

AIS-E1

Reliability Prediction Report

(MTBF)

Summary	Failure Rate: 18.198983 ppm MTBF: 54,948 Hours
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Issue date	Approval	Test Engineer
2012/08/09	Tom Lin	Jessica Chou

Reliability Prediction (MTBF)

I . Model Name: AIS-E1-QM67-001

II . Prediction Date: Aug. 9th, 2012

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: 25.7 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:

AIS-E1-QM67-001 (Not include Adaptor, FAN):

- Failure Rate: 18.198983ppm
- MTBF: 54,948 (hour)

Below component value was provided by the supplier:

- (TF)Adaptor.AC.100/240V.12V/7A.84W.FSP.FSP084-DMAA1 P/N:9NA084040X

MTBF: The subject adapter have a minimum predicted MTBF(MIL-STD-217F) of 30,000 hours of continuous operation at 25°C, maximum-output load, and nominal AC input voltage.

- (TF)CPU Cooler.Fan+Sink.4P.60*60*26.5mm.COOLJAG.JACDD01A-4
LIFE EXPECTANCY: 60,000 hours at 40 deg. C, 65% humidity, 90% CL.

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 08. 9, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.70



Description Top-level assembly
File Name AIS-E1.RPJ
Time 13:35
Failure Rate 18.198983
MTBF 54,948

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
AIS-E1-QM67-001	System	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	18.20	54948.13
ASS'Y EMB-QM67-A10	9697QM6716-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	18.20	54948.13

AAEON Reliability Prediction Report

Part Number 9697QM6716-D
Reference Des
Date 08. 9, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.70



Description
File Name AIS-E1.RPJ
Time 13:35
Failure Rate 18.198983
MTBF 54,948

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1129710090	Capacitor	C205,C206,C481, C482,C483,C484, C485,C487,C488, C489	Telcordia Issue 1	Level I		10.00	0.004598	.2526	217490326.72
1124418090	Capacitor	C121,C123,C142, C143	Telcordia Issue 1	Level I		4.00	0.004598	.1011	217490326.72
1129722091	Capacitor	C476	Telcordia Issue 1	Level I		1.00	0.004598	.0253	217490326.72
1124427090	Capacitor	C186,C189,C198, C203	Telcordia Issue 1	Level I		4.00	0.004598	.1011	217490326.72
1124433090	Capacitor	C190,C193,C477, C478	Telcordia Issue 1	Level I		4.00	0.004598	.1011	217490326.72
1129747090	Capacitor	C131,C185	Telcordia Issue 1	Level I		2.00	0.004598	.0505	217490326.72
1121610180	Capacitor	C221,C490,C491, C492,C493,C494	Telcordia Issue 1	Level I		6.00	0.004598	.1516	217490326.72
1124418190	Capacitor	C10,C11,C12,C13, C14,C15,C16,C17, C18,C19,C20,C21, C22,C225,C226,C227, C228,C229,C23,C230, C231,C24,C241,C242, C243,C244,C25,C258, C259,C26,C260,C261, C27,C28,C29,C30, C31,C32,C33,C34, C35,C36,C475,C5,C6, C7,C8,C9	Telcordia Issue 1	Level I		48.00	0.004598	1.2127	217490326.72
1124522190	Capacitor	C224,C232,C233, C234	Telcordia Issue 1	Level I		4.00	0.004598	.1011	217490326.72
1124433190	Capacitor	C1,C128	Telcordia Issue 1	Level I		2.00	0.004598	.0505	217490326.72
1129710390	Capacitor	C149,C325,C341, C344,C379,C4,C43, C444,C460,C468, C472,C53	Telcordia Issue 1	Level I		12.00	0.004598	.3032	217490326.72
1124518280	Capacitor	C316,C38	Telcordia Issue 1	Level I		2.00	0.004598	.0505	217490326.72
1129701790	Capacitor	C148,C2,C207,C208, C280,C283,C289, C290,C318,C319, C320,C321,C329, C340,C421,C425, C445,C45,C450,C48, C51,C52,C56,C57, C58,C59,C73,C77, C79,C83	Telcordia Issue 1	Level I		30.00	0.004598	.7579	217490326.72
11C4515380	Inductor	C39	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
11C1533890	Capacitor	C330,C70	Telcordia Issue 1	Level I		2.00	0.004598	.0505	217490326.72
11C1547890	Capacitor	C61	Telcordia Issue 1	Level I		1.00	0.004598	.0253	217490326.72

