

AEC-6635

Reliability Prediction Report (MTBF)

Summary	Failure Rate:19.685823 ppm MTBF: 50798 Hours
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Issue date	Approval	Test Engineer
2011/09/16	Jansin Lee	Clement Chien

Reliability Prediction (MTBF)

I . Model Name: AEC-6635-A1M-1010

II . Prediction Date: Sep.16 ,2011

III . Prediction Site: AAEON Q.E. Dept.

IV . Predicted by: Clement Chien

V . Equipment: Relex Ver.7.3 Visual Reliability Software

VI. Simulation Environment:

- Temperature: 25.0 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:

AEC-6635-A1M-1010:

- Failure Rate: 19.685823 ppm

- MTBF:50798 Hours

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 09. 16, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name AEC-6635.RPJ
Time 14:18
Failure Rate 19.685823
MTBF 50,798

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
AEC-6635	System	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	19.69	50797.98
EPIC-QM57	9697QM5736-S	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	18.45	54187.98
PER-P17D	9697P17D01-S	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	1.07	931062.06

AAEON Reliability Prediction Report

Part Number 9697QM5736-S
Reference Des
Date 09. 16, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name AEC-6635.RPJ
Time 14:18
Failure Rate 18.454276
MTBF 54,188

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A700009	Resistor	C225,C226,C227, C228,C644,C645, C646,C647,L15,L21, L26,L30,L40,L8,R12, R125,R126,R130, R131,R140,R153,R16, R161,R162,R164, R166,R167,R170, R171,R174,R175, R177,R189,R191, R192,R193,R194, R195,R196,R197, R198,R199,R2,R2	Telcordia Issue 1	Level I		220.00	0.002268	2.7034	440974090.03
1129710090	Capacitor	C249,C251,C252, C253,C695,C697, C701	Telcordia Issue 1	Level I		7.00	0.004535	.1720	220487045.01
1124515281	Capacitor	C255	Telcordia Issue 1	Level I		1.00	0.004535	.0246	220487045.01
1124427090	Capacitor	C259,C260,C261, C262,C605,C617, C639,C648,C689, C692,C698,C710, C713	Telcordia Issue 1	Level I		13.00	0.004535	.3195	220487045.01
11E1510050	Capacitor	C271,C272	Telcordia Issue 1	Level I		2.00	0.004535	.0492	220487045.01
11A4422180	Capacitor	C274	Telcordia Issue 1	Level I		1.00	0.004535	.0246	220487045.01
1129722091	Capacitor	C282,C380	Telcordia Issue 1	Level I		2.00	0.004535	.0492	220487045.01
11E2647650	Capacitor	C314,C323,C344, C348	Telcordia Issue 1	Level I		4.00	0.004535	.0983	220487045.01
1124522880	Capacitor	C356	Telcordia Issue 1	Level I		1.00	0.004535	.0246	220487045.01
11E9610190	Capacitor	C389,C410	Telcordia Issue 1	Level I		2.00	0.004535	.0492	220487045.01
1189622150	Capacitor	C442,C454	Telcordia Issue 1	Level I		2.00	0.004535	.0492	220487045.01
11E1547090	Capacitor	C515,C519	Telcordia Issue 1	Level I		2.00	0.004535	.0492	220487045.01
1124433090	Capacitor	C623,C624,C670	Telcordia Issue 1	Level I		3.00	0.004535	.0737	220487045.01
1124522680	Capacitor	C678	Telcordia Issue 1	Level I		1.00	0.004535	.0246	220487045.01
11C4533180	Capacitor	C712	Telcordia Issue 1	Level I		1.00	0.004535	.0246	220487045.01
1211105673	Inductor	D4,D5	Telcordia Issue 1	Level I		2.00	0.086173	.9339	11604581.32
1305100541	Semiconductor	D24,D25,D26,D27, D30,D31,D32,D33, D34,D35,D36,D37,D6	Telcordia Issue 1	Level I		13.00	0.079603	5.6076	12562298.27
1301005440	Semiconductor	D17,D18,D20,D28, D38,D42,D7	Telcordia Issue 1	Level I		7.00	0.023881	.9058	41874327.58
1300414848	Semiconductor	D9	Telcordia Issue 1	Level I		1.00	0.023881	.1294	41874327.58
1301002240	Semiconductor	D11,D15,D21,D22	Telcordia Issue 1	Level I		4.00	0.023881	.5176	41874327.58
1301400642	Semiconductor	D29,D40,D41	Telcordia Issue 1	Level I		3.00	0.023881	.3882	41874327.58

