

AEC-6613

Reliability Prediction Report

(MTBF)

Summary	Failure Rate: 17.601645 ppm MTBF: 56,813 Hours
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Issue date	Approval	Test Engineer
2012/02/15	Jansin Lee	Jessica Chou

Reliability Prediction (MTBF)

I . Model Name: AEC-6613

II . Prediction Date: Feb. 15, 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: 25.5 degrees C
- Standard: Telcordia (Bellcore) Standard

VII. Term and Definition:

- Unit : An assembly of device.
- Duty Cycle : Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure rate is to be calculated based the selected Calculation models. The multiplier is 1,000,000.
- MTBF : MTBF is always specified in hours.

VIII. Prediction Result:

TF-AEC-6613-A1-1010:

- Failure Rate: 17.601645ppm

- MTBF: 56,813 Hours

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 02. 15, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.50

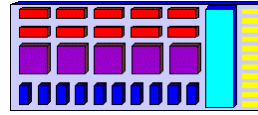


Description Top-level assembly
File Name AEC-6613.RPJ
Time 11:14
Failure Rate 17.601645
MTBF 56,813

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-AEC-6613-A1-1010	System	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	17.60	56812.87
ASS'Y GENE-CV05-A10	9697CV050A-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	17.60	56816.64

AAEON Reliability Prediction Report

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Description Top-level assembly
File Name AEC-6613.RPJ
Time 11:14
Failure Rate 17.601645
MTBF 56,813

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1602606D00	Connection		Telcordia Issue 1	Level I		1.00	0.001168	100.0000	856155154.00

AAEON Reliability Prediction Report

Part Number 9697CV050A-D
Reference Des
Date 02. 15, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.50



Description
File Name AEC-6613.RPJ
Time 11:14
Failure Rate 17.600477
MTBF 56,817

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
16515A2990	Connection	DIMM1	Telcordia Issue 1	Level I		1.00	0.001168	.0066	856155154.00
1653924110	Connection	CFD1A	Telcordia Issue 1	Level I		1.00	0.001168	.0066	856155154.00
1214309008	Inductor	CH1,CH2,CH3,CH4, CH5,CH6	Telcordia Issue 1	Level I		6.00	0.002290	.0781	436681847.68
1214309009	Inductor	CH10,CH7,CH8,CH9	Telcordia Issue 1	Level I		4.00	0.002290	.0520	436681847.68
165320520G	Connection	CN7	Telcordia Issue 1	Level I		1.00	0.005840	.0332	171231030.80
1653212100	Connection	CN17	Telcordia Issue 1	Level I		1.00	0.007008	.0398	142692525.67
1655909032	Connection	CN20	Telcordia Issue 1	Level I		1.00	0.005256	.0299	190256700.89
1654030003	Connection	CN22,CN27	Telcordia Issue 1	Level I		2.00	0.017520	.1991	57077010.27
1654903901	Connection	CN34	Telcordia Issue 1	Level I		1.00	0.001168	.0066	856155154.00
1174522180	Capacitor	CP1,CP10,CP11,CP12, CP13,CP2,CP3,CP4, CP5,CP6,CP7,CP8, CP9	Telcordia Issue 1	Level I		13.00	0.005483	.4050	182366143.54
11E9501091	Capacitor	C1,C109,C116,C118, C138,C140,C141, C188,C189,C197,C20, C211,C212,C213, C214,C215,C216, C217,C234,C246, C254,C258,C259, C265,C266,C267, C271,C272,C278, C280,C282,C29,C305, C308,C309,C311, C312,C320,C323, C326,C327,C328,	Telcordia Issue 1	Level I		63.00	0.004580	1.6394	218340923.84
11E9510050	Capacitor	C146,C147,C169, C170,C2,C23,C237, C243,C361,C362, C364,C368,C4,C407, C419,C447,C452, C454,C475,C57,C70	Telcordia Issue 1	Level I		21.00	0.004580	.5465	218340923.84
11C4401880	Capacitor	C3	Telcordia Issue 1	Level I		1.00	0.004580	.0260	218340923.84

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Description
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Time 11:14
Failure Rate 17.600477
MTBF 56,817

