

ETX-CX700M Reliability Prediction Report (MTBF)

Report NO : 08E070034

11-25-2008

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . Model Name: ETX-CX700M

II . Prediction Date: Nov. 25, 2008

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
- Component: Level I
- Duty Cycle: 100%
- Mode: GF, GU - Ground Fixed, Uncontrolled

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:

- Failure Rate: 11.068513 ppm
- MTBF: 90,346 Hours

AAEON Reliability Prediction Report

Part Number 9697C7007
Reference Des
Date 11. 25, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

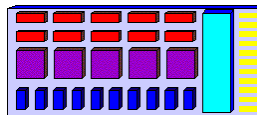


Description Top-level assembly
File Name ETX-CX700M.RPJ
Time 1:35 下午
Failure Rate 11.068513
MTBF 90,346

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
ETX-CX700M	9697C7007	Telcordia	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	11.068513	90,346

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Time 1:35 下午
Failure Rate 11.068513
MTBF 90,346

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1129701690	Capacitor	C103,C104,C108, C109,C112,C117, C124,C136,C137, C140,C142,C144, C145,C149,C152, C153,C157,C159, C161,C168,C186, C188,C189,C191, C193,C196,C197, C198,C199,C200, C201,C202,C203, C204,C206,C208, C210,C211,C212,	Telcordia Issue 1	Level I		0.004535	133.00	5.4498	0.603210	220487045.01
1129710390	Capacitor	C102,C106,C114, C123,C127,C128, C131,C132,C135, C178,C377,C379, C388,C390,C416,C49, C57,C67,C90,C92, C96,C98	Telcordia Issue 1	Level I		0.004535	22.00	.9015	0.099779	220487045.01
11E9647680	Capacitor	C110,C120,C166, C167,C170,C179, C181,C309,C385, C389,C50,C54,C56, C58,C66,C68,C73, C76,C77,C81,C82, C85,C93	Telcordia Issue 1	Level 0		0.009071	23.00	1.8849	0.208629	110243522.51
11E9501090	Capacitor	C105,C111,C113, C115,C116,C146, C154,C155,C156, C192,C194,C195, C205,C207,C209, C217,C219,C221, C270,C277,C293, C305,C311,C330, C415,C60,C61,C62, C64,C65,C72,C74, C75,C79,C95	Telcordia Issue 1	Level I		0.004535	35.00	1.4342	0.158739	220487045.01
1124427090	Capacitor	C100,C101	Telcordia Issue 1	Level I		0.004535	2.00	.0820	0.009071	220487045.01
11A4416080	Capacitor	C133,C134	Telcordia Issue 1	Level I		0.004535	2.00	.0820	0.009071	220487045.01
1129710090	Capacitor	C164,C165,C184, C185	Telcordia Issue 1	Level I		0.004535	4.00	.1639	0.018142	220487045.01
1189633160	Capacitor	C190,C317,C318	Telcordia Issue 1	Level I		0.004535	3.00	.1229	0.013606	220487045.01
1124522080	Capacitor	C232,C233	Telcordia Issue 1	Level I		0.005466	2.00	.0988	0.010931	182961702.19

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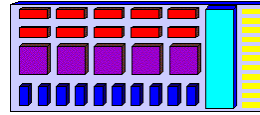


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Time 1:35 下午
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MTBF 90,346