AAEON Reliability Prediction Report

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Description
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Time 14:18
Failure Rate 18.454276
MTBF 54,188

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1310390410	Semiconductor	Q2,Q20,Q21,Q33,Q34, Q36,Q37,Q43,Q44, Q45,Q57,Q69,Q71, Q73	Telcordia Issue 1	Level I		14.00	0.023881	1.8117	41874327.58
1315442410	Semiconductor	Q28,Q4,Q53,Q72	Telcordia Issue 1	Level I	32.40	4.00	0.184364	3.9961	5424064.59
1315050311	Semiconductor	Q10,Q12,Q27,Q5,Q9	Telcordia Issue 1	Level I		5.00	0.159207	4.3135	6281149.14
1315R30310	Semiconductor	Q13,Q29,Q6,Q7,Q8	Telcordia Issue 1	Level I		5.00	0.159207	4.3135	6281149.14
1315441012	Semiconductor	Q15,Q52,Q55,Q61	Telcordia Issue 1	Level I		4.00	0.079603	1.7254	12562298.27
1311138610	Semiconductor	Q25,Q26	Telcordia Issue 1	Level I		2.00	0.023881	.2588	41874327.58
1315230511	Semiconductor	Q38	Telcordia Issue 1	Level I		1.00	0.079603	.4314	12562298.27
14S3524700	Integrated Circuit	Q42	Telcordia Issue 1	Level I		1.00	0.026183	.1419	38193355.79
1314108416	Integrated Circuit	Q46,Q68	Telcordia Issue 1	Level I		2.00	0.059366	.6434	16844654.92
131411171C	Integrated Circuit	Q60,Q62	Telcordia Issue 1	Level I		2.00	0.059366	.6434	16844654.92
1311390610	Semiconductor	Q74	Telcordia Issue 1	Level I		1.00	0.023881	.1294	41874327.58
1315667910	Semiconductor	Q75	Telcordia Issue 1	Level I		1.00	0.079603	.4314	12562298.27
1315668510	Semiconductor	Q83	Telcordia Issue 1	Level I		1.00	0.079603	.4314	12562298.27
1231332722	Miscellaneous	Y4	Telcordia Issue 1	Level I		1.00	0.150000	.8128	6666666.67
1315230300	Semiconductor	Q86	Telcordia Issue 1	Level I		1.00	0.079603	.4314	12562298.27
1540782282	Resistor	RP1,RP15,RP2,RP21, RP22,RP3	Telcordia Issue 1	Level I		6.00	0.006246	.2031	160102772.00
1540700081	Resistor	RP23,RP4,RP7	Telcordia Issue 1	Level I		3.00	0.006246	.1015	160102772.00
1540733085	Resistor	RP10,RP5,RP6,RP8, RP9	Telcordia Issue 1	Level I		5.00	0.006246	.1692	160102772.00
1540710084	Resistor	RP16,RP17,RP18, RP19,RP20,RP26, RP27,RP28,RP29, RP31,RP33,RP34	Telcordia Issue 1	Level I		12.00	0.006246	.4061	160102772.00
1540710280	Resistor	RP30,RP32	Telcordia Issue 1	Level I		2.00	0.006246	.0677	160102772.00
106B501032	Resistor	RT1,RT3,RT4,RT5, RT6	Telcordia Issue 1	Level I		5.00	0.011379	.3083	87878027.07
106B747030	Resistor	RT2	Telcordia Issue 1	Level I		1.00	0.011379	.0617	87878027.07
105A733009	Resistor	R158,R159,R160, R168,R169,R185, R301,R336,R337,R5, R6,R7,R831	Telcordia Issue 1	Level I		13.00	0.002268	.1597	440974090.03
105A502033	Resistor	R100,R341,R63,R822, R9	Telcordia Issue 1	Level I		5.00	0.002268	.0614	440974090.03

