

AEC-6410

Reliability Prediction Report (MTBF)

Report NO : 09P070019

10-06-2009

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** TF-AEC-6410-A1-1010

II . **Prediction Date:** Oct. 6, 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: 25.1 degrees C
- Standard: Telcordia (Bellcore) Standard

VII. Term and Definition:

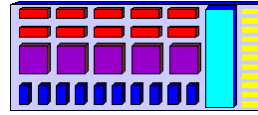
- Unit : An assembly of device.
- Duty Cycle : Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure 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-6410-A1-1010:
Failure Rate: 24.472992 ppm
MTBF: 40,861 Hours

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 10. 6, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.10



Description Top-level assembly
File Name TF-AEC-6410-A1-1010.RPJ
Time 10:28 上午
Failure Rate 24.472992
MTBF 40,861

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-AEC-6410-A1-1010	System	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	24.47	40861.37
EPIC-5536-A10	9697553607-DIP	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled		1.00	24.03	41608.41

AAEON Reliability Prediction Report

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File Name TF-AEC-6410-A1-1010.RPJ
Time 10:28 上午
Failure Rate 24.472992
MTBF 40,861

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
14D6A5123F	Integrated Circuit	Module	Telcordia Issue 1	Level I	40.60	1.00	0.439389	100.0000	2275889.15

AAEON Reliability Prediction Report

Part Number 9697553607-DIP
Reference Des
Date 10. 6, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.10



Description
File Name TF-AEC-6410-A1-1010.RPJ
Time 10:28 上午
Failure Rate 24.033603
MTBF 41,608

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A722003	Resistor	R909	Telcordia Issue 1	Level I		1.00	0.002272	.0095	440111121.05
1540722180	Resistor	RP144	Telcordia Issue 1	Level I		1.00	0.012549	.0522	79686328.81
1540700081	Resistor	RP77,RP78	Telcordia Issue 1	Level I		2.00	0.000000	.0000	.00
1653925216	Connection	CN25	Telcordia Issue 1	Level I		1.00	0.028598	.1190	34968071.08
1174510180	Capacitor	CP1,CP2,CP3,CP4,CP5,CP6,CP7,CP8	Telcordia Issue 1	Level I		8.00	0.005469	.1821	182842274.63
1129701690	Capacitor	C104,C106,C107,C108,C109,C111,C114,C118,C119,C122,C125,C127,C131,C133,C134,C135,C136,C137,C138,C153,C154,C155,C157,C158,C159,C160,C165,C167,C170,C171,C172,C248,C251,C255,C259,C260,C262,C286,C287	Telcordia Issue 1	Level I		242.00	0.004544	4.5758	220055560.52
1121701080	Capacitor	C166,C258,C261,C500,C518,C585,C586,C595,C596,C597,C598,C601,C613,C74,C80,C86,C87	Telcordia Issue 1	Level I		17.00	0.004544	.3214	220055560.52
1121610060	Capacitor	C254,C75,C78,C88	Telcordia Issue 1	Level I		4.00	0.004544	.0756	220055560.52
1121722090	Capacitor	C618,C77	Telcordia Issue 1	Level I		2.00	0.004544	.0378	220055560.52
1124547280	Capacitor	C128,C84	Telcordia Issue 1	Level I		2.00	0.005469	.0455	182842274.63
1124410190	Capacitor	C100,C113,C195,C196,C197,C205,C207,C208,C214,C223,C224,C225,C226,C235,C236,C237,C238,C239,C240,C249,C269,C270,C271,C272,C281,C282,C283,C284,C358,C359,C360,C361,C362,C363,C364,C365,C587,C588,C593	Telcordia Issue 1	Level I		45.00	0.004544	.8509	220055560.52
1122539980	Capacitor	C101,C120	Telcordia Issue 1	Level I		2.00	0.004544	.0378	220055560.52

AAEON Reliability Prediction Report

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Temp. (°C) 25.10



Description
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Time 10:28 上午
Failure Rate 24.033603
MTBF 41,608

