

AEC-6821

Reliability Prediction Report (MTBF)

Report NO : 09P070010

05-27-2009

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** TF-AEC-6821-A1-1010

II . **Prediction Date:** May 27, 2009

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:**

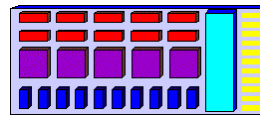
- Unit : An assembly of device.
- Duty Cycle : Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure 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-AEC-6821-A1-1010:
Failure Rate: 16.032345 ppm
MTBF: 62,374 Hours
- Below component MTBF value was provided by the supplier:
Memory: (TF)512MBDDR333SODIMM Module.PC2700,
200Pin.HY5DU121622(X)TP-D43.DSL.DDSH32162XG60AB
MTBF: 1.25*10⁶ Hour/error

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 05. 27, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

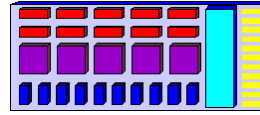


Description Top-level assembly
File Name TF-AEC-6821-A1-1010.RPJ
Time 2:22 下午
Failure Rate 16.032345
MTBF 62,374

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-AEC-6821-A1-1010	System	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	16.03	62373.91
I/O Board T118-A10	9697T11802-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	5.52	181128.01
ETX-700-A10	969770000Z-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	10.51	95145.22

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 05. 27, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name TF-AEC-6821-A1-1010.RPJ
Time 2:22 下午
Failure Rate 16.032345
MTBF 62,374

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1602606A00	Connection	ROCKER SWITCH	Telcordia Issue 1	Level I		1.00	0.001138	100.0000	878780270.71

AAEON Reliability Prediction Report

Part Number 9697T11802-D
Reference Des
Date 05. 27, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-AEC-6821-A1-1010.RPJ
Time 2:22 下午
Failure Rate 5.520957
MTBF 181,128

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1141610050	Capacitor	C63	Telcordia Issue 1	Level I		1.00	0.004535	.0821	220487045.01
1129701790	Capacitor	C50	Telcordia Issue 1	Level I		1.00	0.004535	.0821	220487045.01
1129701690	Capacitor	BC1,BC2,BC3,BC4, C10,C100,C101,C104, C109,C11,C12,C13, C14,C15,C16,C17, C18,C19,C20,C21, C22,C23,C24,C25, C26,C27,C28,C37, C38,C39,C40,C45, C46,C47,C48,C49, C53,C55,C56,C57, C58,C59,C60,C61, C64,C66,C68,C70, C71,C73,C74,C75	Telcordia Issue 1	Level I		56.00	0.004535	4.6003	220487045.01
1121701680	Capacitor	C76	Telcordia Issue 1	Level I		1.00	0.004535	.0821	220487045.01
105A700009	Resistor	R10,R102,R103,R11, R12,R13,R14,R15, R150,R16,R17,R18, R5,R6,R63,R77,R78, R8	Telcordia Issue 1	Level I		18.00	0.002268	.7393	440974090.03
105A700003	Resistor	FB2,L31,L40,L41, L45,R115,R147,R149, R155,R19,R20,R31, R32,R47,R7,R88,R9, R91,R92,R94,R95, R98	Telcordia Issue 1	Level I		22.00	0.002268	.9036	440974090.03
1059700001	Resistor	R2	Telcordia Issue 1	Level I		1.00	0.002268	.0411	440974090.03
105A500133	Resistor	R121,R152	Telcordia Issue 1	Level I		2.00	0.002268	.0821	440974090.03
105A500139	Resistor	R73,R82	Telcordia Issue 1	Level I		2.00	0.002268	.0821	440974090.03
1121701080	Capacitor	C113,C114,C115, C116,C117,C62	Telcordia Issue 1	Level I		6.00	0.004535	.4929	220487045.01
105A702223	Resistor	R145,R165	Telcordia Issue 1	Level I		2.00	0.002268	.0821	440974090.03
1310390410	Semiconductor	Q5,Q6	Telcordia Issue 1	Level I		2.00	0.023881	.8651	41874327.58
105A703329	Resistor	R76,R83,R84,R85	Telcordia Issue 1	Level I		4.00	0.002268	.1643	440974090.03
105A704723	Resistor	R1,R100,R104,R105, R110,R129,R142, R143,R151,R3,R4, R49,R96,R97,R99	Telcordia Issue 1	Level I		15.00	0.002268	.6161	440974090.03
105A508223	Resistor	R109,R21,R22,R33, R34,R43,R45	Telcordia Issue 1	Level I		7.00	0.002268	.2875	440974090.03
105A701003	Resistor	R148	Telcordia Issue 1	Level I		1.00	0.002268	.0411	440974090.03
1540710080	Resistor	RP1,RP2,RP3,RP4, RP5,RP6,RP7,RP8	Telcordia Issue 1	Level I		8.00	0.006246	.9051	160102772.00

