y00902	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	3.088716	323,759
ASS'Y Riser Card	9697110502	Bellcore	Method I Case 3	GF, GU - Ground Fixed,		1.00	0.253252	3,948,639

AAEON Reliability Prediction Report

Part Number 969785000U
Reference Des
Date 07. 25, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

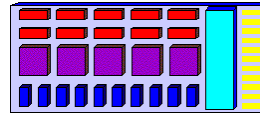


Description
File Name TF-APC-8122HTT-A1.RPJ
Time 4:07 PM
Failure Rate 12.108370
MTBF 82,588

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1652508204	Connection	CN11	Bellcore Issue 6	Level I		0.022759	1.00	.1880	0.022759	43939013.54
1653002101	Connection	JP6	Bellcore Issue 6	Level I		0.001138	1.00	.0094	0.001138	878780270.71
1653003100	Connection	JP1	Bellcore Issue 6	Level I		0.001707	1.00	.0141	0.001707	585853513.81
1653003101	Connection	JP7	Bellcore Issue 6	Level I		0.001707	1.00	.0141	0.001707	585853513.81
1653003201	Connection	CN10,JP3,JP4*2,JP5	Bellcore Issue 6	Level I		0.003414	5.00	.1410	0.017069	292926756.90
1653004201	Connection	CN19	Bellcore Issue 6	Level I		0.004552	1.00	.0376	0.004552	219695067.68
1653004205	Connection	CN17	Bellcore Issue 6	Level I		0.004552	1.00	.0376	0.004552	219695067.68
1653005200	Connection	CN25	Bellcore Issue 6	Level I		0.005690	1.00	.0470	0.005690	175756054.14
1653005201	Connection	CN3-CN5	Bellcore Issue 6	Level I		0.005690	3.00	.1410	0.017069	175756054.14
1653006100	Connection	CN15	Bellcore Issue 6	Level I		0.003414	1.00	.0282	0.003414	292926756.90
1653007201	Connection	CN6,CN7	Bellcore Issue 6	Level I		0.007966	2.00	.1316	0.015931	125540038.67
1653208200	Connection	CN22	Bellcore Issue 6	Level I		0.009104	1.00	.0752	0.009104	109847533.84
1653213201	Connection	CN14	Bellcore Issue 6	Level I		0.014793	1.00	.1222	0.014793	67598482.36
1653217202	Connection	CN13	Bellcore Issue 6	Level I		0.019345	1.00	.1598	0.019345	51692957.10
1653220203	Connection	CN16	Bellcore Issue 6	Level I		0.022759	1.00	.1880	0.022759	43939013.54
1655305020	Connection	CN12	Bellcore Issue 6	Level I		0.022759	1.00	.1880	0.022759	43939013.54
1655420020	Connection	CN27	Bellcore Issue 6	Level I		0.011379	1.00	.0940	0.011379	87878027.07
1655003010	Connection	CN24,CN8	Bellcore Issue 6	Level I		0.022759	2.00	.3759	0.045518	43939013.54
1653220208	Connection	CN1	Bellcore Issue 6	Level I		0.022759	1.00	.1880	0.022759	43939013.54
1655404020	Connection	CN28	Bellcore Issue 6	Level I		0.022759	1.00	.1880	0.022759	43939013.54
1653210203	Connection	CN20	Bellcore Issue 6	Level I		0.011379	1.00	.0940	0.011379	87878027.07
1653209200	Connection	CN21	Bellcore Issue 6	Level I		0.010241	1.00	.0846	0.010241	97642252.30
1750220323	Connection	BT1	Bellcore Issue 6	Level I		0.001138	1.00	.0094	0.001138	878780270.71
1119622195	Capacitor	EC1,EC12,EC14-EC16,EC2	Bellcore Issue 6	Level I		0.042673	6.00	2.1145	0.256037	23434140.55
1211100661	Inductor	L88	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
1111610212	Capacitor	EC8	Bellcore Issue 6	Level I		0.071121	1.00	.5874	0.071121	14060484.33
1651592492	Connection	DIMM1	Bellcore Issue 6	Level I		0.104691	1.00	.8646	0.104691	9551959.46
1654260207	Connection	PCI1	Bellcore Issue 6	Level I		0.068276	1.00	.5639	0.068276	14646337.85
105A500233	Resistor	R240,R245,R396	Bellcore Issue 6	Level I		0.002268	3.00	.0562	0.006803	440974090.03
105A512103	Resistor	R342	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A700003	Resistor	L109,R395,R401,R588	Bellcore Issue 6	Level I		0.002268	4.00	.0749	0.009071	440974090.03

AAEON Reliability Prediction Report

Part Number 969785000U
Reference Des
Date 07. 25, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-APC-8122HTT-A1.RPJ
Time 4:07 PM
Failure Rate 12.108370
MTBF 82,588