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1124522190	Capacitor	C105,C121,C177, C178,C179	Telcordia Issue 1	Level I		5.00	0.004544	.0945	220055560.52
1189647180	Capacitor	C126,C619	Telcordia Issue 1	Level I		2.00	0.004544	.0378	220055560.52
1189615150	Capacitor	C156,C161,C417, C611,C616	Telcordia Issue 1	Level I		5.00	0.004544	.0945	220055560.52
1129701790	Capacitor	C174,C175,C180, C181,C183,C184, C198,C199,C200, C201,C202,C203, C204,C206,C217, C218,C219,C220, C221,C222,C230, C231,C232,C233, C234,C253,C265, C266,C267,C268, C277,C278,C279, C280,C285,C441, C443,C445,C446,	Telcordia Issue 1	Level I		41.00	0.004544	.7752	220055560.52
1129710390	Capacitor	C187,C188,C189, C190,C191,C192, C193,C194,C350, C351,C352,C353, C354,C355,C356, C357,C442,C444, C447,C448,C604, C606	Telcordia Issue 1	Level I		22.00	0.004544	.4160	220055560.52
1129622050	Capacitor	C209,C210,C211, C212,C213,C215, C216,C227,C228, C229,C256,C273, C274,C289,C290, C339,C340,C341, C366,C367,C368, C369,C626,C627	Telcordia Issue 1	Level I		24.00	0.004544	.4538	220055560.52
1129722091	Capacitor	C242,C243,C389, C390,C400,C401, C605,C608,C609	Telcordia Issue 1	Level I		9.00	0.004544	.1702	220055560.52
1129747650	Capacitor	C252	Telcordia Issue 1	Level I		1.00	0.005469	.0228	182842274.63
1129715090	Capacitor	C186,C244,C250, C371,C372,C373, C395,C402,C449, C465,C466,C476, C477,C478,C479, C480,C481,C505, C506,C521	Telcordia Issue 1	Level I		20.00	0.004544	.3782	220055560.52
1129747090	Capacitor	C496,C497,C498, C577,C578	Telcordia Issue 1	Level I		5.00	0.005469	.1138	182842274.63

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MTBF 41,608

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
105A505109	Resistor	R573,R575,R576, R578,R579,R580, R581,R582,R583, R584,R585,R586, R587,R588,R589, R590,R591,R592, R593,R594,R595, R596,R597,R598, R599,R600,R601, R602,R603,R604, R605,R606,R607, R608,R609,R610, R611,R612,R613,	Telcordia Issue 1	Level I		40.00	0.002272	.3782	440111121.05
105A747009	Resistor	R655,R967,R968	Telcordia Issue 1	Level I		3.00	0.002272	.0284	440111121.05
1059703623	Resistor	R684,R715	Telcordia Issue 1	Level I		2.00	0.002272	.0189	440111121.05
105A505623	Resistor	R689,R718	Telcordia Issue 1	Level I		2.00	0.002272	.0189	440111121.05
105A549969	Resistor	R690,R691,R692, R693,R730,R731, R732,R733	Telcordia Issue 1	Level I		8.00	0.002272	.0756	440111121.05
105A510213	Resistor	R765	Telcordia Issue 1	Level I		1.00	0.002272	.0095	440111121.05
105A705139	Resistor	R784,R785,R853	Telcordia Issue 1	Level I		3.00	0.002272	.0284	440111121.05
105A708229	Resistor	R797,R798,R799, R800,R801,R802, R803,R835,R836, R838	Telcordia Issue 1	Level I		10.00	0.002272	.0945	440111121.05
105A506823	Resistor	R841,R843	Telcordia Issue 1	Level I		2.00	0.002272	.0189	440111121.05
105A507509	Resistor	R880,R881,R882	Telcordia Issue 1	Level I		3.00	0.002272	.0284	440111121.05
105A702239	Resistor	R883,R884,R885, R886,R887,R888	Telcordia Issue 1	Level I		6.00	0.002272	.0567	440111121.05
105A701059	Resistor	R903	Telcordia Issue 1	Level I		1.00	0.002272	.0095	440111121.05
14S2921400	Integrated Circuit	U13	Telcordia Issue 1	Level I		1.00	0.059802	.2488	16721916.86
14S2921400	Integrated Circuit	U18	Telcordia Issue 1	Level I	53.20	1.00	1.621856	6.7483	616577.57
14S2362400	Integrated Circuit	U20	Telcordia Issue 1	Level I	50.30	1.00	1.390469	5.7855	719181.63
14S2362400	Integrated Circuit	U22	Telcordia Issue 1	Level I		1.00	0.059802	.2488	16721916.86
1314111712	Integrated Circuit	U21	Telcordia Issue 1	Level I	45.50	1.00	1.071598	4.4588	933185.39
14S2533100	Integrated Circuit	U23	Telcordia Issue 1	Level I		1.00	0.059802	.2488	16721916.86
14S5801402	Integrated Circuit	U26	Telcordia Issue 1	Level I		1.00	0.026337	.1096	37969565.62
14S4081110	Integrated Circuit	U27	Telcordia Issue 1	Level I		1.00	0.059802	.2488	16721916.86
14S3149103	Integrated Circuit	U28	Telcordia Issue 1	Level I	51.00	1.00	0.340135	1.4152	2940011.75
1315970211	Semiconductor	U29,U30	Telcordia Issue 1	Level I		2.00	0.159665	1.3287	6263129.16
14S4553600	Integrated Circuit	U31	Telcordia Issue 1	Level I	39.30	1.00	0.202509	.8426	4938047.75