AAEON Reliability Prediction Report

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Temp. (°C) 25.00



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File Name TF-AEC-6821-A1-1010.RPJ
Time 2:22 下午
Failure Rate 5.520957
MTBF 181,128

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A701039	Resistor	R156,R161,R162, R163,R164,R70	Telcordia Issue 1	Level I		6.00	0.002268	.2464	440974090.03
105A501033	Resistor	R112	Telcordia Issue 1	Level I		1.00	0.002268	.0411	440974090.03
1122710080	Capacitor	C110,C111,C112,C29, C30,C31,C88	Telcordia Issue 1	Level I		7.00	0.005466	.6930	182961702.19
1121610060	Capacitor	C92	Telcordia Issue 1	Level I		1.00	0.004535	.0821	220487045.01
105A501533	Resistor	R27,R28,R29,R30, R39,R40,R41,R42, R53,R54	Telcordia Issue 1	Level I		10.00	0.002268	.4107	440974090.03
1121615080	Capacitor	C97	Telcordia Issue 1	Level I		1.00	0.004535	.0821	220487045.01
105A703309	Resistor	R157,R158,R159, R160	Telcordia Issue 1	Level I		4.00	0.002268	.1643	440974090.03
1540733085	Resistor	RP88,RP89,RP90, RP91	Telcordia Issue 1	Level I		4.00	0.006246	.4525	160102772.00
105A505103	Resistor	R57,R58,R59,R60	Telcordia Issue 1	Level I		4.00	0.002268	.1643	440974090.03
1124522080	Capacitor	C54	Telcordia Issue 1	Level I		1.00	0.005466	.0990	182961702.19
1124427080	Capacitor	C51,C52	Telcordia Issue 1	Level I		2.00	0.004535	.1643	220487045.01
121230603J	Inductor	L1,L2,L32,L42,L43, L44,L46,L47,L5,L6	Telcordia Issue 1	Level I		10.00	0.002268	.4107	440974090.03
1212306035	Inductor	L12,L13,L14,L15, L16,L17,L18,L19, L20,L21,L22,L23, L24,L25,L26,L27, L28,L29,L30,L33, L38	Telcordia Issue 1	Level I		21.00	0.002268	.8626	440974090.03
1124522190	Capacitor	C105,C106,C107, C108	Telcordia Issue 1	Level I		4.00	0.004535	.3286	220487045.01
1174522180	Capacitor	CP10,CP11,CP12, CP13	Telcordia Issue 1	Level I		4.00	0.005466	.3960	182961702.19
105A503300	Resistor	R106,R107,R123, R124,R154	Telcordia Issue 1	Level I		5.00	0.002268	.2054	440974090.03
105A707503	Resistor	R50,R51,R52	Telcordia Issue 1	Level I		3.00	0.002268	.1232	440974090.03
1752001601	Miscellaneous	FS1,FS2,FS3,FS4, FS5	Telcordia Issue 1	Level I		5.00	0.003000	.2717	333333333.33
1231325058	Miscellaneous	Y1	Telcordia Issue 1	Level I		1.00	0.150000	2.7169	6666666.67
14S5A01400	Integrated Circuit	U5	Telcordia Issue 1	Level I		1.00	0.059366	1.0753	16844654.92
14S5A12506	Integrated Circuit	U7	Telcordia Issue 1	Level I		1.00	0.026183	.4742	38193355.79
1124547180	Capacitor	C32,C33,C34,C35, C36	Telcordia Issue 1	Level I		5.00	0.005466	.4950	182961702.19
1301005440	Semiconductor	D4,D7	Telcordia Issue 1	Level I		2.00	0.023881	.8651	41874327.58
1124533180	Capacitor	C90	Telcordia Issue 1	Level I		1.00	0.004535	.0821	220487045.01
1212306031	Inductor	L10,L11,L34,L35, L36,L37,L9	Telcordia Issue 1	Level I		7.00	0.002268	.2875	440974090.03
1214309000	Inductor	L3,L4,L7,L8	Telcordia Issue 1	Level I		4.00	0.002268	.1643	440974090.03
1305099140	Semiconductor	D1,D2,D3	Telcordia Issue 1	Level I		3.00	0.079603	4.3255	12562298.27
1144647680	Capacitor	C89	Telcordia Issue 1	Level I		1.00	0.004535	.0821	220487045.01
1212306030	Inductor	FB1,FB43,FB44,L39	Telcordia Issue 1	Level I		4.00	0.002268	.1643	440974090.03
1149647052	Capacitor	C65,C72	Telcordia Issue 1	Level I		2.00	0.004535	.1643	220487045.01
14S5A12503	Integrated Circuit	U3	Telcordia Issue 1	Level I		1.00	0.059366	1.0753	16844654.92