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MTBF 54,948

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
11C2522650	Capacitor	TC30,TC56	Telcordia Issue 1	Level I		2.00	0.004598	.0505	217490326.72
11E9610080	Capacitor	C150,C178,C179, C209,C210,C249, C250,C251,C252, C253,C254,C276, C284,C288,C292, C293,C294,C295, C296,C301,C302, C386,C464,C474, TC23,TC26,TC29, TC31,TC36,TC37, TC38,TC41,TC48, TC49,TC52,TC54, TC55,TC57,TC58,	Telcordia Issue 1	Level I		46.00	0.004598	1.1622	217490326.72
11E9510050	Capacitor	TC1,TC121,TC122, TC123,TC13,TC14, TC15,TC16,TC17, TC18,TC32,TC33, TC35,TC44,TC45, TC46,TC47,TC5,TC51, TC53,TC62,TC63, TC64	Telcordia Issue 1	Level I		23.00	0.004598	.5811	217490326.72
11E9622050	Capacitor	C100,C101,C102, C103,C104,C105, C106,C107,C114, C115,C118,C119, C120,C147,C151, C152,C153,C154, C155,C156,C157, C158,C159,C160, C161,C166,C308, C313,C317,C366, C367,C371,C372, C373,C374,C375, C376,C377,C392,	Telcordia Issue 1	Level I		57.00	0.004598	1.4401	217490326.72
1189610151	Capacitor	C122,C256,C257, EC11	Telcordia Issue 1	Level I		4.00	0.004598	.1011	217490326.72
1214309008	Inductor	CM1,CM2,CM3,CM4, L19,L20,L21,L22	Telcordia Issue 1	Level I		8.00	0.002299	.1011	434980653.44
165300420L	Connection	CN5	Telcordia Issue 1	Level I		1.00	0.004721	.0259	211822435.15
1653005209	Connection	CN4	Telcordia Issue 1	Level I		1.00	0.005901	.0324	169457948.12
1654030003	Connection	CN10	Telcordia Issue 1	Level I		1.00	0.017704	.0973	56485982.71
1654226303	Connection	CN15	Telcordia Issue 1	Level I		1.00	0.001180	.0065	847289740.62
1654926900	Connection	CN15_1	Telcordia Issue 1	Level I		1.00	0.030686	.1686	32588066.95

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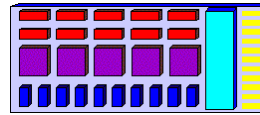