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Time 10:28 上午
Failure Rate 24.033603
MTBF 41,608

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S5A00820	Integrated Circuit	U33	Telcordia Issue 1	Level I		1.00	0.025343	.1054	39458149.17
14S9820800	Integrated Circuit	U35	Telcordia Issue 1	Level I		1.00	0.026337	.1096	37969565.62
14S4820900	Integrated Circuit	U36	Telcordia Issue 1	Level I	43.70	1.00	0.247142	1.0283	4046257.01
14S4820900	Integrated Circuit	U40	Telcordia Issue 1	Level I		1.00	0.026337	.1096	37969565.62
14S5A12503	Integrated Circuit	U52	Telcordia Issue 1	Level I		1.00	0.059802	.2488	16721916.86
14S6334610	Integrated Circuit	U41	Telcordia Issue 1	Level I	43.10	1.00	0.362565	1.5086	2758129.69
14S6334610	Integrated Circuit	U43	Telcordia Issue 1	Level I		1.00	0.023111	.0962	43268765.90
14S4810001	Integrated Circuit	U42	Telcordia Issue 1	Level I	39.60	1.00	0.205312	.8543	4870638.77
14S4810001	Integrated Circuit	U44	Telcordia Issue 1	Level I		1.00	0.026337	.1096	37969565.62
14S4642100	Integrated Circuit	U45	Telcordia Issue 1	Level I		1.00	0.059802	.2488	16721916.86
14S4888801	Integrated Circuit	U46	Telcordia Issue 1	Level I	39.60	1.00	0.205312	.8543	4870638.77
14S4871204	Integrated Circuit	U47	Telcordia Issue 1	Level I		1.00	0.026337	.1096	37969565.62
14S3128421	Integrated Circuit	U49	Telcordia Issue 1	Level I		1.00	0.059802	.2488	16721916.86
14S4121601	Integrated Circuit	U50	Telcordia Issue 1	Level I		1.00	0.026337	.1096	37969565.62
14S4021301	Integrated Circuit	U51,U53,U58,U59	Telcordia Issue 1	Level I		4.00	0.059802	.9953	16721916.86
14S5A00401	Integrated Circuit	U54	Telcordia Issue 1	Level I		1.00	0.026337	.1096	37969565.62
14S4048502	Integrated Circuit	U55,U57	Telcordia Issue 1	Level I		2.00	0.059802	.4977	16721916.86
14S5A12505	Integrated Circuit	U56	Telcordia Issue 1	Level I	48.80	1.00	1.282758	5.3374	779570.11
1315993311	Semiconductor	U60	Telcordia Issue 1	Level I		1.00	0.159665	.6643	6263129.16
14S5A01400	Integrated Circuit	U61	Telcordia Issue 1	Level I		1.00	0.059802	.2488	16721916.86
14S4758300	Integrated Circuit	U62	Telcordia Issue 1	Level I	46.80	1.00	1.150753	4.7881	868995.96
14S3020300	Integrated Circuit	U63	Telcordia Issue 1	Level I	34.50	1.00	0.573405	2.3858	1743967.10
123131435B	Miscellaneous	Y1	Telcordia Issue 1	Level I		1.00	0.150000	.6241	6666666.67
1231332721	Miscellaneous	Y2	Telcordia Issue 1	Level I		1.00	0.150000	.6241	6666666.67
1231325058	Miscellaneous	Y4,Y5,Y7	Telcordia Issue 1	Level I		3.00	0.150000	1.8724	6666666.67
1231324555	Miscellaneous	Y6	Telcordia Issue 1	Level I		1.00	0.150000	.6241	6666666.67
1315889611	Semiconductor	U14	Telcordia Issue 1	Level I	63.90	1.00	0.361843	1.5056	2763628.15
1315889611	Semiconductor	U15	Telcordia Issue 1	Level I	48.70	1.00	0.265656	1.1054	3764268.12
1651203291	Connection	U48	Telcordia Issue 1	Level I		1.00	0.018302	.0762	54637611.06
1305000140	Semiconductor	D10,D11,D12,D13, D14,D15,D16,D9	Telcordia Issue 1	Level I		8.00	0.023950	.7972	41754194.40
1654040002	Connection	CN17	Telcordia Issue 1	Level I		1.00	0.022878	.0952	43710088.85
1654030003	Connection	CN9	Telcordia Issue 1	Level I		1.00	0.017159	.0714	58280118.46
1655901000	Connection	CN20	Telcordia Issue 1	Level I		1.00	0.005720	.0238	174840355.39
1301053040	Semiconductor	D34,D35	Telcordia Issue 1	Level I		2.00	0.023950	.1993	41754194.40
121110336H	Inductor	L2	Telcordia Issue 1	Level I	50.40	1.00	0.200843	.8357	4979017.05