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1129747090	Capacitor	C265	Telcordia Issue 1	Level II		0.001822	1.00	.0165	0.001822	548885106.58
105A700003	Resistor	FB19,FB25,R366, R375,R386,R387, R389,R432,R433, R484,R486,R493, R539,R541,R543	Telcordia Issue 1	Level I		0.002268	15.00	.3073	0.034016	440974090.03
1124410190	Capacitor	C271,C406	Telcordia Issue 1	Level I		0.004535	2.00	.0820	0.009071	220487045.01
105A700009	Resistor	C272,C273,C274, C275,R109,R122, R125,R126,R196, R199,R203,R219, R221,R261,R262, R264,R265,R279, R280,R282,R285, R327,R328,R331, R332,R333,R361, R363,R371,R409, R417,R428,R437, R490,R504,R517, R535,R536,R537,	Telcordia Issue 1	Level I		0.002268	43.00	.8810	0.097511	440974090.03
1124405090	Capacitor	C300	Telcordia Issue 1	Level I		0.004535	1.00	.0410	0.004535	220487045.01
1124527850	Capacitor	C310	Telcordia Issue 1	Level I		0.004535	1.00	.0410	0.004535	220487045.01
1121733780	Capacitor	C313,C399,C400	Telcordia Issue 1	Level I		0.005466	3.00	.1481	0.016397	182961702.19
1189647180	Capacitor	C316	Telcordia Issue 1	Level I		0.004535	1.00	.0410	0.004535	220487045.01
1124518280	Capacitor	C321	Telcordia Issue 1	Level I		0.004535	1.00	.0410	0.004535	220487045.01
1124522280	Capacitor	C322	Telcordia Issue 1	Level I		0.004535	1.00	.0410	0.004535	220487045.01
1124568180	Capacitor	C324	Telcordia Issue 1	Level I		0.004535	1.00	.0410	0.004535	220487045.01
1124556180	Capacitor	C325	Telcordia Issue 1	Level I		0.004535	1.00	.0410	0.004535	220487045.01
1124515850	Capacitor	C328	Telcordia Issue 1	Level I		0.004535	1.00	.0410	0.004535	220487045.01
1189622189	Capacitor	C339	Telcordia Issue 1	Level I		0.004535	1.00	.0410	0.004535	220487045.01
1124533190	Capacitor	C342	Telcordia Issue 1	Level I		0.005466	1.00	.0494	0.005466	182961702.19
1189922180	Capacitor	C366	Telcordia Issue 1	Level I	26.00	0.007246	1.00	.0655	0.007246	137998890.99
1189922180	Capacitor	C357,C370	Telcordia Issue 1	Level I		0.004535	2.00	.0820	0.009071	220487045.01
1121701080	Capacitor	C360,C365,C376, C378,C380	Telcordia Issue 1	Level I		0.004535	5.00	.2049	0.022677	220487045.01
1122539980	Capacitor	C407	Telcordia Issue 1	Level I		0.004535	1.00	.0410	0.004535	220487045.01

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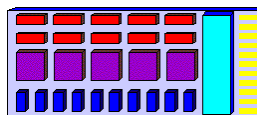