Description
File Name AIS-E1.RPJ
Time 13:35
Failure Rate 18.198983
MTBF 54,948

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1653924110	Connection	CN14	Telcordia Issue 1	Level I		1.00	0.001180	.0065	847289740.62
1305100541	Semiconductor	D13,D14,D15,D16, D17,D18,D19,D20, D41,D42,D43,D44, D45,D46,D47,D48, D53,D54,D55,D56,D7, D8	Telcordia Issue 1	Level I		22.00	0.024365	2.9454	41042258.69
1301005442	Semiconductor	D1,D21,D6	Telcordia Issue 1	Level I		3.00	0.024365	.4016	41042258.69
1301005440	Semiconductor	D10,D11,D12,D28,D5, Q89	Telcordia Issue 1	Level I		6.00	0.024365	.8033	41042258.69
1301005450	Semiconductor	D24,D25	Telcordia Issue 1	Level I		2.00	0.024365	.2678	41042258.69
1304001340	Semiconductor	D9,LED1,LED2	Telcordia Issue 1	Level I		3.00	0.005198	.0857	192376968.39
1752001601	Miscellaneous	FS1,FS4,FS5,FS6	Telcordia Issue 1	Level I		4.00	0.003000	.0659	333333333.33
1211100160	Inductor	L24	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
1211103671	Inductor	L12,L16,L7	Telcordia Issue 1	Level I		3.00	0.087360	1.4401	11446859.30
1211103671	Inductor	L15	Telcordia Issue 1	Level I	30.80	1.00	0.150596	.8275	6640302.39
121110100F	Inductor	L10,L23	Telcordia Issue 1	Level I		2.00	0.087360	.9601	11446859.30
1315700216	Semiconductor	Q10,Q11,Q20,Q26, Q27,Q4,Q40,Q41,Q42, Q44,Q45,Q46,Q47, Q48,Q5,Q51,Q52,Q53, Q55,Q56,Q57,Q58, Q59,Q65,Q70,Q72, Q74,Q78,Q84,Q85, Q86	Telcordia Issue 1	Level I		31.00	0.081217	13.8345	12312677.61
14S3524700	Integrated Circuit	Q82	Telcordia Issue 1	Level I		1.00	0.062478	.3433	16005690.99
1315050311	Integrated Circuit	Q16,Q18,Q22,Q24,Q3, Q34,Q35,Q37,Q38,Q6	Telcordia Issue 1	Level I		10.00	0.062478	3.4330	16005690.99
1315230511	Semiconductor	Q79	Telcordia Issue 1	Level I		1.00	0.081217	.4463	12312677.61
1315R30310	Integrated Circuit	Q32	Telcordia Issue 1	Level I	28.60	1.00	0.417925	2.2964	2392776.28
1315R30310	Integrated Circuit	Q17,Q19,Q2,Q23,Q25, Q31,Q32,Q33,Q36, Q49,Q73,Q76,Q77,Q8, Q80,Q87,Q88	Telcordia Issue 1	Level I		16.00	0.062478	5.4929	16005690.99
1310390410	Semiconductor	Q21,Q39,Q43,Q81	Telcordia Issue 1	Level I		4.00	0.024365	.5355	41042258.69
1540733082	Resistor	RP5	Telcordia Issue 1	Level I		1.00	0.006449	.0354	155071341.80
1540710280	Resistor	RP1,RP3,RP4	Telcordia Issue 1	Level I		3.00	0.006449	.1063	155071341.80
1540722280	Resistor	RP2	Telcordia Issue 1	Level I		1.00	0.006449	.0354	155071341.80
106B701031	Resistor	RT1,RT2,RT3,RT4	Telcordia Issue 1	Level I		4.00	0.011802	.2594	84728974.06
106B747030	Resistor	RT5,RT6	Telcordia Issue 1	Level I		2.00	0.011802	.1297	84728974.06

AAEON Reliability Prediction Report

Part Number 9697QM6716-D
Reference Des
Date 08. 9, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.70