AAEON Reliability Prediction Report

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Temp. (°C) 25.00

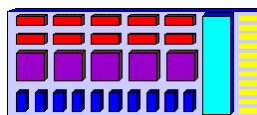


Description
File Name TF-AEC-6821-A1-1010.RPJ
Time 2:22 下午
Failure Rate 5.520957
MTBF 181,128

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S4397704	Integrated Circuit	U19	Telcordia Issue 1	Level I	25.30	1.00	0.103130	1.8680	9696527.62
1315970110	Semiconductor	U18	Telcordia Issue 1	Level I		1.00	0.159207	2.8837	6281149.14
1315995311	Semiconductor	U15A	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
14S2221100	Integrated Circuit	U14	Telcordia Issue 1	Level I		1.00	0.059366	1.0753	16844654.92
1121610180	Capacitor	C96	Telcordia Issue 1	Level I		1.00	0.004535	.0821	220487045.01
105A704333	Resistor	R90	Telcordia Issue 1	Level I		1.00	0.002268	.0411	440974090.03
105A504703	Resistor	R93	Telcordia Issue 1	Level I		1.00	0.002268	.0411	440974090.03
14S4021301	Integrated Circuit	U10,U2,U4,U9	Telcordia Issue 1	Level I		4.00	0.059366	4.3011	16844654.92
14S6334610	Integrated Circuit	U12	Telcordia Issue 1	Level I		1.00	0.022943	.4156	43586356.53
14S4255101	Integrated Circuit	U11	Telcordia Issue 1	Level I	31.60	1.00	0.140419	2.5434	7121564.23
1314108517	Integrated Circuit	U17	Telcordia Issue 1	Level I	32.90	1.00	0.518658	9.3943	1928053.09
14S4048501	Integrated Circuit	U6,U8	Telcordia Issue 1	Level I		2.00	0.059366	2.1506	16844654.92
14S4151000	Integrated Circuit	U13	Telcordia Issue 1	Level I	23.80	1.00	0.095652	1.7325	10454524.71
1653222208	Connection	CN9	Telcordia Issue 1	Level I		1.00	0.025035	.4534	39944557.76
1653213207	Connection	CN4	Telcordia Issue 1	Level I		1.00	0.014793	.2679	67598482.36
165320520G	Connection	COM3,COM4	Telcordia Issue 1	Level I		2.00	0.005690	.2061	175756054.14
1759100006	Miscellaneous	BZ1	Telcordia Issue 1	Level I		1.00	0.150000	2.7169	6666666.67
1654030003	Connection	CN8	Telcordia Issue 1	Level I		1.00	0.017069	.3092	58585351.38
1300001240	Semiconductor	D6	Telcordia Issue 1	Level I		1.00	0.023881	.4326	41874327.58
105A554903	Resistor	R79	Telcordia Issue 1	Level I		1.00	0.002268	.0411	440974090.03
105A561903	Resistor	R81	Telcordia Issue 1	Level I		1.00	0.002268	.0411	440974090.03
105A782003	Resistor	R46,R48	Telcordia Issue 1	Level I		2.00	0.002268	.0821	440974090.03
105A710033	Resistor	R74,R75	Telcordia Issue 1	Level I		2.00	0.002268	.0821	440974090.03
1059710003	Resistor	R120,R87	Telcordia Issue 1	Level I		2.00	0.002268	.0821	440974090.03
105A515003	Resistor	R116,R61,R62,R66, R68	Telcordia Issue 1	Level I		5.00	0.002268	.2054	440974090.03
105A512103	Resistor	R122	Telcordia Issue 1	Level I		1.00	0.002268	.0411	440974090.03
105A521003	Resistor	R125	Telcordia Issue 1	Level I		1.00	0.002268	.0411	440974090.03
1654068201	Connection	CN7	Telcordia Issue 1	Level I		1.00	0.038690	.7008	25846478.55
105A702233	Resistor	R166,R167,R168, R169,R170	Telcordia Issue 1	Level I		5.00	0.002268	.2054	440974090.03
14S5A00830	Integrated Circuit	U28	Telcordia Issue 1	Level I		1.00	0.026183	.4742	38193355.79
11E9510050	Capacitor	C102,C130,C67,C69, C99	Telcordia Issue 1	Level I		5.00	0.004535	.4107	220487045.01
16540A0002	Connection	U1A,U1B,U1C,U1D	Telcordia Issue 1	Level I		4.00	0.056897	4.1223	17575605.41
1653300102	Connection	JP1(5-6),JP2(5-6), JP6(5-6),JP7(5-6)	Telcordia Issue 1	Level I		4.00	0.001138	.0824	878780270.71
1654804101	Connection	USB1,USB2,USB3, USB4	Telcordia Issue 1	Level I		4.00	0.022759	1.6489	43939013.54
1601123600	Switching Device	S1	Telcordia Issue 1	Level I		1.00	0.028449	.5153	35151210.83