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Description
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Time 14:18
Failure Rate 18.454276
MTBF 54,188

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
105A702229	Resistor	R210,R265,R381, R395,R401,R420, R436,R449,R455, R608,R65,R661,R740, R741,R792,R793, R794,R795,R801, R808,R819,R820	Telcordia Issue 1	Level I		22.00	0.002268	.2703	440974090.03
105A512103	Resistor	R215,R72	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
105A708229	Resistor	R146,R178,R209, R619,R77	Telcordia Issue 1	Level I		5.00	0.002268	.0614	440974090.03
105A703309	Resistor	R187,R190,R219, R221,R239,R242, R243,R244,R245, R249,R250,R252, R253,R254,R273, R276,R404,R560, R605,R676,R766,R86, R87,R88	Telcordia Issue 1	Level I		24.00	0.002268	.2949	440974090.03
1050520004	Resistor	R110,R111,R113, R165,R182,R186, R220,R344,R89	Telcordia Issue 1	Level I		9.00	0.002268	.1106	440974090.03
105A515009	Resistor	R128,R136,R137, R173,R309,R310, R325,R326,R328, R696,R780,R784, R785	Telcordia Issue 1	Level I		13.00	0.002268	.1597	440974090.03
105A510009	Resistor	R104,R105,R116, R569,R602,R615, R626,R636	Telcordia Issue 1	Level I		8.00	0.002268	.0983	440974090.03
1059704703	Resistor	R114	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A704334	Resistor	R133,R493	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
123132505C	Miscellaneous	Y1,Y3,Y5	Telcordia Issue 1	Level I		3.00	0.150000	2.4385	6666666.67
105A508203	Resistor	R172,R176,R565	Telcordia Issue 1	Level I		3.00	0.002268	.0369	440974090.03
105A500139	Resistor	R180,R183,R207, R208,R256,R261, R300,R345,R346, R397,R555,R556, R677	Telcordia Issue 1	Level I		13.00	0.002268	.1597	440974090.03
105A506823	Resistor	R227,R251,R439	Telcordia Issue 1	Level I		3.00	0.002268	.0369	440974090.03
105A700103	Resistor	R240,R362,R377	Telcordia Issue 1	Level I		3.00	0.002268	.0369	440974090.03
105A503033	Resistor	R241	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A705609	Resistor	R267,R548,R716, R722,R724,R733	Telcordia Issue 1	Level I		6.00	0.002268	.0737	440974090.03
105A702209	Resistor	R270,R332,R478, R481,R545,R554, R561,R769,R772, R773	Telcordia Issue 1	Level I		10.00	0.002268	.1229	440974090.03
105A502003	Resistor	R292,R293	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03