Description
File Name AIS-E1.RPJ
Time 13:35
Failure Rate 18.198983
MTBF 54,948

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A700009	Resistor	R101,R117,R12,R125, R13,R133,R157,R161, R164,R165,R166, R169,R184,R186, R207,R208,R214, R216,R218,R227,R24, R245,R249,R251, R257,R259,R26,R264, R267,R269,R271, R272,R273,R274, R282,R284,R296, R298,R305,R310, R315,R317,R327,	Telcordia Issue 1	Level I		135.00	0.002299	1.7054	434980653.44
105A700003	Resistor	R105,R182,R183, R323,R334,R391, R392,R393,R396, R397,R398,R45,R450, R476,R49,R587,R588, R596,R626,R654, R665,R708,R770, R841,R886,R888, R931	Telcordia Issue 1	Level I		27.00	0.002299	.3411	434980653.44
1059700001	Resistor	L25,L26,L27,L28, R179,R321,R322, R345,R561,R599,R68, R853	Telcordia Issue 1	Level I		12.00	0.002299	.1516	434980653.44
105A700109	Resistor	R311	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
1059702261	Resistor	R717,R852,R874, R878	Telcordia Issue 1	Level I		4.00	0.002299	.0505	434980653.44
105A701009	Resistor	R116,R250,R254, R268,R291,R292, R406,R730,R744, R792,R832,R857, R872,R873	Telcordia Issue 1	Level I		14.00	0.002299	.1769	434980653.44
105A701003	Resistor	R23,R30	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
1050502204	Resistor	R459,R460,R465, R466,R467,R468	Telcordia Issue 1	Level I		6.00	0.002299	.0758	434980653.44
105A522663	Resistor	R213	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
1050524904	Resistor	R189,R198	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
105A503309	Resistor	R153,R225,R275, R278,R289,R687, R749,R753,R795	Telcordia Issue 1	Level I		9.00	0.002299	.1137	434980653.44
1050704304	Resistor	R777,R787	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
105A549969	Resistor	R177	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
105A505109	Resistor	R771,R775,R780, R781,R782	Telcordia Issue 1	Level I		5.00	0.002299	.0632	434980653.44

AAEON Reliability Prediction Report

Part Number 9697QM6716-D
Reference Des
Date 08. 9, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.70



Description
File Name AIS-E1.RPJ
Time 13:35
Failure Rate 18.198983
MTBF 54,948

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1050505604	Resistor	R304,R789	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
105A507509	Resistor	R309,R793,R904, R907,R908	Telcordia Issue 1	Level I		5.00	0.002299	.0632	434980653.44
105A507503	Resistor	R479,R913,R914, R915,R916,R917	Telcordia Issue 1	Level I		6.00	0.002299	.0758	434980653.44
105A590963	Resistor	R294	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
105A510009	Resistor	R100,R203,R266, R279,R5,R507	Telcordia Issue 1	Level I		6.00	0.002299	.0758	434980653.44
105A513009	Resistor	R314,R774,R93	Telcordia Issue 1	Level I		3.00	0.002299	.0379	434980653.44
105A515009	Resistor	R285,R286,R287, R469,R470,R471	Telcordia Issue 1	Level I		6.00	0.002299	.0758	434980653.44
1050520004	Resistor	R576,R661,R92	Telcordia Issue 1	Level I		3.00	0.002299	.0379	434980653.44
105A733009	Resistor	R147	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
105A733003	Resistor	R4,R6,R923,R927	Telcordia Issue 1	Level I		4.00	0.002299	.0505	434980653.44
105A539003	Resistor	R149,R901	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
1050549904	Resistor	R320	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
105A575009	Resistor	R143,R167	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
105A500139	Resistor	R104,R110,R118, R142,R158,R170, R171,R173,R197, R205,R223,R261,R32, R341,R35,R369,R39, R40,R44,R481,R518, R519,R533,R536,R54, R608,R629,R64,R65, R675,R693,R772, R808,R81,R83,R84, R859,R910,R99	Telcordia Issue 1	Level I		39.00	0.002299	.4927	434980653.44
105A500133	Resistor	R112,R589,R623, R713,R921	Telcordia Issue 1	Level I		5.00	0.002299	.0632	434980653.44
105A501529	Resistor	R230	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
105A702229	Resistor	R131,R156,R191, R194,R195,R199, R201,R25,R288,R290, R441,R447,R451, R452,R484,R485, R505,R506,R554, R584,R591,R592, R707,R720,R735,R78, R814,R815,R816, R817,R818,R819, R820,R821,R837, R905,R911	Telcordia Issue 1	Level I		37.00	0.002299	.4674	434980653.44
105A523713	Resistor	R742	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44