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A702203	Resistor	R206,R409,R454	Bellcore Issue 6	Level I		0.002268	3.00	.0562	0.006803	440974090.03
105A702223	Resistor	R339	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A704703	Resistor	R236,R515,R516	Bellcore Issue 6	Level I		0.002268	3.00	.0562	0.006803	440974090.03
105A710053	Resistor	R210,R211,R363	Bellcore Issue 6	Level I		0.013606	3.00	.3371	0.040819	73495681.67
105A503033	Resistor	R248,R257,R460	Bellcore Issue 6	Level I		0.002268	3.00	.0562	0.006803	440974090.03
105A510003	Resistor	L37,L39	Bellcore Issue 6	Level I		0.002268	2.00	.0375	0.004535	440974090.03
105A511503	Resistor	R408,R412	Bellcore Issue 6	Level I		0.002268	2.00	.0375	0.004535	440974090.03
105A515003	Resistor	R13,R19,R360,R45,R9	Bellcore Issue 6	Level I		0.002268	5.00	.0936	0.011339	440974090.03
105A554903	Resistor	R336	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A556003	Resistor	R407,R411	Bellcore Issue 6	Level I		0.002268	2.00	.0375	0.004535	440974090.03
105A561903	Resistor	R335	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A701523	Resistor	R56	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A704733	Resistor	R472,R473,R477	Bellcore Issue 6	Level I		0.002268	3.00	.0562	0.006803	440974090.03
1059704761	Resistor	R377,R402	Bellcore Issue 6	Level I		0.002268	2.00	.0375	0.004535	440974090.03
105A514003	Resistor	R421	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A501003	Resistor	R235	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A504723	Resistor	R455	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
1231332721	Miscellaneous	Y2	Bellcore Issue 6	Level I		0.150000	1.00	1.2388	0.150000	6666666.67
1121722650	Capacitor	C210,C488-C490	Bellcore Issue 6	Level I		0.004535	4.00	.1498	0.018142	220487045.01
1122722780	Capacitor	C553,C558	Bellcore Issue 6	Level I		0.004535	2.00	.0749	0.009071	220487045.01
1122747880	Capacitor	C211,C287	Bellcore Issue 6	Level I		0.004535	2.00	.0749	0.009071	220487045.01
1124522180	Capacitor	C37	Bellcore Issue 6	Level I		0.004535	1.00	.0375	0.004535	220487045.01
1129701080	Capacitor	C209,C238,C278,C280,C284,C286-C288,C289,C294,C295,C302,C304-C305,C309	Bellcore Issue 6	Level I		0.004535	14.00	.5244	0.063496	220487045.01
1129701080	Capacitor	C311,C314,C316,C317,C320,C321-C326,C38,C417,C457,C497,C499,-C501,C505	Bellcore Issue 6	Level I		0.004535	14.00	.5244	0.063496	220487045.01
1129701080	Capacitor	C629,C630,C634,C647	Bellcore Issue 6	Level I		0.004535	4.00	.1498	0.018142	220487045.01
1129747650	Capacitor	C130,C132,C179-C181,C246,C369-C45,C623,C625	Bellcore Issue 6	Level I		0.004535	10.00	.3746	0.045354	220487045.01
1301005440	Semiconductor	D1,D15,D22	Bellcore Issue 6	Level I		0.023881	3.00	.5917	0.071643	41874327.58
1540722280	Resistor	RN48	Bellcore Issue 6	Level I		0.006246	1.00	.0516	0.006246	160102772.00

AAEON Reliability Prediction Report

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Date 07. 25, 2007
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Temp. (°C) 25.00



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Time 4:07 PM
Failure Rate 12.108370
MTBF 82,588

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1174510180	Capacitor	CP1,CP10-CP14,CP2-CP9	Bellcore Issue 6	Level I		0.005466	14.00	.6319	0.076519	182961702.19
1301005441	Semiconductor	D16-D18	Bellcore Issue 6	Level I		0.023881	3.00	.5917	0.071643	41874327.58
1310390410	Semiconductor	Q1,Q10,Q32,Q4-Q7	Bellcore Issue 6	Level I		0.023881	7.00	1.3806	0.167167	41874327.58
1314108312	Integrated Circuit	Q17	Bellcore Issue 6	Level I		0.059366	1.00	.4903	0.059366	16844654.92
14S1488000	Integrated Circuit	U12	Bellcore Issue 6	Level I		0.059366	1.00	.4903	0.059366	16844654.92
1124556280	Capacitor	C461,C649	Bellcore Issue 6	Level I		0.004535	2.00	.0749	0.009071	220487045.01
14S4048500	Integrated Circuit	U22,U24	Bellcore Issue 6	Level I		0.059366	2.00	.9806	0.118732	16844654.92
14S4070610	Integrated Circuit	U42	Bellcore Issue 6	Level I		0.059366	1.00	.4903	0.059366	16844654.92
1651203291	Connection	U10	Bellcore Issue 6	Level I		0.018207	1.00	.1504	0.018207	54923766.92
14S5900600	Integrated Circuit	U39	Bellcore Issue 6	Level I		0.039296	1.00	.3245	0.039296	25448028.36
1653003202	Connection	JP2	Bellcore Issue 6	Level I		0.003414	1.00	.0282	0.003414	292926756.90
1653005202	Connection	CN18,CN26	Bellcore Issue 6	Level I		0.005690	2.00	.0940	0.011379	175756054.14
14S6334610	Integrated Circuit	U16	Bellcore Issue 6	Level I		0.030598	1.00	.2527	0.030598	32681842.61
1301005442	Semiconductor	D19,D20	Bellcore Issue 6	Level I		0.023881	2.00	.3945	0.047762	41874327.58
14S4021310	Integrated Circuit	U20,U21,U26,U27	Bellcore Issue 6	Level I		0.059366	4.00	1.9612	0.237464	16844654.92
1129610260	Capacitor	C378	Bellcore Issue 6	Level I		0.004535	1.00	.0375	0.004535	220487045.01
14S5A01400	Integrated Circuit	U23,U40,U41	Bellcore Issue 6	Level I		0.059366	3.00	1.4709	0.178098	16844654.92
14S4650100	Integrated Circuit	U31	Bellcore Issue 6	Level I		0.059366	1.00	.4903	0.059366	16844654.92
14S5A00700	Integrated Circuit	U9	Bellcore Issue 6	Level I		0.037889	1.00	.3129	0.037889	26392869.26
14S4256200	Inductor	U15	Bellcore Issue 6	Level I		0.136062	1.00	1.1237	0.136062	7349568.17
105A530003	Resistor	R10,R221	Bellcore Issue 6	Level I		0.002268	2.00	.0375	0.004535	440974090.03
105A505633	Resistor	R469,R470	Bellcore Issue 6	Level I		0.002268	2.00	.0375	0.004535	440974090.03
105A512033	Resistor	R462	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A523233	Resistor	R461	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
1315065100	Semiconductor	Q19	Bellcore Issue 6	Level I		0.079603	1.00	.6574	0.079603	12562298.27
1211104760	Inductor	L1,L2	Bellcore Issue 6	Level I		0.086173	2.00	1.4234	0.172346	11604581.32
1121547661	Capacitor	C494	Bellcore Issue 6	Level I		0.004535	1.00	.0375	0.004535	220487045.01
105A560463	Resistor	R37,R38,R41,R42	Bellcore Issue 6	Level I		0.002268	4.00	.0749	0.009071	440974090.03
14S3020100	Integrated Circuit	U36	Bellcore Issue 6	Level I		0.059366	1.00	.4903	0.059366	16844654.92
105A540263	Resistor	R33	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A530103	Resistor	R44	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03