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Failure Rate 18.454276
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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A505103	Resistor	R294,R664	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
105A549969	Resistor	R296,R523,R568, R572,R623	Telcordia Issue 1	Level I		5.00	0.002268	.0614	440974090.03
105A513333	Resistor	R297	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A549913	Resistor	R298,R624,R625	Telcordia Issue 1	Level I		3.00	0.002268	.0369	440974090.03
105A702263	Resistor	R302,R303,R698	Telcordia Issue 1	Level I		3.00	0.002268	.0369	440974090.03
1050519114	Resistor	R314	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A704733	Resistor	R319,R469	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
105A580613	Resistor	R320	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A573213	Resistor	R323	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A507509	Resistor	R324,R327,R329, R424,R425,R426, R427,R503,R515	Telcordia Issue 1	Level I		9.00	0.002268	.1106	440974090.03
105A541233	Resistor	R330	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A556203	Resistor	R331	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A540213	Resistor	R351	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A512423	Resistor	R356	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A700233	Resistor	R363,R521	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
105A549903	Resistor	R366	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A514733	Resistor	R374	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A510523	Resistor	R387,R389	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
105A706803	Resistor	R388,R666	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
105A710053	Resistor	R390,R689	Telcordia Issue 1	Level I		2.00	0.013606	.1475	73495681.67
105A547033	Resistor	R394	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
1050530034	Resistor	R396	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A533213	Resistor	R412,R423	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
105A522663	Resistor	R429	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A537463	Resistor	R508	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A590963	Resistor	R513	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A515413	Resistor	R526	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A705123	Resistor	R527	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A575003	Resistor	R528,R612	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
105A523713	Resistor	R539	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A532463	Resistor	R544	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A554963	Resistor	R551	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A501503	Resistor	R552,R627	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
105A522003	Resistor	R583,R587	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
105A501523	Resistor	R613	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03

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Failure Rate 18.454276
MTBF 54,188

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105A530113	Resistor	R614,R640,R641, R705	Telcordia Issue 1	Level I		4.00	0.002268	.0492	440974090.03
105A524963	Resistor	R639	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A513003	Resistor	R649	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A507533	Resistor	R683	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A542233	Resistor	R697	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A517423	Resistor	R711	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A509133	Resistor	R714	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
1050582514	Resistor	R718	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
1059704761	Resistor	R720	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A705139	Resistor	R727,R728,R729, R732,R776	Telcordia Issue 1	Level I		5.00	0.002268	.0614	440974090.03
105A747003	Resistor	R731,R757	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
105A536513	Resistor	R748	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A501529	Resistor	R750	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A526113	Resistor	R761	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A701003	Resistor	R764	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
1059710001	Resistor	R802,R803,R810	Telcordia Issue 1	Level I		3.00	0.002268	.0369	440974090.03
105A700109	Resistor	R832,R833,R834, R835,R836,R837, R838,R839	Telcordia Issue 1	Level I		8.00	0.002268	.0983	440974090.03
1189633160	Capacitor	TC1,TC10,TC11,TC12, TC13,TC14,TC15, TC16,TC17,TC18, TC19,TC20,TC21, TC22,TC24,TC27, TC28,TC5,TC6,TC7, TC8,TC9	Telcordia Issue 1	Level I		22.00	0.004535	.5407	220487045.01
1189915180	Capacitor	TC2,TC3,TC30,TC32	Telcordia Issue 1	Level I		4.00	0.004535	.0983	220487045.01
1182633080	Capacitor	TC4	Telcordia Issue 1	Level I		1.00	0.004535	.0246	220487045.01
14S5A00821	Integrated Circuit	U1,U12,U13,U15,U39, U43,U45,U46,U6,U7	Telcordia Issue 1	Level I		10.00	0.026183	1.4188	38193355.79
14S2047500	Integrated Circuit	U2,U8	Telcordia Issue 1	Level I		2.00	0.045998	.4985	21739992.33
14S4288200	Integrated Circuit	U3	Telcordia Issue 1	Level I		1.00	0.026183	.1419	38193355.79
14S5912300	Integrated Circuit	U5	Telcordia Issue 1	Level I		1.00	0.065211	.3534	15334865.74
14S9811500	Integrated Circuit	U9	Telcordia Issue 1	Level I		1.00	0.059366	.3217	16844654.92
14S4BD8200	Integrated Circuit	U11	Telcordia Issue 1	Level I	27.60	1.00	0.115590	.6264	8651263.29
14S4036800	Integrated Circuit	U14	Telcordia Issue 1	Level I	25.70	1.00	0.335142	1.8161	2983810.94
14S4021301	Integrated Circuit	U16,U24,U25,U48	Telcordia Issue 1	Level I		4.00	0.059366	1.2868	16844654.92
14S5A00401	Integrated Circuit	U17,U32	Telcordia Issue 1	Level I		2.00	0.026183	.2838	38193355.79
14S5812502	Integrated Circuit	U18	Telcordia Issue 1	Level I		1.00	0.025195	.1365	39690712.96
14S5A12506	Integrated Circuit	U19	Telcordia Issue 1	Level I		1.00	0.026183	.1419	38193355.79