AAEON Reliability Prediction Report

Part Number 969770000Z-D
Reference Des
Date 05. 27, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-AEC-6821-A1-1010.RPJ
Time 2:22 下午
Failure Rate 10.510250
MTBF 95,145

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1124410190	Capacitor	C103,C104,C105, C106,C114,C115, C116,C117,C118, C119,C129,C130, C131,C132,C133, C134,C153,C170, C171,C172,C173, C182,C183,C184, C187,C188,C189, C190,C194,C195, C196,C197,C315, C345,C351,C371, C372,C88,C89,C9	Telcordia Issue 1	Level I		41.00	0.004535	1.7692	220487045.01
1122539980	Capacitor	C319,C347,C352	Telcordia Issue 1	Level I		3.00	0.004535	.1295	220487045.01
1129710390	Capacitor	C100,C101,C102, C151,C191,C198, C199,C200,C201, C206,C207,C208, C241,C242,C243, C244,C3,C4,C7,C8, C84,C85,C86,C87, C99	Telcordia Issue 1	Level I		25.00	0.004535	1.0788	220487045.01
1129701790	Capacitor	C1,C110,C111,C112, C113,C120,C121, C125,C126,C127, C128,C135,C136, C146,C147,C152, C177,C178,C179, C180,C181,C2,C202, C203,C204,C205, C209,C210,C211, C212,C290,C301, C302,C303,C304, C306,C307,C308, C309,C401,C5,C5	Telcordia Issue 1	Level I		56.00	0.004535	2.4165	220487045.01
1129722091	Capacitor	C253,C254,C255	Telcordia Issue 1	Level I		3.00	0.004535	.1295	220487045.01
1124427080	Capacitor	C280,C281	Telcordia Issue 1	Level I		2.00	0.004535	.0863	220487045.01
1124522080	Capacitor	C366	Telcordia Issue 1	Level I		1.00	0.005466	.0520	182961702.19
1301005440	Semiconductor	D10,D16	Telcordia Issue 1	Level I		2.00	0.023881	.4544	41874327.58
1301005441	Semiconductor	D4,D8,D9	Telcordia Issue 1	Level I		3.00	0.027212	.7767	36747840.84
1301005442	Semiconductor	D1,D12,D15	Telcordia Issue 1	Level I		3.00	0.023881	.6816	41874327.58
1311119710	Semiconductor	Q2	Telcordia Issue 1	Level I		1.00	0.023881	.2272	41874327.58