AAEON Reliability Prediction Report

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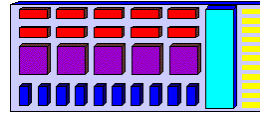


Description
File Name TF-APC-8122HTT-A1.RPJ
Time 4:07 PM
Failure Rate 12.108370
MTBF 82,588

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A539263	Resistor	R17	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A527463	Resistor	R27	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
1122501780	Capacitor	C650-C652	Bellcore Issue 6	Level I		0.004535	3.00	.1124	0.013606	220487045.01
1540710084	Resistor	RN11,RN13,RN14,RN16,RN18,RN-20,RN22,RN24,RN26,RN28,RN30,-RN31,RN34,RN35	Bellcore Issue 6	Level I		0.006246	14.00	.7222	0.087444	160102772.00
1540710084	Resistor	RN44-RN47,RN6,RN8	Bellcore Issue 6	Level I		0.006246	6.00	.3095	0.037476	160102772.00
1540733181	Resistor	RN43	Bellcore Issue 6	Level I		0.006246	1.00	.0516	0.006246	160102772.00
105A700103	Resistor	R31,R35	Bellcore Issue 6	Level I		0.002268	2.00	.0375	0.004535	440974090.03
105A568163	Resistor	R158,R43	Bellcore Issue 6	Level I		0.002268	2.00	.0375	0.004535	440974090.03
105A702423	Resistor	R423	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A506823	Resistor	R459,R463	Bellcore Issue 6	Level I		0.002268	2.00	.0375	0.004535	440974090.03
105A708229	Resistor	R157,R160-R166,R169-R182,R185-,R186,R189,R190,R192,R195,R199-,R203,R214	Bellcore Issue 6	Level I		0.002268	31.00	.5806	0.070299	440974090.03
105A708229	Resistor	R216-R218,R30,R34,R425-R428,R-430-R432,R555,R634	Bellcore Issue 6	Level I		0.002268	14.00	.2622	0.031748	440974090.03
105A703309	Resistor	R101,R102,R213,R237,R436,R437-,R51,R52,R71-R73,R77-R81,R83,R-84,R94,R97	Bellcore Issue 6	Level I		0.002268	20.00	.3746	0.045354	440974090.03
105A701009	Resistor	R104,R106,R113,R114,R121,R122-,R131,R132,R135,R136,R139,R140-,R333,R365	Bellcore Issue 6	Level I		0.002268	14.00	.2622	0.031748	440974090.03
105A701009	Resistor	R525-R527,R529,R53,R530,R533-,R537,R54,R584,R69,R90,R92,R95-,R98	Bellcore Issue 6	Level I		0.002268	15.00	.2809	0.034016	440974090.03
105A702239	Resistor	R535,R538,R546	Bellcore Issue 6	Level I		0.002268	3.00	.0562	0.006803	440974090.03
105A702229	Resistor	R262	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
1129710090	Capacitor	C118,C213,C214,C554,C556,C560-,C562,C563,C575,C578	Bellcore Issue 6	Level I		0.004535	10.00	.3746	0.045354	220487045.01
1129722091	Capacitor	C374,C375,C522,C523,C555,C559	Bellcore Issue 6	Level I		0.004535	6.00	.2247	0.027212	220487045.01
1129710390	Capacitor	C253,C257,C262,C272-C277,C322-,C327	Bellcore Issue 6	Level I		0.004535	11.00	.4120	0.049890	220487045.01
1129701790	Capacitor	C244,C269,C296,C576,C279,C63,-C68,C69,C72,C73	Bellcore Issue 6	Level I		0.004535	10.00	.3746	0.045354	220487045.01
1129747090	Capacitor	C565-C570	Bellcore Issue 6	Level I		0.004535	6.00	.2247	0.027212	220487045.01
105A702263	Resistor	R381,R394,R403,R646,R647,R648	Bellcore Issue 6	Level I		0.002268	6.00	.1124	0.013606	440974090.03