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Temp. (°C) 25.70

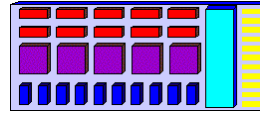


Description
File Name AIS-E1.RPJ
Time 13:35
Failure Rate 18.198983
MTBF 54,948

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
105A501033	Resistor	R17,R187,R38,R480, R486,R493,R494, R577,R635,R636,R69, R70,R86,R87,R88, R89,R932,R933	Telcordia Issue 1	Level I		18.00	0.002299	.2274	434980653.44
105A501139	Resistor	R150,R364,R801	Telcordia Issue 1	Level I		3.00	0.002299	.0379	434980653.44
105A501539	Resistor	R212,R306,R529, R652,R758,R98	Telcordia Issue 1	Level I		6.00	0.002299	.0758	434980653.44
105A518223	Resistor	R582	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
105A502033	Resistor	R244,R482,R930	Telcordia Issue 1	Level I		3.00	0.002299	.0379	434980653.44
1050502234	Resistor	R128,R136	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
105A502233	Resistor	R462,R463	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
105A503033	Resistor	R640	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
1050504734	Resistor	R155,R690	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
1050510034	Resistor	R103,R108,R109, R113,R119,R124,R18, R219,R220,R232, R248,R375,R52,R53, R57,R61,R613,R637, R658,R666,R738, R824,R825,R828	Telcordia Issue 1	Level I		24.00	0.002299	.3032	434980653.44
1050533034	Resistor	R196,R736	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
105A547033	Resistor	R515	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
105A701053	Resistor	R202,R283	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
105A701069	Resistor	R210	Telcordia Issue 1	Level I		1.00	0.013794	.0758	72496775.57
14S5A00401	Integrated Circuit	U52	Telcordia Issue 1	Level I		1.00	0.027280	.1499	36657127.03
14S5A00702	Integrated Circuit	U19,U56,U66	Telcordia Issue 1	Level I		3.00	0.062478	1.0299	16005690.99
14S5A00821	Integrated Circuit	U21,U24,U30,U40	Telcordia Issue 1	Level I		4.00	0.027280	.5996	36657127.03
14S5912300	Integrated Circuit	U55	Telcordia Issue 1	Level I		1.00	0.027280	.1499	36657127.03
14S5A12509	Integrated Circuit	U74	Telcordia Issue 1	Level I		1.00	0.062478	.3433	16005690.99
14S5A12506	Integrated Circuit	U73	Telcordia Issue 1	Level I		1.00	0.027280	.1499	36657127.03
14S4048502	Integrated Circuit	U45,U72	Telcordia Issue 1	Level I		2.00	0.062478	.6866	16005690.99
14S3089200	Integrated Circuit	U51	Telcordia Issue 1	Level I	33.60	1.00	0.159704	.8775	6261597.75
14S6334607	Integrated Circuit	U67	Telcordia Issue 1	Level I		1.00	0.024146	.1327	41415496.92
14S2200900	Integrated Circuit	U41	Telcordia Issue 1	Level I		1.00	0.062478	.3433	16005690.99
14S4QM6700	Integrated Circuit	U27	Telcordia Issue 1	Level I	16.30	1.00	0.067392	.3703	14838660.67
14S4121601	Integrated Circuit	U10	Telcordia Issue 1	Level I		1.00	0.027280	.1499	36657127.03
14S9620800	Integrated Circuit	U42	Telcordia Issue 1	Level I		1.00	0.027280	.1499	36657127.03
14S4872800	Semiconductor	U11	Telcordia Issue 1	Level I		1.00	0.162434	.8925	6156338.80

AAEON Reliability Prediction Report

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Reference Des
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Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.70