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Time 14:18
Failure Rate 18.454276
MTBF 54,188

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
123131435F	Miscellaneous	Y2	Telcordia Issue 1	Level I		1.00	0.150000	.8128	6666666.67
14S4048502	Integrated Circuit	U28,U49	Telcordia Issue 1	Level I		2.00	0.059366	.6434	16844654.92
14S3128421	Integrated Circuit	U31	Telcordia Issue 1	Level I		1.00	0.059366	.3217	16844654.92
14S4825740	Integrated Circuit	U33	Telcordia Issue 1	Level I		1.00	0.026183	.1419	38193355.79
14S2041800	Integrated Circuit	U34	Telcordia Issue 1	Level I		1.00	0.059366	.3217	16844654.92
14S4288100	Integrated Circuit	U35	Telcordia Issue 1	Level I		1.00	0.026183	.1419	38193355.79
1314780511	Integrated Circuit	U36	Telcordia Issue 1	Level I		1.00	0.059366	.3217	16844654.92
14S2048800	Integrated Circuit	U38	Telcordia Issue 1	Level I		1.00	0.059366	.3217	16844654.92
14S4878100	Integrated Circuit	U50	Telcordia Issue 1	Level I		1.00	0.026183	.1419	38193355.79
1315970211	Semiconductor	U52,U56,U57	Telcordia Issue 1	Level I		3.00	0.079603	1.2941	12562298.27
14S4257701	Inductor	U53	Telcordia Issue 1	Level I		1.00	0.136062	.7373	7349568.17
14S2200900	Integrated Circuit	U54	Telcordia Issue 1	Level I		1.00	0.059366	.3217	16844654.92
14S9341101	Integrated Circuit	U55	Telcordia Issue 1	Level I		1.00	0.059366	.3217	16844654.92
14S3E00100	Integrated Circuit	U58	Telcordia Issue 1	Level I		1.00	0.059366	.3217	16844654.92
14S3S00900	Integrated Circuit	U59	Telcordia Issue 1	Level I		1.00	0.059366	.3217	16844654.92
1654920302	Connection	CN12	Telcordia Issue 1	Level I		1.00	0.001138	.0062	878780270.71
121230603D	Inductor	L12,L13,L14	Telcordia Issue 1	Level I		3.00	0.002268	.0369	440974090.03
105A505623	Resistor	R163,R358	Telcordia Issue 1	Level I		2.00	0.002268	.0246	440974090.03
105A501133	Resistor	R53	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A518713	Resistor	R26	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
14S6308002	Integrated Circuit	U51	Telcordia Issue 1	Level I		1.00	0.102105	.5533	9793828.99
105A703039	Resistor	R841	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
105A701539	Resistor	R843	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
1050584514	Resistor	R402	Telcordia Issue 1	Level I		1.00	0.002268	.0123	440974090.03
1600030203	Connection	SW1(1-0N,2-OFF)	Telcordia Issue 1	Level I		1.00	0.001138	.0062	878780270.71
1651609882	Connection	U23	Telcordia Issue 1	Level I		1.00	0.013655	.0740	73231689.23
1654226303	Connection	CN19	Telcordia Issue 1	Level I		1.00	0.001138	.0062	878780270.71
1301005444	Semiconductor	D1,D2,D8	Telcordia Issue 1	Level I		3.00	0.023881	.3882	41874327.58
14S3950500	Integrated Circuit	U30	Telcordia Issue 1	Level I	25.50	1.00	0.104164	.5644	9600209.68
1655306023	Connection	CN23	Telcordia Issue 1	Level I		1.00	0.001138	.0062	878780270.71
1654445300	Connection	CN35	Telcordia Issue 1	Level I		1.00	0.001138	.0062	878780270.71
1655902030	Miscellaneous	BAT1	Telcordia Issue 1	Level I		1.00	0.600000	3.2513	1666666.67
175011901C	Miscellaneous	BAT2	Telcordia Issue 1	Level I		1.00	0.600000	3.2513	1666666.67
175910000B	Miscellaneous	BUZZ1	Telcordia Issue 1	Level I		1.00	0.150000	.8128	6666666.67
1655910131	Connection	CN1	Telcordia Issue 1	Level I		1.00	0.001138	.0062	878780270.71
1655305020	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.001138	.0062	878780270.71