AAEON Reliability Prediction Report

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Reference Des
Date 07. 25, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

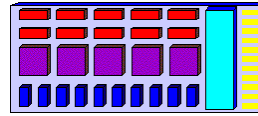


Description
File Name TF-APC-8122HTT-A1.RPJ
Time 4:07 PM
Failure Rate 12.108370
MTBF 82,588

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1124547190	Capacitor	C258,C263,C292,C293,C297,C298-,C300,C301,C303,C306-C308,C315-,C318,C319	Bellcore Issue 6	Level I		0.004535	15.00	.5619	0.068031	220487045.01
1124547190	Capacitor	C323,C325,C328,C577	Bellcore Issue 6	Level I		0.004535	4.00	.1498	0.018142	220487045.01
105A549969	Resistor	R143,R144,R49,R57-R62,R8	Bellcore Issue 6	Level I		0.002268	10.00	.1873	0.022677	440974090.03
14S4701700	Integrated Circuit	U35	Bellcore Issue 6	Level I		0.039296	1.00	.3245	0.039296	25448028.36
1124410190	Capacitor	C299,C390,C519,C525,C529,C533	Bellcore Issue 6	Level I		0.004535	6.00	.2247	0.027212	220487045.01
105A705609	Resistor	R1,R100,R103,R105,R107-R112,R-115,R116,R123-R130,R133,R134,-R137,R138,R141	Bellcore Issue 6	Level I		0.002268	25.00	.4682	0.056693	440974090.03
105A705609	Resistor	R142,R582,R89,R91,R93,R96,R99	Bellcore Issue 6	Level I		0.002268	7.00	.1311	0.015874	440974090.03
1189922180	Capacitor	C464-C469,C49,C53,C646	Bellcore Issue 6	Level I		0.004535	9.00	.3371	0.040819	220487045.01
105A510009	Resistor	R11,R341,R47,R48,R482,R50,R545	Bellcore Issue 6	Level I		0.002268	7.00	.1311	0.015874	440974090.03
105A527469	Resistor	R63-R68	Bellcore Issue 6	Level I		0.002268	6.00	.1124	0.013606	440974090.03
105A706809	Resistor	R147-R150,R152-R156	Bellcore Issue 6	Level I		0.002268	9.00	.1686	0.020409	440974090.03
105A702729	Resistor	R183,R187,R198,R201,R249,R253	Bellcore Issue 6	Level I		0.002268	6.00	.1124	0.013606	440974090.03
1540756081	Resistor	RN1,RN10,RN12,RN15,RN17,RN19-,RN2,RN21,RN23,RN25,RN27,RN2-9,RN3,RN32	Bellcore Issue 6	Level I		0.006246	1.00	.0516	0.006246	160102772.00
1540756081	Resistor	RN33,RN36,RN37,RN4,RN5,RN7,-RN9	Bellcore Issue 6	Level I		0.006246	21.00	1.0833	0.131166	160102772.00
1124527190	Capacitor	C282,C283,C518,C524,C530	Bellcore Issue 6	Level I		0.004535	5.00	.1873	0.022677	220487045.01
1189615187	Capacitor	C204,C205,C43,C44,C495,C498,C-500,C504,C644	Bellcore Issue 6	Level I		0.004535	9.00	.3371	0.040819	220487045.01
1129610051	Capacitor	C1,C10,C101,C102,C104,C11-C20-,C2,C200-C203,C21-C24,C241,C25-,C26,C265	Bellcore Issue 6	Level I		0.004535	28.00	1.0488	0.126992	220487045.01
1129610051	Capacitor	C267,C27-C31,C3,C310,C312,C32-,C36,C364,C383,C4,C472-C476,C4-79-C483,C496	Bellcore Issue 6	Level I		0.004535	28.00	1.0488	0.126992	220487045.01
1129610051	Capacitor	C5,C502,C503,C507,C508,C516,C-527,C531,C536,C539,C540,C542,C-545,C550,C551	Bellcore Issue 6	Level I		0.004535	15.00	.5619	0.068031	220487045.01
1129610051	Capacitor	C6,C631,C640,C648,C7,C8,C81,C-82,C9,C91,C92,EC4	Bellcore Issue 6	Level I		0.004535	12.00	.4495	0.054425	220487045.01
14S4284505	Integrated Circuit	U2	Bellcore Issue 6	Level I		0.039296	1.00	.3245	0.039296	25448028.36
14S4280106	Integrated Circuit	U8	Bellcore Issue 6	Level I		0.039296	1.00	.3245	0.039296	25448028.36

AAEON Reliability Prediction Report

Part Number 969785000U
Reference Des
Date 07. 25, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-APC-8122HTT-A1.RPJ
Time 4:07 PM
Failure Rate 12.108370
MTBF 82,588