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MTBF 90,346

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1124522190	Capacitor	C412	Telcordia Issue 1	Level I		0.004535	1.00	.0410	0.004535	220487045.01
1301003440	Semiconductor	D1	Telcordia Issue 1	Level I		0.023881	1.00	.2158	0.023881	41874327.58
1301005444	Semiconductor	D2	Telcordia Issue 1	Level I		0.023881	1.00	.2158	0.023881	41874327.58
1301053040	Semiconductor	D10,D11,D12,D5,D6, D9	Telcordia Issue 1	Level I		0.023881	6.00	1.2945	0.143286	41874327.58
1301005442	Semiconductor	D13,D14,D15,D18,D7	Telcordia Issue 1	Level I		0.023881	5.00	1.0788	0.119405	41874327.58
1301005443	Semiconductor	D16,D8	Telcordia Issue 1	Level I		0.027212	2.00	.4917	0.054425	36747840.84
1301005441	Semiconductor	D17	Telcordia Issue 1	Level I		0.027212	1.00	.2459	0.027212	36747840.84
121230603W	Inductor	FB1,FB10,FB11,FB12, FB13,FB14,FB15, FB16,FB2,FB20,FB3, FB4,FB5,FB6,FB7, FB8,FB9,L3,L4,L5, L6,L7,L8	Telcordia Issue 1	Level I		0.002268	23.00	.4712	0.052157	440974090.03
1212306030	Inductor	FB24	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
1653150221	Connection	J1,J2,J3,J4	Telcordia Issue 1	Level I		0.056897	4.00	2.0562	0.227588	17575605.41
1211104760	Inductor	L1,L2	Telcordia Issue 1	Level I		0.002268	2.00	.0410	0.004535	440974090.03
121110010R	Inductor	L9	Telcordia Issue 1	Level I		0.086173	1.00	.7785	0.086173	11604581.32
1301002240	Semiconductor	L11	Telcordia Issue 1	Level I		0.023881	1.00	.2158	0.023881	41874327.58
121110156A	Inductor	L14	Telcordia Issue 1	Level I	30.30	0.147716	1.00	1.3346	0.147716	6769729.59
121110156A	Inductor	L12,L13,L15	Telcordia Issue 1	Level I		0.086173	3.00	2.3356	0.258519	11604581.32
1304101340	Semiconductor	PWR1	Telcordia Issue 1	Level I		0.004877	1.00	.0441	0.004877	205063180.81
1315700211	Semiconductor	Q1,Q11,Q13,Q14,Q16, Q18,Q2,Q27,Q6,Q8, Q9	Telcordia Issue 1	Level I		0.079603	11.00	7.9111	0.875636	12562298.27
1311119710	Semiconductor	Q3	Telcordia Issue 1	Level I		0.023881	1.00	.2158	0.023881	41874327.58
1315667910	Semiconductor	Q10	Telcordia Issue 1	Level I	29.30	0.342713	1.00	3.0963	0.342713	2917891.48
1315667910	Semiconductor	Q12	Telcordia Issue 1	Level I		0.159207	1.00	1.4384	0.159207	6281149.14
14S2533100	Integrated Circuit	Q15	Telcordia Issue 1	Level I	26.10	0.343547	1.00	3.1038	0.343547	2910811.37
1315441012	Semiconductor	Q19	Telcordia Issue 1	Level I	32.60	0.185227	1.00	1.6735	0.185227	5398777.06
1315441012	Semiconductor	Q20	Telcordia Issue 1	Level I		0.079603	1.00	.7192	0.079603	12562298.27
1315992601	Semiconductor	Q21	Telcordia Issue 1	Level I		0.159207	1.00	1.4384	0.159207	6281149.14
1315992601	Semiconductor	Q22	Telcordia Issue 1	Level I	30.70	0.354287	1.00	3.2009	0.354287	2822573.38
1315731310	Semiconductor	Q23	Telcordia Issue 1	Level I		0.159207	1.00	1.4384	0.159207	6281149.14
14S3917900	Integrated Circuit	Q24,Q25	Telcordia Issue 1	Level I		0.059366	2.00	1.0727	0.118732	16844654.92

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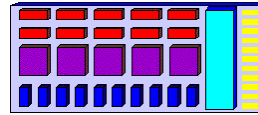


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File Name ETX-CX700M.RPJ
Time 1:35 下午
Failure Rate 11.068513
MTBF 90,346

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A700139	Resistor	R123,R136,R207, R269,R270,R271, R272,R273,R274, R275,R276,R278, R281,R286,R310, R311,R320,R413, R420,R426,R429, R478,R482,R502, R512,R516,R528,R99	Telcordia Issue 1	Level I		0.002268	28.00	.5737	0.063496	440974090.03
105A701039	Resistor	R108,R110,R267, R268,R406,R442, R443,R448,R449, R461,R489,R519	Telcordia Issue 1	Level I		0.002268	12.00	.2459	0.027212	440974090.03
105A707509	Resistor	R111	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
105A701069	Resistor	R119	Telcordia Issue 1	Level I		0.013606	1.00	.1229	0.013606	73495681.67
105A701059	Resistor	R182	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
105A703309	Resistor	R204,R205,R211, R212,R236,R237, R238,R239,R240, R241,R242,R243, R244,R245,R246, R247,R248,R249, R250,R251,R252, R253,R254,R255, R256,R257,R258, R259,R260,R412, R418	Telcordia Issue 1	Level I		0.002268	31.00	.6351	0.070299	440974090.03
105A547509	Resistor	R210	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
105A500139	Resistor	R263,R266	Telcordia Issue 1	Level I		0.002268	2.00	.0410	0.004535	440974090.03
105A501539	Resistor	R283,R498,R499, R500,R501	Telcordia Issue 1	Level I		0.002268	5.00	.1024	0.011339	440974090.03
105A505623	Resistor	R284	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
105A701009	Resistor	R299,R430	Telcordia Issue 1	Level I		0.002268	2.00	.0410	0.004535	440974090.03
105A733009	Resistor	R306,R307,R308, R309,R474	Telcordia Issue 1	Level I		0.002268	5.00	.1024	0.011339	440974090.03
105A705139	Resistor	R312,R313,R374	Telcordia Issue 1	Level I		0.002268	3.00	.0615	0.006803	440974090.03
105A704723	Resistor	R323,R324,R325	Telcordia Issue 1	Level I		0.002268	3.00	.0615	0.006803	440974090.03
105A702039	Resistor	R336,R531	Telcordia Issue 1	Level I		0.002268	2.00	.0410	0.004535	440974090.03
1059702261	Resistor	R337	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
105A705129	Resistor	R338,R529	Telcordia Issue 1	Level I		0.002268	2.00	.0410	0.004535	440974090.03