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121110336L	Inductor	L4,L5,L6	Telcordia Issue 1	Level I		3.00	0.086342	1.0778	11581871.61
1315230300	Semiconductor	Q42	Telcordia Issue 1	Level I		1.00	0.079832	.3322	12526258.32
105A566519	Resistor	R415	Telcordia Issue 1	Level I		1.00	0.002272	.0095	440111121.05
105A502839	Resistor	R417,R429	Telcordia Issue 1	Level I		2.00	0.002272	.0189	440111121.05
1050525524	Resistor	R419	Telcordia Issue 1	Level I		1.00	0.002272	.0095	440111121.05
1050512124	Resistor	R427	Telcordia Issue 1	Level I		1.00	0.002272	.0095	440111121.05
1050584514	Resistor	R432	Telcordia Issue 1	Level I		1.00	0.002272	.0095	440111121.05
105A703909	Resistor	R458,R459,R460, R462,R464,R466, R467,R470,R471, R472,R522,R645	Telcordia Issue 1	Level I		12.00	0.002272	.1134	440111121.05
105A703039	Resistor	R475,R481	Telcordia Issue 1	Level I		2.00	0.002272	.0189	440111121.05
1050702704	Resistor	R672,R673,R674, R675,R676	Telcordia Issue 1	Level I		5.00	0.002272	.0473	440111121.05
14S3524700	Integrated Circuit	U64	Telcordia Issue 1	Level I		1.00	0.059802	.2488	16721916.86
14S9811500	Integrated Circuit	U68	Telcordia Issue 1	Level I		1.00	0.059802	.2488	16721916.86
1314111711	Integrated Circuit	U24	Telcordia Issue 1	Level I	50.20	1.00	1.383045	5.7546	723042.13
105A705629	Resistor	R902	Telcordia Issue 1	Level I		1.00	0.002272	.0095	440111121.05
105A705639	Resistor	R911,R912	Telcordia Issue 1	Level I		2.00	0.002272	.0189	440111121.05
105A704739	Resistor	R926,R927,R929, R931	Telcordia Issue 1	Level I		4.00	0.002272	.0378	440111121.05
1315002010	Semiconductor	Q9	Telcordia Issue 1	Level I		1.00	0.079832	.3322	12526258.32
1129722680	Capacitor	C568	Telcordia Issue 1	Level I		1.00	0.004544	.0189	220055560.52
1300414840	Semiconductor	D38	Telcordia Issue 1	Level I		1.00	0.023950	.0997	41754194.40
1540710084	Resistor	LN1, LN2, LN3, LN4, LN5, LN6, LN7, LN8	Telcordia Issue 1	Level I		8.00	0.006275	.2089	159372657.61
105A704709	Resistor	R566	Telcordia Issue 1	Level I		1.00	0.002272	.0095	440111121.05
14S2200900	Integrated Circuit	U74	Telcordia Issue 1	Level I		1.00	0.059802	.2488	16721916.86
12123D1210	Inductor	FB30,FB31,FB32, FB34,FB35,FB36, FB37,FB38	Telcordia Issue 1	Level I		8.00	0.086342	2.8740	11581871.61
105A501233	Resistor	R391	Telcordia Issue 1	Level I		1.00	0.002272	.0095	440111121.05
105A501533	Resistor	R402	Telcordia Issue 1	Level I		1.00	0.002272	.0095	440111121.05
105A531613	Resistor	R410	Telcordia Issue 1	Level I		1.00	0.002272	.0095	440111121.05
14S4800004	Integrated Circuit	U12	Telcordia Issue 1	Level I	38.80	1.00	0.162796	.6774	6142662.34
1311390612	Semiconductor	Q54	Telcordia Issue 1	Level I		1.00	0.023950	.0997	41754194.40
1214309006	Inductor	CH1,CH2,CH3,CH4	Telcordia Issue 1	Level I		4.00	0.002272	.0378	440111121.05
1122701680	Capacitor	C162	Telcordia Issue 1	Level I		1.00	0.004544	.0189	220055560.52
105A503039	Resistor	R842,R857	Telcordia Issue 1	Level I		2.00	0.002272	.0189	440111121.05
1121501690	Capacitor	C102,C116	Telcordia Issue 1	Level I		2.00	0.004544	.0378	220055560.52