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1315700310	Semiconductor	Q12,Q14,Q16	Bellcore Issue 6	Level I		0.079603	3.00	1.9723	0.238810	12562298.27
1315600311	Semiconductor	Q11,Q13,Q15	Bellcore Issue 6	Level I		0.079603	3.00	1.9723	0.238810	12562298.27
121230603M	Inductor	L104-L108	Bellcore Issue 6	Level I		0.002268	5.00	.0936	0.011339	440974090.03
1315231310	Semiconductor	Q21	Bellcore Issue 6	Level I		0.079603	1.00	.6574	0.079603	12562298.27
1314512510	Integrated Circuit	U33	Bellcore Issue 6	Level I		0.059366	1.00	.4903	0.059366	16844654.92
14S2533100	Integrated Circuit	Q35	Bellcore Issue 6			0.059366	1.00	.4903	0.059366	16844654.92
14S4871203	Integrated Circuit	U18,U25	Bellcore Issue 6	Level I		0.039296	2.00	.6491	0.078592	25448028.36
1315993311	Semiconductor	Q31	Bellcore Issue 6	Level I		0.159207	1.00	1.3148	0.159207	6281149.14
1213906008	Inductor	NL1-NL9	Bellcore Issue 6	Level I		0.002268	9.00	.1686	0.020409	440974090.03
121230603S	Inductor	L110,L111,L24-L30,L66	Bellcore Issue 6	Level I		0.002268	10.00	.1873	0.022677	440974090.03
121230603U	Inductor	L31-L36,L38,L43,L53	Bellcore Issue 6	Level I		0.002268	9.00	.1686	0.020409	440974090.03
121230805X	Inductor	L10,L100-L103,L11,L12,L14,L17,L1-8,L21-L23,L41,L42,L44,L67,L7,L8,L-21-L23,L41,L42	Bellcore Issue 6	Level I		0.002268	15.00	.2809	0.034016	440974090.03
121230805X	Inductor	L44,L67,L7,L8,L84,L89,L6,L90-L99	Bellcore Issue 6	Level I		0.002268	17.00	.3184	0.038551	440974090.03
1314108610	Integrated Circuit	Q20	Bellcore Issue 6	Level I		0.059366	1.00	.4903	0.059366	16844654.92
123131435B	Miscellaneous	Y1,Y5	Bellcore Issue 6	Level I		0.150000	2.00	2.4776	0.300000	6666666.67
1231325058	Miscellaneous	Y4	Bellcore Issue 6	Level I		0.150000	1.00	1.2388	0.150000	6666666.67
14S3110300	Integrated Circuit	U17	Bellcore Issue 6	Level I		0.059366	1.00	.4903	0.059366	16844654.92
1315731310	Semiconductor	U32	Bellcore Issue 6	Level I		0.079603	1.00	.6574	0.079603	12562298.27
14S3128421	Integrated Circuit	U19	Bellcore Issue 6	Level I		0.059366	1.00	.4903	0.059366	16844654.92
1300581940	Semiconductor	D2	Bellcore Issue 6	Level I		0.023881	1.00	.1972	0.023881	41874327.58
105A501033	Resistor	R627	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A701533	Resistor	R254,R255	Bellcore Issue 6	Level I		0.002268	2.00	.0375	0.004535	440974090.03
105A548713	Resistor	R386-R389	Bellcore Issue 6	Level I		0.002268	4.00	.0749	0.009071	440974090.03
1124510280	Capacitor	C654	Bellcore Issue 6	Level I		0.004535	1.00	.0375	0.004535	220487045.01
14S5812500	Integrated Circuit	U43,U46	Bellcore Issue 6	Level I		0.039296	2.00	.6491	0.078592	25448028.36
105A704729	Resistor	R146,R193,R194,R215,R238,R239-,R242,R243,R246,R247,R251,R252-,R258-R261	Bellcore Issue 6	Level I		0.002268	16.00	.2997	0.036283	440974090.03
105A704729	Resistor	R265,R268,R349-R353,R356,R359-,R361,R366-R370,R373,R379,R434-,R450,R451	Bellcore Issue 6	Level I		0.002268	20.00	.3746	0.045354	440974090.03

AAEON Reliability Prediction Report

Part Number 969785000U
Reference Des
Date 07. 25, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

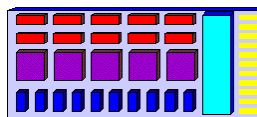


Description
File Name TF-APC-8122HTT-A1.RPJ
Time 4:07 PM
Failure Rate 12.108370
MTBF 82,588