Description
File Name AIS-E1.RPJ
Time 13:35
Failure Rate 18.198983
MTBF 54,948

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S4195710	Integrated Circuit	U54	Telcordia Issue 1	Level I		1.00	0.062478	.3433	16005690.99
14S9144200	Integrated Circuit	U43,U44	Telcordia Issue 1	Level I		2.00	0.027280	.2998	36657127.03
14S3052400	Integrated Circuit	U47,U48,U49,U50	Telcordia Issue 1	Level I		4.00	0.062478	1.3732	16005690.99
14S4811102	Integrated Circuit	U38	Telcordia Issue 1	Level I		1.00	0.027280	.1499	36657127.03
14S3111600	Integrated Circuit	U8	Telcordia Issue 1	Level I		1.00	0.033677	.1850	29693680.38
14S4257900	Integrated Circuit	U39	Telcordia Issue 1	Level I		1.00	0.027280	.1499	36657127.03
1231332722	Miscellaneous	Y1	Telcordia Issue 1	Level I		1.00	0.150000	.8242	6666666.67
123132505D	Miscellaneous	Y2,Y3,Y4	Telcordia Issue 1	Level I		3.00	0.150000	2.4727	6666666.67
1651609883	Connection	U26	Telcordia Issue 1	Level I	21.10	1.00	0.003289	.0181	304006232.11
14S4622800	Integrated Circuit	U9	Telcordia Issue 1	Level I		1.00	0.062478	.3433	16005690.99
1211103370	Inductor	L2,L4	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
1301003440	Semiconductor	D22,D23	Telcordia Issue 1	Level I		2.00	0.024365	.2678	41042258.69
14S3587000	Integrated Circuit	U20,U32	Telcordia Issue 1	Level I		2.00	0.062478	.6866	16005690.99
1211000180	Inductor	L3	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
1189633184	Capacitor	C338,C357,C358, C449,EC18,EC19, EC20	Telcordia Issue 1	Level I		7.00	0.004598	.1769	217490326.72
1211106872	Inductor	L13,L6	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
1211105673	Inductor	L1	Telcordia Issue 1	Level I		1.00	0.087360	.4800	11446859.30
14S3121800	Integrated Circuit	U17	Telcordia Issue 1	Level I		1.00	0.062478	.3433	16005690.99
1189647180	Capacitor	EC21,EC22,EC23, EC24,EC25	Telcordia Issue 1	Level I		5.00	0.004598	.1263	217490326.72
1315482110	Semiconductor	U12,U15,U16	Telcordia Issue 1	Level I		3.00	0.081217	1.3388	12312677.61
1314895510	Integrated Circuit	U28	Telcordia Issue 1	Level I	30.90	1.00	0.480011	2.6376	2083285.93
1315441012	Semiconductor	Q14	Telcordia Issue 1	Level I		1.00	0.081217	.4463	12312677.61
1122522890	Capacitor	C126,C201,C315, C356,C390,C84	Telcordia Issue 1	Level I		6.00	0.004598	.1516	217490326.72
1124468090	Capacitor	C430	Telcordia Issue 1	Level I		1.00	0.004598	.0253	217490326.72
11E9547680	Capacitor	C265,C266,C267, C268,C269,C360	Telcordia Issue 1	Level I		6.00	0.004598	.1516	217490326.72
11E1547090	Capacitor	C239,C240	Telcordia Issue 1	Level I		2.00	0.004598	.0505	217490326.72
1124582880	Capacitor	C135,C44,C54	Telcordia Issue 1	Level I		3.00	0.004598	.0758	217490326.72
1124522290	Capacitor	C125	Telcordia Issue 1	Level I		1.00	0.004598	.0253	217490326.72
11E1510050	Capacitor	C176,C177,C86,C87, TC11,TC12,TC21, TC22,TC24,TC25, TC27,TC28,TC3,TC34, TC4,TC43	Telcordia Issue 1	Level I		16.00	0.004598	.4042	217490326.72
11E1647650	Capacitor	C164,C183,C188, C235,C236,C237, C238,C459	Telcordia Issue 1	Level I		8.00	0.004598	.2021	217490326.72
11E9622080	Capacitor	C395,C410	Telcordia Issue 1	Level I		2.00	0.004598	.0505	217490326.72
11C4501790	Capacitor	C195	Telcordia Issue 1	Level I		1.00	0.004598	.0253	217490326.72