AAEON Reliability Prediction Report

Part Number 9697QM5736-S
Reference Des
Date 09. 16, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

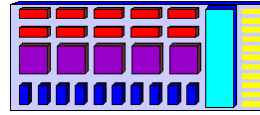


Description
File Name AEC-6635.RPJ
Time 14:18
Failure Rate 18.454276
MTBF 54,188

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1652602108	Connection	CN5	Telcordia Issue 1	Level I		1.00	0.001138	.0062	878780270.71
1654409103	Connection	CN11	Telcordia Issue 1	Level I		1.00	0.001138	.0062	878780270.71
165320520E	Connection	CN17	Telcordia Issue 1	Level I		1.00	0.001138	.0062	878780270.71
1653005201	Connection	CN21	Telcordia Issue 1	Level I		1.00	0.001138	.0062	878780270.71
1655909031	Connection	CN25,CN26,CN34	Telcordia Issue 1	Level I		3.00	0.001138	.0185	878780270.71
1655306020	Connection	CN27	Telcordia Issue 1	Level I		1.00	0.001138	.0062	878780270.71
1655003010	Connection	CN28	Telcordia Issue 1	Level I		1.00	0.001138	.0062	878780270.71
165251420B	Connection	CN29,CN30	Telcordia Issue 1	Level I		2.00	0.001138	.0123	878780270.71
1654808309	Connection	CN31,CN32	Telcordia Issue 1	Level I		2.00	0.001138	.0123	878780270.71
1653003101	Connection	JP2,JP7	Telcordia Issue 1	Level I		2.00	0.001138	.0123	878780270.71
1653003201	Connection	JP3,JP4,JP6	Telcordia Issue 1	Level I		3.00	0.001138	.0185	878780270.71
1653300107	Connection	JP2(2-3), JP3-1(3-5), JP3-2(4-6), JP6(3-4)	Telcordia Issue 1	Level I		4.00	0.001138	.0247	878780270.71
1653300108	Connection	JP4-1(1-3), JP4-2(2-4)	Telcordia Issue 1	Level I		2.00	0.001138	.0123	878780270.71
1654907002	Connection	SATA1,SATA2	Telcordia Issue 1	Level I		2.00	0.001138	.0123	878780270.71
1655304020	Connection	CN7	Telcordia Issue 1	Level I		1.00	0.001138	.0062	878780270.71
1653300102	Connection	JP7(2-3)	Telcordia Issue 1	Level I		1.00	0.001138	.0062	878780270.71
1653900039	Connection	CN36A	Telcordia Issue 1	Level I		1.00	0.001138	.0062	878780270.71

AAEON Reliability Prediction Report

Part Number 9697P17D01-S
Reference Des
Date 09. 16, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name AEC-6635.RPJ
Time 14:18
Failure Rate 1.074042
MTBF 931,062