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A704729	Resistor	R474,R475,R480,R484,R488,R490-,R496,R540,R542,R567,R574-R577-,R602,R611	Bellcore Issue 6	Level I		0.002268	16.00	.2997	0.036283	440974090.03
105A704729	Resistor	R612-R614,R626,R642,R643	Bellcore Issue 6	Level I		0.002268	6.00	.1124	0.013606	440974090.03
105A700009	Resistor	R207,R23,R29,R3,R347,R354,R358-,R362,R371,R444,R445,R447,R448-,R466,R589	Bellcore Issue 6	Level I		0.002268	15.00	.2809	0.034016	440974090.03
105A700009	Resistor	R590-R601,R604,R617,R628,R650-,R654	Bellcore Issue 6	Level I		0.002268	17.00	.3184	0.038551	440974090.03
105A733009	Resistor	R204,R28,R364,R435,R483,R655,-R82	Bellcore Issue 6	Level I		0.002268	7.00	.1311	0.015874	440974090.03
1540782282	Resistor	RN38-RN42,RN49-RN52	Bellcore Issue 6	Level I		0.006246	9.00	.4643	0.056214	160102772.00
1129701690	Capacitor	C100,C103,C105-C111,C119,C131-,C133-C178,C182-C199,C206,C218-,C234,C237	Bellcore Issue 6	Level I		0.004535	94.00	3.5209	0.426329	220487045.01
1129701690	Capacitor	C239,C240,C242,C243,C245,C247-,C248,C251,C252,C255,C256,C260-,C261,C264	Bellcore Issue 6	Level I		0.004535	14.00	.5244	0.063496	220487045.01
1129701690	Capacitor	C266,C268,C270,C279,C281,C285-,C290,C313,C365-C368,C370-C372-,C377,C379	Bellcore Issue 6	Level I		0.004535	17.00	.6368	0.077102	220487045.01
1129701690	Capacitor	C380-C382,C384-C387,C39,C391--C396,C405-C408,C418-C422,C42-,C425-C428	Bellcore Issue 6	Level I		0.004535	28.00	1.0488	0.126992	220487045.01
1129701690	Capacitor	C437-C440,C449-C456,C46-C48,C491-C493,C506,C510,C511,C517-,C52,C520	Bellcore Issue 6	Level I		0.004535	24.00	.8990	0.108850	220487045.01
1129701690	Capacitor	C528,C532,C534,C535,C537,C538-,C54,C541,C543,C544,C546-C549-,C55,C552	Bellcore Issue 6	Level I		0.004535	16.00	.5993	0.072567	220487045.01
1129701690	Capacitor	C557,C56,C561,C564,C57,C571,C572,C58,C580-C583,C60,C61,C618-,C620,C62	Bellcore Issue 6	Level I		0.004535	18.00	.6742	0.081637	220487045.01
1129701690	Capacitor	C622,C624,C626-C628,C635-C637-,C639,C64,C642,C645,C65,C653,C656,C66,C67	Bellcore Issue 6	Level I		0.004535	17.00	.6368	0.077102	220487045.01
1129701690	Capacitor	C70,C71,C74-C80,C83-C90,C93-C99	Bellcore Issue 6	Level I		0.004535	24.00	.8990	0.108850	220487045.01
1315970110	Semiconductor	F4,F5	Bellcore Issue 6	Level I		0.079603	2.00	1.3148	0.159207	12562298.27
105A710039	Resistor	R241,R244,R270,R652	Bellcore Issue 6	Level I		0.002268	4.00	.0749	0.009071	440974090.03

AAEON Reliability Prediction Report

Part Number 9697Y00902
Reference Des
Date 07. 25, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-APC-8122HTT-A1.RPJ
Time 4:07 PM
Failure Rate 3.088716
MTBF 323,759

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1112610190	Capacitor	C19	Bellcore Issue 6	Level I		0.042673	1.00	1.3816	0.042673	23434140.55
1653002101	Connection	J5,JP5,JP6	Bellcore Issue 6	Level I		0.001138	3.00	.1105	0.003414	878780270.71
1653003100	Connection	JP1-JP3	Bellcore Issue 6	Level I		0.001707	3.00	.1658	0.005121	585853513.81
1653003101	Connection	CN2,JP4	Bellcore Issue 6	Level I		0.001707	2.00	.1105	0.003414	585853513.81
1653004200	Connection	CN24	Bellcore Issue 6	Level I		0.004552	1.00	.1474	0.004552	219695067.68
1655003000	Connection	CN26	Bellcore Issue 6	Level I		0.022759	1.00	.7368	0.022759	43939013.54
1653213220	Connection	CN22	Bellcore Issue 6	Level I		0.014793	1.00	.4789	0.014793	67598482.36
1653008201	Connection	CN27	Bellcore Issue 6	Level I		0.009104	1.00	.2947	0.009104	109847533.84
1655308021	Connection	J3,J4	Bellcore Issue 6	Level I		0.022759	2.00	1.4737	0.045518	43939013.54
1654612304	Connection	PT1	Bellcore Issue 6	Level I		0.022759	1.00	.7368	0.022759	43939013.54
1654543500	Connection	CN10,CN13,CN9	Bellcore Issue 6	Level I		0.024466	3.00	2.3763	0.073397	40873500.96
1654808304	Connection	USB1,USB2	Bellcore Issue 6	Level I		0.004552	2.00	.2947	0.009104	219695067.68
1653900034	Connection	CON1	Bellcore Issue 6	Level I		0.001138	1.00	.0368	0.001138	878780270.71
1656304022	Connection	J2	Bellcore Issue 6	Level I		0.002276	1.00	.0737	0.002276	439390135.35
1112647100	Capacitor	C18	Bellcore Issue 6	Level I		0.071121	1.00	2.3026	0.071121	14060484.33
1652508201	Connection	CN17,CN18	Bellcore Issue 6	Level I		0.004552	2.00	.2947	0.009104	219695067.68
1653915200	Connection	PHONE1	Bellcore Issue 6	Level I		0.008535	1.00	.2763	0.008535	117170702.76
1653205208	Connection	CN28	Bellcore Issue 6	Level I		0.005690	1.00	.1842	0.005690	175756054.14
1654425500	Connection	PT2	Bellcore Issue 6	Level I		0.014224	1.00	.4605	0.014224	70302421.66
1654515309	Connection	PT2	Bellcore Issue 6	Level I		0.008535	1.00	.2763	0.008535	117170702.76
1653204204	Connection	CN1	Bellcore Issue 6	Level I		0.004552	1.00	.1474	0.004552	219695067.68
1653208209	Connection	CN7	Bellcore Issue 6	Level I		0.009104	1.00	.2947	0.009104	109847533.84
165321320B	Connection	CN6	Bellcore Issue 6	Level I		0.014793	1.00	.4789	0.014793	67598482.36
1654903300	Connection	CN16	Bellcore Issue 6	Level I		0.022759	1.00	.7368	0.022759	43939013.54
1231316053	Miscellaneous	Y1	Bellcore Issue 6	Level I		0.150000	1.00	4.8564	0.150000	6666666.67
165322020G	Connection	CN20	Bellcore Issue 6	Level I		0.022759	1.00	.7368	0.022759	43939013.54
165321720E	Connection	CN19	Bellcore Issue 6	Level I		0.019345	1.00	.6263	0.019345	51692957.10
1601632R02	Connection	S1	Bellcore Issue 6	Level I		0.022759	1.00	.7368	0.022759	43939013.54
165440910E	Connection	PT2	Bellcore Issue 6	Level I		0.005121	1.00	.1658	0.005121	195284504.60
1653210222	Connection	CN29	Bellcore Issue 6	Level I		0.011379	1.00	.3684	0.011379	87878027.07
105A500233	Resistor	R18,R21,R25,R29,R30,R32	Bellcore Issue 6	Level I		0.002268	6.00	.4405	0.013606	440974090.03