AAEON Reliability Prediction Report

Part Number 969770000Z-D
Reference Des
Date 05. 27, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-AEC-6821-A1-1010.RPJ
Time 2:22 下午
Failure Rate 10.510250
MTBF 95,145

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1315700214	Semiconductor	Q1,Q10,Q11,Q12,Q13, Q14,Q9	Telcordia Issue 1	Level I		7.00	0.079603	5.3017	12562298.27
1540710382	Resistor	RN39,RN46,RN49, RN51,RN52,RN54, RN56,RN57,RN58, RN59,RN60,RN61, RN62,RN63,RN64, RN65,RN66,RN67, RN68,RN70,RN71, RN72,RN73,RN74, RN75,RN76,RN77, RN78,RN79	Telcordia Issue 1	Level I		29.00	0.006246	1.7234	160102772.00
1540733085	Resistor	RN10,RN11,RN12, RN13,RN14,RN17, RN18,RN2,RN20,RN22, RN23,RN24,RN26, RN28,RN30,RN32, RN33,RN34,RN35, RN36,RN37,RN38,RN9	Telcordia Issue 1	Level I		23.00	0.006246	1.3668	160102772.00
1540722085	Resistor	RN25,RN27,RN29,RN3, RN31,RN4,RN42,RN43, RN44,RN45,RN47, RN48,RN5,RN50,RN6, RN7,RN8	Telcordia Issue 1	Level I		17.00	0.012492	2.0205	80051386.00
106B501031	Resistor	R167	Telcordia Issue 1	Level I		1.00	0.011379	.1083	87878027.07
105A704729	Resistor	R133,R158,R170, R173,R177,R178, R179,R191,R231, R233,R234,R235, R304,R305,R306, R325,R326,R327, R328,R36,R380,R381	Telcordia Issue 1	Level I		22.00	0.002268	.4747	440974090.03
105A704723	Resistor	R11,R19,R21,R23, R26,R286,R287,R288	Telcordia Issue 1	Level I		8.00	0.002268	.1726	440974090.03
105A702209	Resistor	R104,R138,R139, R142,R143,R149, R150,R151,R152, R153,R154,R155, R156,R195,R196, R197,R198,R199, R200,R201,R202, R203,R204,R205, R206,R207,R208,R31, R33,R34,R35,R389, R58,R59,R60,R61, R62,R63	Telcordia Issue 1	Level I		38.00	0.002268	.8199	440974090.03

AAEON Reliability Prediction Report

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Reference Des
Date 05. 27, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
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Time 2:22 下午
Failure Rate 10.510250
MTBF 95,145

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A700139	Resistor	R114,R115,R193, R237,R310,R333, R365,R373,R383, R387,R388,R66,R70, R73,R76,R81,R88	Telcordia Issue 1	Level I		17.00	0.002268	.3668	440974090.03
105A700009	Resistor	R102,R108,R110, R146,R147,R181, R248,R276,R283, R290,R293,R295, R296,R297,R30,R300, R301,R302,R312,R32, R321,R358,R362, R399,R50,R85,R87, R89,R91,R93,R94, R95	Telcordia Issue 1	Level I		32.00	0.002268	.6904	440974090.03
105A700003	Resistor	C239,C240,FB11, FB12,FB13,FB16, FB17,R18,R187,R238, R240,R250,R251, R266,R267,R270, R273,R285,R303, R314,R396,R404,R41, R42,R43	Telcordia Issue 1	Level I		25.00	0.002268	.5394	440974090.03
105A551119	Resistor	R242,R268,R274	Telcordia Issue 1	Level I		3.00	0.002268	.0647	440974090.03
105A501039	Resistor	R109,R112,R123, R124,R125,R126, R127,R128,R129, R130,R140,R144, R157,R160,R161, R162,R163,R166, R168,R169,R182, R192,R223,R224, R243,R247,R272, R278,R289,R329, R330,R331,R374, R375,R377,R378, R392,R57,R64,R8	Telcordia Issue 1	Level I		40.00	0.002268	.8630	440974090.03
105A703329	Resistor	R282,R311,R316, R317,R318	Telcordia Issue 1	Level I		5.00	0.002268	.1079	440974090.03
105A501139	Resistor	R246,R281	Telcordia Issue 1	Level I		2.00	0.002268	.0432	440974090.03
105A700103	Resistor	R279,R86,R90,R92	Telcordia Issue 1	Level I		4.00	0.002268	.0863	440974090.03
1050502224	Resistor	R131,R132,R135, R136,R176,R249, R275,R277,R284	Telcordia Issue 1	Level I		9.00	0.002268	.1942	440974090.03
1059700001	Resistor	R379	Telcordia Issue 1	Level I		1.00	0.002268	.0216	440974090.03