AAEON Reliability Prediction Report

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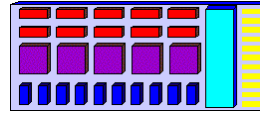


Description
File Name AIS-E1.RPJ
Time 13:35
Failure Rate 18.198983
MTBF 54,948

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S2083600	Integrated Circuit	U36	Telcordia Issue 1	Level I		1.00	0.027280	.1499	36657127.03
1181610180	Capacitor	EC7	Telcordia Issue 1	Level I		1.00	0.004598	.0253	217490326.72
1212306030	Resistor	FB1,FB11,FB2,FB22,FB24,FB25,FB26,FB7, FB9	Telcordia Issue 1	Level I		9.00	0.011802	.5837	84728974.06
105A566513	Resistor	R11,R20	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
105A702263	Resistor	R14,R36,R574,R575, R624,R653	Telcordia Issue 1	Level I		6.00	0.002299	.0758	434980653.44
1050507530	Resistor	R16,R19,R71	Telcordia Issue 1	Level I		3.00	0.002299	.0379	434980653.44
105A575003	Resistor	R21	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
1050505164	Resistor	R27	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
1050548714	Resistor	R85	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
105A535713	Resistor	R766,R798	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
105A503333	Resistor	R42,R572	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
105A504723	Resistor	R503	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
1050520034	Resistor	R673,R97	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
105A503039	Resistor	R106,R646,R838	Telcordia Issue 1	Level I		3.00	0.002299	.0379	434980653.44
1050700002	Resistor	R111	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
1050514324	Resistor	R126	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
1050584514	Resistor	R137,R138	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
1059501001	Resistor	R204	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
1050501234	Resistor	R234,R238,R692	Telcordia Issue 1	Level I		3.00	0.002299	.0379	434980653.44
105A510213	Resistor	R235,R811	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
1050532414	Resistor	R387	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
105A580623	Resistor	R237	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
105A566519	Resistor	R239,R240	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
105A502039	Resistor	R243,R649,R839	Telcordia Issue 1	Level I		3.00	0.002299	.0379	434980653.44
105A700239	Resistor	R280	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
1050538314	Resistor	R299,R339	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
1050527424	Resistor	R300,R340	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
1050540224	Resistor	R302,R844	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
1050505633	Resistor	R308	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
105A715003	Resistor	R389,R394	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
105A501533	Resistor	R491,R492,R849	Telcordia Issue 1	Level I		3.00	0.002299	.0379	434980653.44
105A705139	Resistor	R524,R525,R537, R538,R918,R919	Telcordia Issue 1	Level I		6.00	0.002299	.0758	434980653.44
1054700289	Resistor	R534	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
105A544213	Resistor	R566	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
105A522123	Resistor	R573	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44

AAEON Reliability Prediction Report

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Description
File Name AIS-E1.RPJ
Time 13:35
Failure Rate 18.198983
MTBF 54,948