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105A539223	Resistor	R340,R532	Telcordia Issue 1	Level I		0.002268	2.00	.0410	0.004535	440974090.03
105A506823	Resistor	R347,R348,R383	Telcordia Issue 1	Level I		0.002268	3.00	.0615	0.006803	440974090.03
106B501031	Resistor	R355	Telcordia Issue 1	Level I		0.011379	1.00	.1028	0.011379	87878027.07
105A710053	Resistor	R360	Telcordia Issue 1	Level I		0.013606	1.00	.1229	0.013606	73495681.67
105A510033	Resistor	R377	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
105A520033	Resistor	R381	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
105A501223	Resistor	R382	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
105A700103	Resistor	R384	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
105A532413	Resistor	R394	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
105A513723	Resistor	R395	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
105A554923	Resistor	R400	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
105A545323	Resistor	R401	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
105A507533	Resistor	R403	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
105A535713	Resistor	R404	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
105A510513	Resistor	R407	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
1059700001	Resistor	R408,R431,R439, R453,R463,R464	Telcordia Issue 1	Level I		0.002268	6.00	.1229	0.013606	440974090.03
105A710039	Resistor	R414,R421	Telcordia Issue 1	Level I		0.002268	2.00	.0410	0.004535	440974090.03
105A556269	Resistor	R423	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
105A708229	Resistor	R424,R427	Telcordia Issue 1	Level I		0.002268	2.00	.0410	0.004535	440974090.03
105A512403	Resistor	R436	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
105A701053	Resistor	R446,R454	Telcordia Issue 1	Level I		0.002268	2.00	.0410	0.004535	440974090.03
105A502033	Resistor	R457	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
105A501133	Resistor	R458	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
105A501033	Resistor	R460,R462	Telcordia Issue 1	Level I		0.002268	2.00	.0410	0.004535	440974090.03
105A511303	Resistor	R466	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
105A553669	Resistor	R469	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
105A551119	Resistor	R485	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
1050501234	Resistor	R487	Telcordia Issue 1	Level I		0.002268	1.00	.0205	0.002268	440974090.03
1050502224	Resistor	R491,R492	Telcordia Issue 1	Level I		0.002268	2.00	.0410	0.004535	440974090.03
1189615150	Capacitor	TC1,TC2,TC5,TC6, TC7	Telcordia Issue 1	Level I		0.004535	5.00	.2049	0.022677	220487045.01