AAEON Reliability Prediction Report

Part Number 969770000Z-D
Reference Des
Date 05. 27, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name TF-AEC-6821-A1-1010.RPJ
Time 2:22 下午
Failure Rate 10.510250
MTBF 95,145

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A703309	Resistor	R189,R190,R232, R338,R339,R340, R341,R342,R343, R344,R345,R346, R347,R348,R349, R350,R351,R352, R353,R382,R385, R393,R394,R395,R55, R56,R96,R97	Telcordia Issue 1	Level I		28.00	0.002268	.6041	440974090.03
105A703303	Resistor	R16,R225,R44,R47	Telcordia Issue 1	Level I		4.00	0.002268	.0863	440974090.03
105A501413	Resistor	R363	Telcordia Issue 1	Level I		1.00	0.002268	.0216	440974090.03
105A503423	Resistor	R137	Telcordia Issue 1	Level I		1.00	0.002268	.0216	440974090.03
105A512113	Resistor	R107,R28	Telcordia Issue 1	Level I		2.00	0.002268	.0432	440974090.03
105A505623	Resistor	R218,R222	Telcordia Issue 1	Level I		2.00	0.002268	.0432	440974090.03
105A506823	Resistor	R164,R165	Telcordia Issue 1	Level I		2.00	0.002268	.0432	440974090.03
105A554903	Resistor	R313	Telcordia Issue 1	Level I		1.00	0.002268	.0216	440974090.03
105A561903	Resistor	R315	Telcordia Issue 1	Level I		1.00	0.002268	.0216	440974090.03
105A710039	Resistor	R38,R384,R386	Telcordia Issue 1	Level I		3.00	0.002268	.0647	440974090.03
105A710033	Resistor	R308,R309	Telcordia Issue 1	Level I		2.00	0.002268	.0432	440974090.03
1212306035	Inductor	FB1,FB2,FB21,FB22, FB23,FB3,FB4,FB5, L1,R213	Telcordia Issue 1	Level I		10.00	0.002268	.2158	440974090.03
1212306030	Inductor	FB14,FB15,FB18, FB19,FB6,FB7,FB8, FB9	Telcordia Issue 1	Level I		8.00	0.002268	.1726	440974090.03
1651203291	Connection	U19	Telcordia Issue 1	Level I		1.00	0.018207	.1732	54923766.92
16515A0993	Connection	J1	Telcordia Issue 1	Level I		1.00	0.113794	1.0827	8787802.71
1189622190	Capacitor	C175,C78	Telcordia Issue 1	Level I		2.00	0.004535	.0863	220487045.01
14S4230400	Integrated Circuit	U17	Telcordia Issue 1	Level I	27.60	1.00	0.115590	1.0998	8651263.29
14S2362400	Integrated Circuit	U26	Telcordia Issue 1	Level I	24.00	1.00	0.301448	2.8681	3317324.97
14S2362400	Integrated Circuit	U29,U30	Telcordia Issue 1	Level I		2.00	0.059366	1.1297	16844654.92
14S4888801	Integrated Circuit	U25	Telcordia Issue 1	Level I	27.30	1.00	0.113893	1.0836	8780133.11
14S4553600	Integrated Circuit	U15	Telcordia Issue 1	Level I	30.10	1.00	0.130610	1.2427	7656371.31
14S4813905	Integrated Circuit	U23	Telcordia Issue 1	Level I	13.10	1.00	0.054749	.5209	18265148.65
14S4638330	Integrated Circuit	U6	Telcordia Issue 1	Level I	22.50	1.00	0.274286	2.6097	3645829.71
14S3149103	Integrated Circuit	U22	Telcordia Issue 1	Level I	31.10	1.00	0.137080	1.3043	7295013.06
14S5A01400	Integrated Circuit	U14	Telcordia Issue 1	Level I		1.00	0.059366	.5648	16844654.92
14S4820900	Integrated Circuit	U16	Telcordia Issue 1	Level I	20.80	1.00	0.082110	.7812	12178764.00
14S4195710	Integrated Circuit	U33	Telcordia Issue 1	Level I		1.00	0.059366	.5648	16844654.92
14S2200900	Integrated Circuit	U13	Telcordia Issue 1	Level I		1.00	0.059366	.5648	16844654.92
14S9820800	Integrated Circuit	U18	Telcordia Issue 1	Level I		1.00	0.026183	.2491	38193355.79