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105A701033	Resistor	R952	Telcordia Issue 1	Level I		1.00	0.002272	.0095	440111121.05
14S5812300	Integrated Circuit	U69	Telcordia Issue 1	Level I		1.00	0.026337	.1096	37969565.62
105A747039	Resistor	R933	Telcordia Issue 1	Level I		1.00	0.002272	.0095	440111121.05
1121722650	Capacitor	C645	Telcordia Issue 1	Level I		1.00	0.005469	.0228	182842274.63
14S4070500	Integrated Circuit	U73	Telcordia Issue 1	Level I		1.00	0.059802	.2488	16721916.86
11B9710050	Capacitor	C103,C110,C112, C115,C117,C123, C124,C132,C164, C176,C182,C185, C257,C263,C264, C416,C422,C432, C472,C475,C488, C489,C564,C566, C570,C589,C591, C602,C615,C617, C628,C630,C82,C91, C93,C99	Telcordia Issue 1	Level I		36.00	0.004544	.6807	220055560.52
1189647186	Capacitor	C81,C90	Telcordia Issue 1	Level I		2.00	0.004544	.0378	220055560.52
1315667910	Semiconductor	U72	Telcordia Issue 1	Level I	52.00	1.00	0.569476	2.3695	1756000.06
1315667910	Semiconductor	U71	Telcordia Issue 1	Level I		1.00	0.159665	.6643	6263129.16
1315422410	Semiconductor	Q34,Q35,U19	Telcordia Issue 1	Level I		3.00	0.079832	.9965	12526258.32
1655902030	Connection	CN24	Telcordia Issue 1	Level I		1.00	0.001144	.0048	874201776.95
175011901C	Miscellaneous	CN24	Telcordia Issue 1	Level I		1.00	0.900000	3.7448	1111111.11
175910000B	Miscellaneous	BUZZ1	Telcordia Issue 1	Level I		1.00	0.150000	.6241	6666666.67
1653132228	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.036605	.1523	27318805.53
1653120229	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.022878	.0952	43710088.85
1653130424	Connection	CN4	Telcordia Issue 1	Level I		1.00	0.068634	.2856	14570029.62
1652522203	Connection	CN7,CN8	Telcordia Issue 1	Level I		2.00	0.012583	.1047	79472888.81
1655306023	Connection	CN10	Telcordia Issue 1	Level I		1.00	0.003432	.0143	291400592.32
1653005100	Connection	CN11	Telcordia Issue 1	Level I		1.00	0.071494	.2975	13987228.43
1655003010	Connection	CN14	Telcordia Issue 1	Level I		1.00	0.001716	.0071	582801184.63
1653005201	Connection	CN15,CN16	Telcordia Issue 1	Level I		2.00	0.005720	.0476	174840355.39
1655305020	Connection	CN18	Telcordia Issue 1	Level I		1.00	0.002860	.0119	349680710.78
1653217204	Connection	CN19	Telcordia Issue 1	Level I		1.00	0.019446	.0809	51423633.94
1653003101	Connection	JP1,JP2,JP3,JP5, JP7,JP8,JP9	Telcordia Issue 1	Level I		7.00	0.001716	.0500	582801184.63
1653003201	Connection	JP4,JP6	Telcordia Issue 1	Level I		2.00	0.001144	.0095	874201776.95
1654907006	Connection	CN27,CN28	Telcordia Issue 1	Level I		2.00	0.004004	.0333	249771936.27
1654415305	Connection	CN29	Telcordia Issue 1	Level I		1.00	0.008579	.0357	116560236.93
1653222200	Connection	CN26	Telcordia Issue 1	Level I		1.00	0.025166	.1047	39736444.41