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1121501691	Capacitor	C101,C102,C104, C105,C106,C108,C11, C111,C112,C115, C119,C120,C121, C122,C123,C124, C125,C126,C127, C128,C129,C13,C130, C131,C132,C133, C134,C135,C136, C139,C14,C143,C144, C148,C149,C15,C150, C151,C152,C153, C154,C155,C156,	Telcordia Issue 1	Level I		213.00	0.004580	5.5427	218340923.84
11E2522060	Capacitor	C270,C6	Telcordia Issue 1	Level I		2.00	0.004580	.0520	218340923.84
11E1510050	Capacitor	C177,C226,C235,C27, C9	Telcordia Issue 1	Level I		5.00	0.004580	.1301	218340923.84
1122701680	Capacitor	C10	Telcordia Issue 1	Level I		1.00	0.004580	.0260	218340923.84
11C2510480	Capacitor	C12,C22,C244,C248, C256,C262	Telcordia Issue 1	Level I		6.00	0.004580	.1561	218340923.84
1124468090	Capacitor	C16,C39	Telcordia Issue 1	Level I		2.00	0.004580	.0520	218340923.84
1129622690	Capacitor	C103,C17,C299,C353, C43,C44,C77,C80, C81,C84	Telcordia Issue 1	Level I		10.00	0.004580	.2602	218340923.84
11C4522190	Capacitor	C166,C18,C49	Telcordia Issue 1	Level I		3.00	0.004580	.0781	218340923.84
11E1522680	Capacitor	C252,C32	Telcordia Issue 1	Level I		2.00	0.004580	.0520	218340923.84
1124427091	Capacitor	C167,C168,C190, C192,C193,C194, C387,C40,C42,C463, C464	Telcordia Issue 1	Level I		11.00	0.004580	.2862	218340923.84
11E9610080	Capacitor	C157,C219,C249, C261,C279,C281, C293,C295,C300, C333,C336,C352, C356,C366,C369, C375,C376,C397, C399,C400,C434, C443,C45,C457,C460, C481,C54,C67,C68, C76,C78,C83,C88, C90	Telcordia Issue 1	Level I		34.00	0.004580	.8847	218340923.84
1129701791	Capacitor	C110,C114,C163, C184,C185,C198, C200,C232,C238, C239,C241,C242,C52, C58,C59,C60,C61	Telcordia Issue 1	Level I		17.00	0.004580	.4424	218340923.84
1124418090	Capacitor	C92,C97	Telcordia Issue 1	Level I		2.00	0.004580	.0520	218340923.84

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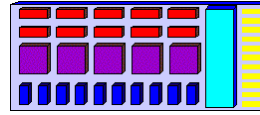