AAEON Reliability Prediction Report

Part Number 969770000Z-D
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Description
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Time 2:22 下午
Failure Rate 10.510250
MTBF 95,145

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
14S9820800	Integrated Circuit	U39	Telcordia Issue 1	Level I	25.80	1.00	0.105733	1.0060	9457743.28
14S6334610	Integrated Circuit	U24	Telcordia Issue 1	Level I		1.00	0.022943	.2183	43586356.53
14S5A12503	Integrated Circuit	U2,U3,U4	Telcordia Issue 1	Level I		3.00	0.059366	1.6945	16844654.92
14S4642100	Integrated Circuit	U1	Telcordia Issue 1	Level I	35.00	1.00	0.587018	5.5852	1703525.41
14S4871203	Integrated Circuit	U20	Telcordia Issue 1	Level I	27.60	1.00	0.115590	1.0998	8651263.29
1231332721	Miscellaneous	Y1	Telcordia Issue 1	Level I		1.00	0.150000	1.4272	6666666.67
123131435B	Miscellaneous	Y4	Telcordia Issue 1	Level I		1.00	0.150000	1.4272	6666666.67
1231325058	Miscellaneous	X1,Y5	Telcordia Issue 1	Level I		2.00	0.150000	2.8544	6666666.67
1231324555	Miscellaneous	Y3	Telcordia Issue 1	Level I		1.00	0.150000	1.4272	6666666.67
1304019000	Semiconductor	D5	Telcordia Issue 1	Level I		1.00	0.004877	.0464	205063180.81
105A510513	Resistor	R15	Telcordia Issue 1	Level I		1.00	0.002268	.0216	440974090.03
105A551113	Resistor	R14	Telcordia Issue 1	Level I		1.00	0.002268	.0216	440974090.03
1124415080	Capacitor	C29,C30	Telcordia Issue 1	Level I		2.00	0.004535	.0863	220487045.01
105A505103	Resistor	R214,R215,R216, R217	Telcordia Issue 1	Level I		4.00	0.002268	.0863	440974090.03
1121533480	Capacitor	C392	Telcordia Issue 1	Level I		1.00	0.004535	.0432	220487045.01
1540747285	Resistor	RN1	Telcordia Issue 1	Level I		1.00	0.006246	.0594	160102772.00
14S5A03200	Integrated Circuit	U35	Telcordia Issue 1	Level I		1.00	0.059366	.5648	16844654.92
14S5801402	Integrated Circuit	U36	Telcordia Issue 1	Level I	27.20	1.00	0.113333	1.0783	8823567.84
1315993311	Semiconductor	Q7	Telcordia Issue 1	Level I	21.40	1.00	0.282598	2.6888	3538595.26
1540700081	Resistor	RP1,RP10,RP2,RP4, RP6,RP8	Telcordia Issue 1	Level I		6.00	0.000000	.0000	.00
121230805D	Inductor	FB20	Telcordia Issue 1	Level I		1.00	0.002268	.0216	440974090.03
105A701033	Resistor	R103	Telcordia Issue 1	Level I		1.00	0.002268	.0216	440974090.03
1302001240	Semiconductor	D3,D7	Telcordia Issue 1	Level I		2.00	0.027212	.5178	36747840.84
105A705629	Resistor	R111,R376	Telcordia Issue 1	Level I		2.00	0.002268	.0432	440974090.03
105A733033	Resistor	R120	Telcordia Issue 1	Level I		1.00	0.002268	.0216	440974090.03
105A710053	Resistor	R121,R175	Telcordia Issue 1	Level I		2.00	0.013606	.2589	73495681.67
105A747003	Resistor	R254	Telcordia Issue 1	Level I		1.00	0.002268	.0216	440974090.03
105A704763	Resistor	R148	Telcordia Issue 1	Level I		1.00	0.002268	.0216	440974090.03
14S3020300	Integrated Circuit	U21	Telcordia Issue 1	Level I	33.40	1.00	0.534251	5.0831	1871779.55
105A705123	Resistor	R211	Telcordia Issue 1	Level I		1.00	0.002268	.0216	440974090.03
105A701539	Resistor	R212	Telcordia Issue 1	Level I		1.00	0.002268	.0216	440974090.03
14S4081110	Integrated Circuit	U7	Telcordia Issue 1	Level I		1.00	0.059366	.5648	16844654.92
1301053040	Semiconductor	D13,D14	Telcordia Issue 1	Level I		2.00	0.023881	.4544	41874327.58
1189633192	Capacitor	TC3,TC4,TC5	Telcordia Issue 1	Level I		3.00	0.004535	.1295	220487045.01
105A705139	Resistor	R228	Telcordia Issue 1	Level I		1.00	0.002268	.0216	440974090.03
1189647180	Capacitor	TC1	Telcordia Issue 1	Level I		1.00	0.004535	.0432	220487045.01