AAEON Reliability Prediction Report

Part Number 9697Y00902
Reference Des
Date 07. 25, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-APC-8122HTT-A1.RPJ
Time 4:07 PM
Failure Rate 3.088716
MTBF 323,759

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A700003	Resistor	L10,L11,L13,L14,L17,L19-L29,L5-L7-,L9,R12,R13,R24,R73,R74	Bellcore Issue 6	Level I		0.002268	25.00	1.8355	0.056693	440974090.03
105A701053	Resistor	R46,R64,R65,R68,R71	Bellcore Issue 6	Level I		0.002268	5.00	.3671	0.011339	440974090.03
105A703323	Resistor	R3	Bellcore Issue 6	Level I		0.002268	1.00	.0734	0.002268	440974090.03
105A733003	Resistor	R36-R38,R41	Bellcore Issue 6	Level I		0.002268	4.00	.2937	0.009071	440974090.03
105A701033	Resistor	R1,R10,R14,R15,R19,R20,R27,R28-,R52,R59-R63,R7,R76,R9	Bellcore Issue 6	Level I		0.002268	17.00	1.2481	0.038551	440974090.03
105A722003	Resistor	R16,R26,R31	Bellcore Issue 6	Level I		0.002268	3.00	.2203	0.006803	440974090.03
105A747003	Resistor	R23,R47-R50,R53	Bellcore Issue 6	Level I		0.002268	6.00	.4405	0.013606	440974090.03
105A710053	Resistor	R2	Bellcore Issue 6	Level I		0.013606	1.00	.4405	0.013606	73495681.67
105A502033	Resistor	R4,R5	Bellcore Issue 6	Level I		0.002268	2.00	.1468	0.004535	440974090.03
105A505623	Resistor	R17	Bellcore Issue 6	Level I		0.002268	1.00	.0734	0.002268	440974090.03
105A510003	Resistor	R33,R34,R39,R40,R6	Bellcore Issue 6	Level I		0.002268	5.00	.3671	0.011339	440974090.03
105A701523	Resistor	R42	Bellcore Issue 6	Level I		0.002268	1.00	.0734	0.002268	440974090.03
105A702233	Resistor	R35	Bellcore Issue 6	Level I		0.002268	1.00	.0734	0.002268	440974090.03
105A705133	Resistor	R51	Bellcore Issue 6	Level I		0.002268	1.00	.0734	0.002268	440974090.03
105A710033	Resistor	R58,R66,R67,R69,R70	Bellcore Issue 6	Level I		0.002268	5.00	.3671	0.011339	440974090.03
1211101261	Inductor	L35,L37	Bellcore Issue 6	Level I		0.086173	2.00	5.5798	0.172346	11604581.32
105A501003	Resistor	R55,R57	Bellcore Issue 6	Level I		0.002268	2.00	.1468	0.004535	440974090.03
105A503633	Resistor	R43	Bellcore Issue 6	Level I		0.002268	1.00	.0734	0.002268	440974090.03
1122701680	Capacitor	C1,C16,C17,C21,C22,C27-C33,C37-,C39,C4,C40,C42,C43,C45,C47,C49-C52,C54	Bellcore Issue 6	Level I		0.004535	25.00	3.6710	0.113385	220487045.01
1122701680	Capacitor	C55,C57,C59,C6,C61,C62,C67,C68-,C70,C73,C74,C76,C77,C80,C83,C85,C86,C89	Bellcore Issue 6	Level I		0.004535	18.00	2.6431	0.081637	220487045.01
1122701680	Capacitor	C90	Bellcore Issue 6	Level I		0.004535	1.00	.1468	0.004535	220487045.01
1124405080	Capacitor	C25,C26	Bellcore Issue 6	Level I		0.004535	2.00	.2937	0.009071	220487045.01
1124410080	Capacitor	C24	Bellcore Issue 6	Level I		0.004535	1.00	.1468	0.004535	220487045.01
1124510280	Capacitor	C13,C14	Bellcore Issue 6	Level I		0.004535	2.00	.2937	0.009071	220487045.01
1124420080	Capacitor	C65,C66	Bellcore Issue 6	Level I		0.004535	2.00	.2937	0.009071	220487045.01
1540700080	Resistor	RN2-RN4,RN6	Bellcore Issue 6	Level I		0.006246	4.00	.8089	0.024984	160102772.00
1129747650	Capacitor	C60	Bellcore Issue 6	Level I		0.004535	1.00	.1468	0.004535	220487045.01