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MTBF 56,817

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
11E9622050	Capacitor	C315,C319,C322, C325,C346,C401, C403,C416,C420, C468,C94	Telcordia Issue 1	Level I		11.00	0.004580	.2862	218340923.84
11C2501790	Capacitor	C137,C98	Telcordia Issue 1	Level I		2.00	0.004580	.0520	218340923.84
11C4547290	Capacitor	C100,C142	Telcordia Issue 1	Level I		2.00	0.004580	.0520	218340923.84
11E9647680	Capacitor	C107,C307,C318, C358,C405,C406	Telcordia Issue 1	Level I		6.00	0.004580	.1561	218340923.84
1124410191	Capacitor	C113,C225,C472, C473,C482,C483, C484	Telcordia Issue 1	Level I		7.00	0.004580	.1822	218340923.84
11C2539290	Capacitor	C117	Telcordia Issue 1	Level I		1.00	0.004580	.0260	218340923.84
1129710391	Capacitor	C159,C182,C209, C453,C474	Telcordia Issue 1	Level I		5.00	0.004580	.1301	218340923.84
1124547190	Capacitor	C171,C172,C174, C201,C202,C203, C204,C205,C206, C274,C321,C448, C458	Telcordia Issue 1	Level I		13.00	0.004580	.3383	218340923.84
11C1547890	Capacitor	C175,C183	Telcordia Issue 1	Level I		2.00	0.004580	.0520	218340923.84
1122522890	Capacitor	C191,C410,C411, C427	Telcordia Issue 1	Level I		4.00	0.004580	.1041	218340923.84
1129522790	Capacitor	C218,C221,C222	Telcordia Issue 1	Level I		3.00	0.004580	.0781	218340923.84
11C4547760	Capacitor	C231	Telcordia Issue 1	Level I		1.00	0.004580	.0260	218340923.84
1124510280	Capacitor	C247,C269	Telcordia Issue 1	Level I		2.00	0.004580	.0520	218340923.84
11C9501050	Capacitor	C257	Telcordia Issue 1	Level I		1.00	0.004580	.0260	218340923.84
1129710091	Capacitor	C276,C277,C445, C465,C466,C467	Telcordia Issue 1	Level I		6.00	0.004580	.1561	218340923.84
11E9722090	Capacitor	C424,C438,C469, C470,C471	Telcordia Issue 1	Level I		5.00	0.004580	.1301	218340923.84
1301005444	Semiconductor	D1,D16,D4,D5,D6	Telcordia Issue 1	Level I		5.00	0.024226	.6882	41277895.16
1304101340	Semiconductor	D2	Telcordia Issue 1	Level I		1.00	0.005104	.0290	195913336.05
1304001340	Semiconductor	D3	Telcordia Issue 1	Level I		1.00	0.005104	.0290	195913336.05
1304300140	Semiconductor	D10,D7	Telcordia Issue 1	Level I		2.00	0.005104	.0580	195913336.05
1301005442	Semiconductor	D18,D28,D8	Telcordia Issue 1	Level I		3.00	0.024226	.4129	41277895.16
1305080040	Semiconductor	D13,D17,D19,D20, D21,D22,D23,D24, D25,D26,D27,D29, D30,D31,D32,D33, D34,D37,D38,D39, D40,D42,D43,D44, D45,D47,D49,D50, D51,D52,D53,D54, D55	Telcordia Issue 1	Level I		33.00	0.024226	4.5423	41277895.16
1301053040	Semiconductor	D14	Telcordia Issue 1	Level I		1.00	0.024226	.1376	41277895.16
1305099140	Semiconductor	D35,D36	Telcordia Issue 1	Level I		2.00	0.080753	.9176	12383368.55

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Temp. (°C) 25.50



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Time 11:14
Failure Rate 17.600477
MTBF 56,817