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
165320520C	Connection	COM1,COM3,COM4, COM5,COM6,DIO1, USB3,USB4	Telcordia Issue 1	Level I		8.00	0.005901	.2594	169457948.12
1211104760	Inductor	L18	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
105A547513	Resistor	R37,R41	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
105A538303	Resistor	R253	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
105A527413	Resistor	R823	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
105A549903	Resistor	R810,R860	Telcordia Issue 1	Level I		2.00	0.002299	.0253	434980653.44
11A4447190	Capacitor	C141,C469	Telcordia Issue 1	Level I		2.00	0.004598	.0505	217490326.72
11C4515190	Capacitor	C130,C175	Telcordia Issue 1	Level I		2.00	0.004598	.0505	217490326.72
105A551103	Resistor	R348	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
105A537413	Resistor	R846	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
14S6206402	Integrated Circuit		Telcordia Issue 1	Level I		1.00	0.027280	.1499	36657127.03
16515A2992	Connection	DIMM2	Telcordia Issue 1	Level I		1.00	0.001180	.0065	847289740.62
16515A2994	Connection	DIMM1	Telcordia Issue 1	Level I		1.00	0.001180	.0065	847289740.62
1301005444	Semiconductor	D2,D3,D4	Telcordia Issue 1	Level I		3.00	0.024365	.4016	41042258.69
1315013810	Semiconductor	Q28	Telcordia Issue 1	Level I		1.00	0.081217	.4463	12312677.61
1050501054	Resistor	R231	Telcordia Issue 1	Level I		1.00	0.002299	.0126	434980653.44
1752011001	Miscellaneous	FS2,FS3	Telcordia Issue 1	Level I		2.00	0.003000	.0330	33333333.33
175011901C	Miscellaneous	BAT1	Telcordia Issue 1	Level I		1.00	0.900000	4.9453	1111111.11
1655902030	Connection	BAT1	Telcordia Issue 1	Level I		1.00	0.001180	.0065	847289740.62
175910000B	Miscellaneous	BZ1	Telcordia Issue 1	Level I		1.00	0.150000	.8242	6666666.67
1654439501	Connection	CN1	Telcordia Issue 1	Level I		1.00	0.023015	.1265	43450755.93
1655305020	Connection	CN12	Telcordia Issue 1	Level I		1.00	0.002951	.0162	338915896.25
1654434300	Connection	CN13	Telcordia Issue 1	Level I		1.00	0.001180	.0065	847289740.62
1655404020	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.002360	.0130	423644870.31
1169656191	Capacitor	C132,C145	Telcordia Issue 1	Level I		2.00	0.005491	.0603	182129018.98
1655004014	Connection	FAN1,FAN2	Telcordia Issue 1	Level I		2.00	0.001180	.0130	847289740.62
1653003101	Connection	JP1,JP2,JP3,JP4, JP5,JP7	Telcordia Issue 1	Level I		6.00	0.001770	.0584	564859827.08
1653003201	Connection	JP6	Telcordia Issue 1	Level I		1.00	0.001180	.0065	847289740.62
1654612307	Connection	KM1	Telcordia Issue 1	Level I		1.00	0.001180	.0065	847289740.62
1652522208	Connection	USB LAN1,USB LAN2	Telcordia Issue 1	Level I		2.00	0.023605	.2594	42364487.03
165490700C	Connection	SATA1,SATA2	Telcordia Issue 1	Level I		2.00	0.001180	.0130	847289740.62
1189656194	Capacitor	EC2,EC4,EC5,EC6, EC8	Telcordia Issue 1	Level I		5.00	0.004598	.1263	217490326.72
1181610192	Capacitor	EC1,EC10,EC13,EC14, EC26,EC3	Telcordia Issue 1	Level I		6.00	0.004598	.1516	217490326.72
1652517205	Connection	AUDIO1	Telcordia Issue 1	Level I		1.00	0.001180	.0065	847289740.62
1654232200	Connection	CN9	Telcordia Issue 1	Level I		1.00	0.037767	.2075	26477804.39

AAEON Reliability Prediction Report

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Description
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Time 13:35
Failure Rate 18.198983
MTBF 54,948

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1655004011	Connection	PWR1,PWR2	Telcordia Issue 1	Level I		2.00	0.023605	.2594	42364487.03
1119622196	Capacitor	C196,C197,C222, C223	Telcordia Issue 1	Level I		4.00	0.073765	1.6213	13556635.85
1654907002	Connection	SATA3,SATA4	Telcordia Issue 1	Level I		2.00	0.004131	.0454	242082783.03