AAEON Reliability Prediction Report

Part Number 9697Y00902
Reference Des
Date 07. 25, 2007
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-APC-8122HTT-A1.RPJ
Time 4:07 PM
Failure Rate 3.088716
MTBF 323,759

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1174510180	Capacitor	CP1,CP10-CP14,CP2-CP9	Bellcore Issue 6	Level I		0.005466	14.00	2.4774	0.076519	182961702.19
1301005441	Semiconductor	D1-D9	Bellcore Issue 6	Level I		0.023881	9.00	6.9585	0.214929	41874327.58
1540775080	Resistor	RN5	Bellcore Issue 6	Level I		0.006246	1.00	.2022	0.006246	160102772.00
14S4636400	Integrated Circuit	U6	Bellcore Issue 6	Level I		0.059366	1.00	1.9220	0.059366	16844654.92
14S6334610	Integrated Circuit	U3	Bellcore Issue 6	Level I		0.030598	1.00	.9906	0.030598	32681842.61
1540747282	Resistor	RN1	Bellcore Issue 6	Level I		0.006246	1.00	.2022	0.006246	160102772.00
14S5207402	Integrated Circuit	U5	Bellcore Issue 6	Level I		0.039296	1.00	1.2722	0.039296	25448028.36
1124410180	Capacitor	C12,C91	Bellcore Issue 6	Level I		0.004535	2.00	.2937	0.009071	220487045.01
1121633180	Capacitor	C63	Bellcore Issue 6	Level I		0.004535	1.00	.1468	0.004535	220487045.01
1122501780	Capacitor	C23,C34	Bellcore Issue 6	Level I		0.004535	2.00	.2937	0.009071	220487045.01
1310390411	Semiconductor	Q1-Q3	Bellcore Issue 6	Level I		0.023881	3.00	2.3195	0.071643	41874327.58
105A503300	Resistor	R54,R56	Bellcore Issue 6	Level I		0.002268	2.00	.1468	0.004535	440974090.03
1654930330	Connection	CN31	Bellcore Issue 6	Level I		0.017069	1.00	.5526	0.017069	58585351.38
1213103008	Inductor	LN1,LN2	Bellcore Issue 6	Level I		0.002268	2.00	.1468	0.004535	440974090.03
1211104763	Inductor	L32-L34	Bellcore Issue 6	Level I		0.086173	3.00	8.3698	0.258519	11604581.32
105A524033	Resistor	R45	Bellcore Issue 6	Level I		0.002268	1.00	.0734	0.002268	440974090.03
1174510380	Capacitor	CP15	Bellcore Issue 6	Level I		0.005466	1.00	.1770	0.005466	182961702.19
105A551003	Resistor	R44	Bellcore Issue 6	Level I		0.002268	1.00	.0734	0.002268	440974090.03
1121733380	Capacitor	C20	Bellcore Issue 6	Level I		0.004535	1.00	.1468	0.004535	220487045.01
1301400640	Semiconductor	D10,D11	Bellcore Issue 6	Level I		0.023881	2.00	1.5463	0.047762	41874327.58
1752001500	Miscellaneous	F1	Bellcore Issue 6	Level I		0.030000	1.00	.9713	0.030000	33333333.33
14S4138100	Integrated Circuit	U2	Bellcore Issue 6	Level I		0.059366	1.00	1.9220	0.059366	16844654.92
1304101340	Semiconductor	LED1-LED6	Bellcore Issue 6	Level I		0.004877	6.00	.9473	0.029259	205063180.81
121230805L	Inductor	L12,L15,L16,L18,L30,L31,L36,L38,-L8	Bellcore Issue 6	Level I		0.002268	9.00	.6608	0.020409	440974090.03
1653925216	Connection	CON1	Bellcore Issue 6	Level I		0.028449	1.00	.9210	0.028449	35151210.83
14S6334605	Integrated Circuit	U9	Bellcore Issue 6	Level I		0.030598	1.00	.9906	0.030598	32681842.61
1189610186	Capacitor	C38,C5,C7,C71	Bellcore Issue 6	Level I		0.004535	4.00	.5874	0.018142	220487045.01
1129610051	Capacitor	C10,C2,C41,C44,C46,C48,C53,C56-,C58,C64,C69,C72,C75,C78,C8,C8-2,C87	Bellcore Issue 6	Level I		0.004535	17.00	2.4962	0.077102	220487045.01
14S4050100	Integrated Circuit	U1	Bellcore Issue 6	Level I		0.059366	1.00	1.9220	0.059366	16844654.92