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1301005441	Semiconductor	D41	Telcordia Issue 1	Level I		1.00	0.027480	.1561	36390153.97
1301005443	Semiconductor	D48	Telcordia Issue 1	Level I		1.00	0.027480	.1561	36390153.97
1212306030	Resistor	FB1,FB10,FB12,FB13,FB14,FB15,FB16,FB17,FB18,FB19,FB2,FB20,FB21,FB22,FB23,FB29,FB3,FB30,FB4,FB6,FB9	Telcordia Issue 1	Level I		21.00	0.011680	1.3936	85615515.40
1212306031	Inductor	FB5	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
1212306035	Inductor	FB11,FB25,FB26,FB27,FB28,FB31,FB32,FB33,FB34,FB35,FB37,FB38,FB39,FB7,FB8	Telcordia Issue 1	Level I		15.00	0.002290	.1952	436681847.68
1212308054	Resistor	FB24,FB36	Telcordia Issue 1	Level I		2.00	0.011680	.1327	85615515.40
1752001601	Miscellaneous	FS1,FS3	Telcordia Issue 1	Level I		2.00	0.003000	.0341	333333333.33
1752000501	Miscellaneous	FS2	Telcordia Issue 1	Level I		1.00	0.003000	.0170	333333333.33
121110156K	Inductor	L3,L4,L5	Telcordia Issue 1	Level I		3.00	0.087020	1.4833	11491627.57
121110156K	Inductor	L1	Telcordia Issue 1	Level I	15.80	1.00	0.116652	.6628	8572518.54
121110336Y	Inductor	L2	Telcordia Issue 1	Level I	33.10	1.00	0.155717	.8847	6421889.33
121110226K	Inductor	L6	Telcordia Issue 1	Level I		1.00	0.087020	.4944	11491627.57
121110106M	Inductor	L7	Telcordia Issue 1	Level I	44.20	1.00	0.184568	1.0487	5418071.86
1211100113	Inductor	L10,L12,L8	Telcordia Issue 1	Level I		3.00	0.002290	.0390	436681847.68
1211100160	Inductor	L14	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
121110476Q	Inductor	L15,L16	Telcordia Issue 1	Level I		2.00	0.087020	.9888	11491627.57
1654226303	Connection	PCIE1A	Telcordia Issue 1	Level I		1.00	0.001168	.0066	856155154.00
1654926900	Connection	PCIE1B	Telcordia Issue 1	Level I		1.00	0.030368	.1725	32929044.38
1315700216	Semiconductor	Q1,Q10,Q11,Q14,Q15,Q22,Q23,Q25,Q30,Q31,Q32,Q33,Q35,Q37,Q39,Q4,Q40,Q41,Q42,Q44,Q45,Q48,Q5,Q6,Q8	Telcordia Issue 1	Level I		25.00	0.080753	11.4704	12383368.55
1311071710	Semiconductor	Q2	Telcordia Issue 1	Level I		1.00	0.024226	.1376	41277895.16
1315030110	Semiconductor	Q3,Q7	Telcordia Issue 1	Level I		2.00	0.000000	.0000	.00
1315762010	Semiconductor	Q12,Q9	Telcordia Issue 1	Level I		2.00	0.000000	.0000	.00
1315230410	Semiconductor	Q13	Telcordia Issue 1	Level I		1.00	0.161507	.9176	6191684.27
1311390612	Semiconductor	Q16,Q21,Q43	Telcordia Issue 1	Level I		3.00	0.024226	.4129	41277895.16
1310390413	Semiconductor	Q17,Q18,Q19,Q20,Q34,Q36,Q38,Q46	Telcordia Issue 1	Level I		8.00	0.024226	1.1012	41277895.16
1315013810	Semiconductor	Q24,Q26	Telcordia Issue 1	Level I		2.00	0.080753	.9176	12383368.55
1315700212	Semiconductor	Q27,Q28,Q29	Telcordia Issue 1	Level I		3.00	0.080753	1.3764	12383368.55

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Temp. (°C) 25.50



Description
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Time 11:14
Failure Rate 17.600477
MTBF 56,817

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A700139	Resistor	R100,R149,R15,R169, R183,R184,R187, R229,R260,R264, R272,R277,R29,R307, R308,R310,R311, R317,R326,R330, R334,R347,R35,R353, R359,R361,R407, R410,R417,R42,R420, R45,R46,R47,R48, R480,R491,R521,R54, R561,R615,R622,R74, R78,R79,R82,R86	Telcordia Issue 1	Level I		49.00	0.002290	.6375	436681847.68
105A702229	Resistor	R134,R143,R144, R145,R157,R164, R165,R17,R246,R287, R319,R324,R380, R381,R484,R485, R486,R487,R488, R489,R490,R508, R565,R81,R91,R92	Telcordia Issue 1	Level I		26.00	0.002290	.3383	436681847.68
1050510034	Resistor	R116,R138,R18,R286, R309,R354,R368, R395,R441,R452, R457,R471,R476, R610,R623,R628,R71, R84,R88	Telcordia Issue 1	Level I		19.00	0.002290	.2472	436681847.68
105A701059	Resistor	R127,R217,R24,R242, R297,R302,R31,R392, R404,R596,R621, R627,R638	Telcordia Issue 1	Level I		13.00	0.002290	.1691	436681847.68
105A705139	Resistor	R121,R28,R401,R402, R403,R464,R465, R466,R479,R482,R49, R504,R505,R511, R512,R517,R518, R519,R522,R569	Telcordia Issue 1	Level I		20.00	0.002290	.2602	436681847.68
1050702734	Resistor	R30	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
105A560423	Resistor	R32	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
105A502039	Resistor	R34,R362,R393	Telcordia Issue 1	Level I		3.00	0.002290	.0390	436681847.68
1050504764	Resistor	R108,R36	Telcordia Issue 1	Level I		2.00	0.002290	.0260	436681847.68
1050547004	Resistor	R331,R333,R37,R540, R543	Telcordia Issue 1	Level I		5.00	0.002290	.0651	436681847.68
105A561933	Resistor	R39	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68