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1053500279	Resistor	CR1,CR2	Telcordia Issue 1	Level I		2.00	0.002268	.4223	440974090.03
1121610060	Capacitor	C1,C2,C3	Telcordia Issue 1	Level I		3.00	0.004535	1.2668	220487045.01
11C4501060	Capacitor	C4	Telcordia Issue 1	Level I		1.00	0.004535	.4223	220487045.01
1121547661	Capacitor	C10,C5	Telcordia Issue 1	Level I		2.00	0.004535	.8446	220487045.01
11C1522480	Capacitor	C13,C6	Telcordia Issue 1	Level I		2.00	0.004535	.8446	220487045.01
1122501780	Capacitor	C12,C7	Telcordia Issue 1	Level I		2.00	0.004535	.8446	220487045.01
1124522280	Capacitor	C11	Telcordia Issue 1	Level I		1.00	0.004535	.4223	220487045.01
1124522880	Capacitor	C14	Telcordia Issue 1	Level I		1.00	0.004535	.4223	220487045.01
1189610180	Capacitor	C17	Telcordia Issue 1	Level I		1.00	0.004535	.4223	220487045.01
1124701680	Capacitor	C18,C19,C22,C23,C8	Telcordia Issue 1	Level I		5.00	0.004535	2.1114	220487045.01
1301005442	Semiconductor	D1	Telcordia Issue 1	Level I		1.00	0.023881	2.2235	41874327.58
1301003240	Semiconductor	D2	Telcordia Issue 1	Level I		1.00	0.023881	2.2235	41874327.58
1301003440	Semiconductor	D3	Telcordia Issue 1	Level I		1.00	0.023881	2.2235	41874327.58
1301003640	Semiconductor	D4	Telcordia Issue 1	Level I		1.00	0.023881	2.2235	41874327.58
121110336H	Inductor	L1	Telcordia Issue 1	Level I		1.00	0.002268	.2111	440974090.03
1212308054	Inductor	L2,L3,L4	Telcordia Issue 1	Level I		3.00	0.002268	.6334	440974090.03
105A701003	Resistor	R1	Telcordia Issue 1	Level I		1.00	0.002268	.2111	440974090.03
105A534823	Resistor	R4	Telcordia Issue 1	Level I		1.00	0.002268	.2111	440974090.03
105A704723	Resistor	R5	Telcordia Issue 1	Level I		1.00	0.002268	.2111	440974090.03
105A524913	Resistor	R6	Telcordia Issue 1	Level I		1.00	0.002268	.2111	440974090.03
105A502033	Resistor	R7	Telcordia Issue 1	Level I		1.00	0.002268	.2111	440974090.03
105A700003	Resistor	R10,R11,R12,R13, R15,R9	Telcordia Issue 1	Level I		6.00	0.002268	1.2668	440974090.03
105A512413	Resistor	R14,R16	Telcordia Issue 1	Level I		2.00	0.002268	.4223	440974090.03
1059710003	Resistor	R17	Telcordia Issue 1	Level I		1.00	0.002268	.2111	440974090.03
105A700333	Resistor	R18	Telcordia Issue 1	Level I		1.00	0.002268	.2111	440974090.03
105A700133	Resistor	R19	Telcordia Issue 1	Level I		1.00	0.002268	.2111	440974090.03
14S3378000	Integrated Circuit	U1	Telcordia Issue 1	Level I		1.00	0.059366	5.5273	16844654.92
1314257610	Integrated Circuit	U2	Telcordia Issue 1	Level I	24.60	1.00	0.312974	29.1398	3195151.78
1315567011	Integrated Circuit	Q1,Q3	Telcordia Issue 1	Level I		2.00	0.059366	11.0547	16844654.92
1315889612	Integrated Circuit	Q2,Q4	Telcordia Issue 1	Level I		2.00	0.059366	11.0547	16844654.92
1211103301	Inductor	L5	Telcordia Issue 1	Level I		1.00	0.002268	.2111	440974090.03
1652003101	Connection	CN1	Telcordia Issue 1	Level I		1.00	0.001138	.1059	878780270.71
1655104005	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.001138	.1059	878780270.71
1655004011	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.001138	.1059	878780270.71
1189618090	Capacitor	EC1,EC2	Telcordia Issue 1	Level I		2.00	0.004535	.8446	220487045.01
1181647110	Capacitor	EC3,EC4	Telcordia Issue 1	Level I		2.00	0.004535	.8446	220487045.01