AAEON Reliability Prediction Report

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Description
File Name TF-AEC-6821-A1-1010.RPJ
Time 2:22 下午
Failure Rate 10.510250
MTBF 95,145

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1314111711	Integrated Circuit	U27	Telcordia Issue 1	Level I	28.20	1.00	0.390867	3.7189	2558415.05
14S5A00821	Integrated Circuit	U34	Telcordia Issue 1	Level I		1.00	0.026183	.2491	38193355.79
11C1522480	Capacitor	C393	Telcordia Issue 1	Level I		1.00	0.004535	.0432	220487045.01
105A756003	Resistor	R239	Telcordia Issue 1	Level I		1.00	0.002268	.0216	440974090.03
165392521F	Connection	CN5	Telcordia Issue 1	Level I		1.00	0.028449	.2707	35151210.83
1653002201	Connection	JP1	Telcordia Issue 1	Level I		1.00	0.002276	.0217	439390135.35
1129715090	Capacitor	C138,C139	Telcordia Issue 1	Level I		2.00	0.004535	.0863	220487045.01
105A701053	Resistor	R400	Telcordia Issue 1	Level I		1.00	0.002268	.0216	440974090.03
1050501234	Resistor	R269	Telcordia Issue 1	Level I		1.00	0.002268	.0216	440974090.03
1315667910	Semiconductor	U37	Telcordia Issue 1	Level I	22.30	1.00	0.289015	2.7498	3460030.19
1315667910	Semiconductor	U38	Telcordia Issue 1	Level I		1.00	0.159207	1.5148	6281149.14
1654040002	Connection	CN4	Telcordia Issue 1	Level I		1.00	0.022759	.2165	43939013.54
121110156A	Inductor	L2,L4,L5	Telcordia Issue 1	Level I		3.00	0.086173	2.4597	11604581.32
1315731310	Semiconductor	Q3	Telcordia Issue 1	Level I	26.20	1.00	0.318089	3.0265	3143771.88
1315731310	Semiconductor	Q5,Q6	Telcordia Issue 1	Level I		2.00	0.159207	3.0295	6281149.14
14S4800004	Integrated Circuit	U12	Telcordia Issue 1	Level I	17.80	1.00	0.072766	.6923	13742691.57
11B9710050	Capacitor	C107,C108,C109, C122,C123,C124, C141,C144,C145, C150,C162,C163, C176,C185,C186, C192,C193,C225, C228,C231,C235, C251,C257,C278, C283,C284,C300, C305,C313,C318,C32, C320,C330,C339,C34, C344,C348,C356, C358,C36,C367,C	Telcordia Issue 1	Level I		59.00	0.004535	2.5460	220487045.01
14S6200800	Integrated Circuit	U19	Telcordia Issue 1	Level I		1.00	0.141816	1.3493	7051373.53