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118961018A	Capacitor	TC3,TC4	Telcordia Issue 1	Level I		0.004535	2.00	.0820	0.009071	220487045.01
14S4700002	Integrated Circuit	U2	Telcordia Issue 1	Level I	27.80	0.116733	1.00	1.0546	0.116733	8566531.68
14S5500400	Integrated Circuit	U4	Telcordia Issue 1	Level I	30.40	0.132522	1.00	1.1973	0.132522	7545889.17
14S5A00400	Integrated Circuit	U5	Telcordia Issue 1	Level I	25.30	0.103130	1.00	.9317	0.103130	9696527.62
14S4195710	Integrated Circuit	U6	Telcordia Issue 1	Level I	22.90	0.281305	1.00	2.5415	0.281305	3554866.45
1651203291	Connection	U7	Telcordia Issue 1	Level I		0.018207	1.00	.1645	0.018207	54923766.92
14S3090600	Integrated Circuit	U8	Telcordia Issue 1	Level I	34.40	0.160460	1.00	1.4497	0.160460	6232073.21
14S9820800	Integrated Circuit	U9	Telcordia Issue 1	Level I		0.026183	1.00	.2365	0.026183	38193355.79
14S5A25701	Integrated Circuit	U10	Telcordia Issue 1	Level I	30.00	0.129978	1.00	1.1743	0.129978	7693601.50
14S4813905	Integrated Circuit	U11	Telcordia Issue 1	Level I		0.026183	1.00	.2365	0.026183	38193355.79
14S6334610	Integrated Circuit	U12	Telcordia Issue 1	Level I		0.022943	1.00	.2073	0.022943	43586356.53
14S4888801	Integrated Circuit	U13	Telcordia Issue 1	Level I	29.70	0.128098	1.00	1.1573	0.128098	7806521.95
14S3088800	Integrated Circuit	U14	Telcordia Issue 1	Level I		0.026183	1.00	.2365	0.026183	38193355.79
14S4362704	Integrated Circuit	U15	Telcordia Issue 1	Level I	30.90	0.135764	1.00	1.2266	0.135764	7365719.53
1315668012	Semiconductor	U17	Telcordia Issue 1	Level I		0.023881	1.00	.2158	0.023881	41874327.58
1315668012	Semiconductor	U16	Telcordia Issue 1	Level I	27.30	0.049001	1.00	.4427	0.049001	20407921.90
1315889611	Semiconductor	U18	Telcordia Issue 1	Level I	29.00	0.170135	1.00	1.5371	0.170135	5877681.15
1315889611	Semiconductor	U19	Telcordia Issue 1	Level I		0.079603	1.00	.7192	0.079603	12562298.27
14S4621800	Integrated Circuit	U20	Telcordia Issue 1	Level I		0.059366	1.00	.5364	0.059366	16844654.92
14S9108500	Integrated Circuit	U21	Telcordia Issue 1	Level I		0.059366	1.00	.5364	0.059366	16844654.92
1314880510	Semiconductor	U26	Telcordia Issue 1	Level I		0.079603	1.00	.7192	0.079603	12562298.27
14S3156500	Semiconductor	U27	Telcordia Issue 1	Level I		0.047762	1.00	.4315	0.047762	20937163.79
14S2705700	Integrated Circuit	U28	Telcordia Issue 1	Level I		0.059366	1.00	.5364	0.059366	16844654.92
14S4148500	Integrated Circuit	U29	Telcordia Issue 1	Level I		0.059366	1.00	.5364	0.059366	16844654.92
14S4070610	Integrated Circuit	U30	Telcordia Issue 1	Level I		0.059366	1.00	.5364	0.059366	16844654.92
14S5A00700	Integrated Circuit	U31	Telcordia Issue 1	Level I	15.30	0.059391	1.00	.5366	0.059391	16837645.75
14S2362400	Integrated Circuit	U33	Telcordia Issue 1	Level I	32.80	0.515589	1.00	4.6582	0.515589	1939530.32
14S5A03200	Integrated Circuit	U34	Telcordia Issue 1	Level I		0.059366	1.00	.5364	0.059366	16844654.92
1231327051	Miscellaneous	X1	Telcordia Issue 1	Level I		0.150000	1.00	1.3552	0.150000	6666666.67
1231325058	Miscellaneous	X2,X5	Telcordia Issue 1	Level I		0.150000	2.00	2.7104	0.300000	6666666.67
1231332721	Miscellaneous	X3	Telcordia Issue 1	Level I		0.150000	1.00	1.3552	0.150000	6666666.67