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105A739039	Resistor	R40	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
105A708229	Resistor	R106,R117,R177, R179,R327,R429, R430,R431,R432, R433,R434,R435, R440,R458,R467,R52, R55,R56,R57,R58, R59,R60,R61,R62, R63,R64,R65,R66, R67,R68	Telcordia Issue 1	Level I		30.00	0.002290	.3903	436681847.68
105A512039	Resistor	R69	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
105A704739	Resistor	R72	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
105A500239	Resistor	R73	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
1050513034	Resistor	R124,R444,R77	Telcordia Issue 1	Level I		3.00	0.002290	.0390	436681847.68
105A500139	Resistor	R173,R182,R234, R237,R398,R422,R87, R95	Telcordia Issue 1	Level I		8.00	0.002290	.1041	436681847.68
1050524904	Resistor	R201,R89	Telcordia Issue 1	Level I		2.00	0.002290	.0260	436681847.68
105A522669	Resistor	R101,R205	Telcordia Issue 1	Level I		2.00	0.002290	.0260	436681847.68
105A703329	Resistor	R102,R549	Telcordia Issue 1	Level I		2.00	0.002290	.0260	436681847.68
1050561934	Resistor	R107	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
1050590964	Resistor	R111,R118,R172, R174	Telcordia Issue 1	Level I		4.00	0.002290	.0520	436681847.68
105A704763	Resistor	R115,R439	Telcordia Issue 1	Level I		2.00	0.002290	.0260	436681847.68
105A551119	Resistor	R122	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
105A501529	Resistor	R125	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
105A505629	Resistor	R135,R21,R416,R438, R463	Telcordia Issue 1	Level I		5.00	0.002290	.0651	436681847.68
105A505109	Resistor	R142,R163,R167, R171,R181,R186	Telcordia Issue 1	Level I		6.00	0.002290	.0781	436681847.68
105A561924	Resistor	R156	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
1050502204	Resistor	R158,R161	Telcordia Issue 1	Level I		2.00	0.002290	.0260	436681847.68
105A560469	Resistor	R162,R190	Telcordia Issue 1	Level I		2.00	0.002290	.0260	436681847.68
105A533269	Resistor	R193	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
105A527403	Resistor	R199	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
105A507509	Resistor	R206,R386,R387, R388	Telcordia Issue 1	Level I		4.00	0.002290	.0520	436681847.68
1050507524	Resistor	R214,R276	Telcordia Issue 1	Level I		2.00	0.002290	.0260	436681847.68
105A568103	Resistor	R216	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
105A515009	Resistor	R220,R223,R226, R635,R636,R637	Telcordia Issue 1	Level I		6.00	0.002290	.0781	436681847.68
1050501004	Resistor	R221,R415,R436, R548	Telcordia Issue 1	Level I		4.00	0.002290	.0520	436681847.68
105A523713	Resistor	R230	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68

AAEON Reliability Prediction Report

Part Number 9697CV050A-D
Reference Des
Date 02. 15, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.50



Description
File Name AEC-6613.RPJ
Time 11:14
Failure Rate 17.600477
MTBF 56,817

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A703363	Resistor	R236	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
105A528723	Resistor	R238	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
1059700001	Resistor	R241,R318,R325	Telcordia Issue 1	Level I		3.00	0.002290	.0390	436681847.68
1050507530	Resistor	R244,R267	Telcordia Issue 1	Level I		2.00	0.002290	.0260	436681847.68
105A706829	Resistor	R245,R248,R252, R281,R285,R531, R601,R606,R612	Telcordia Issue 1	Level I		9.00	0.002290	.1171	436681847.68
1050512104	Resistor	R254	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
1050505124	Resistor	R259,R360,R446	Telcordia Issue 1	Level I		3.00	0.002290	.0390	436681847.68
105A573223	Resistor	R273,R406	Telcordia Issue 1	Level I		2.00	0.002290	.0260	436681847.68
105A501233	Resistor	R278,R575	Telcordia Issue 1	Level I		2.00	0.002290	.0260	436681847.68
105A501539	Resistor	R294,R296,R585	Telcordia Issue 1	Level I		3.00	0.002290	.0390	436681847.68
1050514034	Resistor	R328,R613,R614, R624	Telcordia Issue 1	Level I		4.00	0.002290	.0520	436681847.68
105A524919	Resistor	R345,R346	Telcordia Issue 1	Level I		2.00	0.002290	.0260	436681847.68
105A722009	Resistor	R350,R351,R366, R367	Telcordia Issue 1	Level I		4.00	0.002290	.0520	436681847.68
105A540213	Resistor	R355	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
105A505163	Resistor	R356	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
105A702263	Resistor	R373,R449,R483	Telcordia Issue 1	Level I		3.00	0.002290	.0390	436681847.68
105A703909	Resistor	R382,R383	Telcordia Issue 1	Level I		2.00	0.002290	.0260	436681847.68
105A561909	Resistor	R405	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
1059710003	Resistor	R418,R419	Telcordia Issue 1	Level I		2.00	0.002290	.0260	436681847.68
105A501413	Resistor	R423	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
1050505633	Resistor	R424	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
1050501834	Resistor	R443	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
1050522114	Resistor	R453	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
1050703334	Resistor	R460	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
105A747039	Resistor	R492	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
105A701069	Resistor	R499	Telcordia Issue 1	Level I		1.00	0.013740	.0781	72780307.95
105A549969	Resistor	R196,R207,R509, R510	Telcordia Issue 1	Level I		4.00	0.002290	.0520	436681847.68
105A503039	Resistor	R527	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
1050700002	Resistor	R592	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
1189633193	Capacitor	TC1,TC11,TC3,TC6, TC8	Telcordia Issue 1	Level I		5.00	0.004580	.1301	218340923.84
1189633160	Capacitor	TC17,TC2,TC4,TC5	Telcordia Issue 1	Level I		4.00	0.004580	.1041	218340923.84
1189615151	Capacitor	TC12,TC15,TC18, TC19,TC7	Telcordia Issue 1	Level I		5.00	0.004580	.1301	218340923.84
1189627150	Capacitor	TC10,TC14,TC16,TC9	Telcordia Issue 1	Level I		4.00	0.004580	.1041	218340923.84
1182622080	Capacitor	TC13	Telcordia Issue 1	Level I		1.00	0.004580	.0260	218340923.84
14S5A00821	Integrated Circuit	U1,U25,U34,U46,U50, U6	Telcordia Issue 1	Level I		6.00	0.026962	.9191	37088905.56

AAEON Reliability Prediction Report

Part Number 9697CV050A-D
Reference Des
Date 02. 15, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
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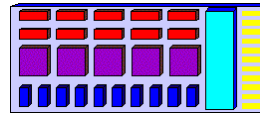


Description
File Name AEC-6613.RPJ
Time 11:14
Failure Rate 17.600477
MTBF 56,817

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
14S4021301	Integrated Circuit	U11,U14,U18,U2,U23, U71	Telcordia Issue 1	Level I		6.00	0.061574	2.0991	16240641.01
1315667910	Semiconductor	U3	Telcordia Issue 1	Level I		1.00	0.161507	.9176	6191684.27
1315970211	Semiconductor	U15,U5,U64	Telcordia Issue 1	Level I		3.00	0.161507	2.7529	6191684.27
14S4001000	Integrated Circuit	U7	Telcordia Issue 1	Level I	18.10	1.00	0.073279	.4163	13646490.84
1315482110	Semiconductor	U36,U8,U9	Telcordia Issue 1	Level I		3.00	0.080753	1.3764	12383368.55
14S2321900	Semiconductor	U10	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
14S5A73200	Integrated Circuit	U12	Telcordia Issue 1	Level I		1.00	0.026962	.1532	37088905.56
14S3050100	Integrated Circuit	U13	Telcordia Issue 1	Level I	39.90	1.00	0.801408	4.5533	1247803.58
14S4213000	Integrated Circuit	U17	Telcordia Issue 1	Level I	30.30	1.00	0.135110	.7677	7401363.28
1315446310	Semiconductor	U19,U43,U47,U48	Telcordia Issue 1	Level I		4.00	0.080753	1.8353	12383368.55
14S2362400	Integrated Circuit	U20	Telcordia Issue 1	Level I		1.00	0.061574	.3498	16240641.01
14S4878300	Integrated Circuit	U21	Telcordia Issue 1	Level I		1.00	0.026962	.1532	37088905.56
14S3112400	Integrated Circuit	U22	Telcordia Issue 1	Level I		1.00	0.061574	.3498	16240641.01
14S5A00601	Integrated Circuit	U24	Telcordia Issue 1	Level I		1.00	0.026962	.1532	37088905.56
14S5A12506	Integrated Circuit	U26	Telcordia Issue 1	Level I		1.00	0.026962	.1532	37088905.56
14S5A12503	Integrated Circuit	U27	Telcordia Issue 1	Level I		1.00	0.061574	.3498	16240641.01
1315422410	Semiconductor	U28,U55,U60	Telcordia Issue 1	Level I		3.00	0.080753	1.3764	12383368.55
14S9751100	Integrated Circuit	U29	Telcordia Issue 1	Level I	33.30	1.00	0.155967	.8862	6411602.33
14S4600004	Integrated Circuit	U30	Telcordia Issue 1	Level I		1.00	0.026962	.1532	37088905.56
14S9341101	Integrated Circuit	U31	Telcordia Issue 1	Level I	28.60	1.00	0.124409	.7069	8038005.19
14S4811102	Integrated Circuit	U32,U33	Telcordia Issue 1	Level I		2.00	0.026962	.3064	37088905.56
14S3524700	Integrated Circuit	U35	Telcordia Issue 1	Level I		1.00	0.061574	.3498	16240641.01
14S3524701	Integrated Circuit	U37	Telcordia Issue 1	Level I		1.00	0.061574	.3498	16240641.01
14S1230400	Integrated Circuit	U38	Telcordia Issue 1	Level I		1.00	0.061574	.3498	16240641.01
1315482410	Semiconductor	U39	Telcordia Issue 1	Level I		1.00	0.080753	.4588	12383368.55
14S3111600	Integrated Circuit	U40	Telcordia Issue 1	Level I		1.00	0.033190	.1886	30129558.53
14S2200900	Integrated Circuit	U41	Telcordia Issue 1	Level I		1.00	0.061574	.3498	16240641.01
14S3066200	Integrated Circuit	U42	Telcordia Issue 1	Level I	24.90	1.00	0.328960	1.8690	3039881.97
14S4751100	Integrated Circuit	U44	Telcordia Issue 1	Level I		1.00	0.026962	.1532	37088905.56
14S4081110	Integrated Circuit	U49	Telcordia Issue 1	Level I		1.00	0.061574	.3498	16240641.01
14S4195710	Integrated Circuit	U51	Telcordia Issue 1	Level I		1.00	0.061574	.3498	16240641.01
14S5912300	Integrated Circuit	U52	Telcordia Issue 1	Level I		1.00	0.026962	.1532	37088905.56
14S9811500	Integrated Circuit	U53	Telcordia Issue 1	Level I		1.00	0.061574	.3498	16240641.01
14S2591200	Integrated Circuit	U57	Telcordia Issue 1	Level I	33.40	1.00	0.550264	3.1264	1817310.64
14S4048503	Integrated Circuit	U58,U63	Telcordia Issue 1	Level I		2.00	0.061574	.6997	16240641.01
14S5A00704	Integrated Circuit	U59	Telcordia Issue 1	Level I		1.00	0.026962	.1532	37088905.56

AAEON Reliability Prediction Report

Part Number 9697CV050A-D
Reference Des
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Environment GF, GU - Ground Fixed, Uncontrolled
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Description
File Name AEC-6613.RPJ
Time 11:14
Failure Rate 17.600477
MTBF 56,817

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1315155510	Semiconductor	U61,U62,U65	Telcordia Issue 1	Level I		3.00	0.161507	2.7529	6191684.27
14S5A01402	Integrated Circuit	U67,U70	Telcordia Issue 1	Level I		2.00	0.026962	.3064	37088905.56
14S6336600	Integrated Circuit	U68,U69	Telcordia Issue 1	Level I		2.00	0.031803	.3614	31443516.67
123131435J	Miscellaneous	Y1	Telcordia Issue 1	Level I		1.00	0.150000	.8522	6666666.67
1231332721	Miscellaneous	Y2	Telcordia Issue 1	Level I		1.00	0.150000	.8522	6666666.67
1231327053	Miscellaneous	Y3,Y6	Telcordia Issue 1	Level I		2.00	0.150000	1.7045	6666666.67
123132505D	Miscellaneous	Y4,Y5	Telcordia Issue 1	Level I		2.00	0.150000	1.7045	6666666.67
1050515034	Resistor	R113	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
105A554969	Resistor	R204,R412	Telcordia Issue 1	Level I		2.00	0.002290	.0260	436681847.68
14S3816700	Integrated Circuit	U4	Telcordia Issue 1	Level I		1.00	0.026962	.1532	37088905.56
105A514014	Resistor	R98	Telcordia Issue 1	Level I		1.00	0.002290	.0130	436681847.68
14S6399042	Integrated Circuit	U66	Telcordia Issue 1	Level I		1.00	0.061574	.3498	16240641.01
1655902030	Connection	BAT1A,CN21,CN25	Telcordia Issue 1	Level I		3.00	0.001168	.0199	856155154.00
175011901M	Miscellaneous	BAT1B	Telcordia Issue 1	Level I		1.00	0.900000	5.1135	1111111.11
165390003B	Connection	CFD1B	Telcordia Issue 1	Level I		1.00	0.001168	.0066	856155154.00
1653005201	Connection	CN1	Telcordia Issue 1	Level I		1.00	0.005840	.0332	171231030.80
1655003022	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.001752	.0100	570770102.67
1655003010	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.001752	.0100	570770102.67
1655306020	Connection	CN4	Telcordia Issue 1	Level I		1.00	0.003504	.0199	285385051.33
1654907004	Connection	CN5	Telcordia Issue 1	Level I		1.00	0.004088	.0232	244615758.29
1655302020	Connection	CN9	Telcordia Issue 1	Level I		1.00	0.001168	.0066	856155154.00
1655905032	Connection	CN10,CN12,CN14, CN15	Telcordia Issue 1	Level I		4.00	0.023360	.5309	42807757.70
1655909031	Connection	CN11,CN13,CN16, CN18,CN19	Telcordia Issue 1	Level I		5.00	0.005256	.1493	190256700.89
1655306023	Connection	CN23	Telcordia Issue 1	Level I		1.00	0.003504	.0199	285385051.33
1655305020	Connection	CN24,CN26	Telcordia Issue 1	Level I		2.00	0.002920	.0332	342462061.60
165251420B	Connection	CN28,CN29	Telcordia Issue 1	Level I		2.00	0.001168	.0133	856155154.00
1654808309	Connection	CN30	Telcordia Issue 1	Level I		1.00	0.001168	.0066	856155154.00
1655910131	Connection	CN31	Telcordia Issue 1	Level I		1.00	0.001168	.0066	856155154.00
1654409103	Connection	CN33	Telcordia Issue 1	Level I		1.00	0.131401	.7466	7610268.04
1181627191	Capacitor	EC1	Telcordia Issue 1	Level I		1.00	0.004580	.0260	218340923.84
1653003101	Connection	JP1,JP10,JP11,JP2, JP5,JP6,JP7,JP8, JP9	Telcordia Issue 1	Level I		9.00	0.001752	.0896	570770102.67
1653003201	Connection	JP3	Telcordia Issue 1	Level I		1.00	0.001168	.0066	856155154.00
1653002101	Connection	JP4	Telcordia Issue 1	Level I		1.00	0.001168	.0066	856155154.00
175910000B	Miscellaneous	SP1	Telcordia Issue 1	Level I		1.00	0.150000	.8522	6666666.67
1654415308	Connection	CN32	Telcordia Issue 1	Level I		1.00	0.008760	.0498	114154020.53

