

BOXER-6404U

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 6121.811162 MTBF: 163,350 Hours
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Issue date	QE Manager	Test Engineer
2017-01-17	KJ Wang	Louie Lee

Reliability Prediction (MTBF)

I . Model Name: BOXER-6404U

II . Prediction Date: January. 17th, 2017

III . Prediction Site: AAEON Q.E. Dept.

IV . Predicted by: Louie Lee

V . Equipment: Windchill Quality Solutions 10.1

VI. Simulation Environment:

- Temperature: 30 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 Failure rate multiplier is 1000000000.
- MTBF : MTBF is always specified in hours.

VIII. Prediction Result:

BOXER-6404U (M/B: 9697BT0531-D):

- Failure Rate: 6121.811162
- MTBF: 163,350 Hours

**AAEON Reliability Prediction
Summary**

File Name: BOXER-6404U.rfp
Duty Cycle: 100
Calculation Model: Telcordia Issue 2
Method: Method I Case 3

Failure Rate: 6121.811162
MTBF (hrs): 163,350
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
BOXER-6404U	9697BT0531-D		1	6121.811162	163,350

File Name: BOXER-6404U.rfp
Assembly: 9697BT0531-D
Ref Des:
Description:

Failure Rate: 6121.811162
MTBF (hrs): 163,350
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050501054	Resistor	R318,R404		2.547039	2	154078778.388085
1050501834	Resistor	R372		2.547039	1	282340674.079668
1050502004	Resistor	R90,R92		2.547039	2	154078778.388085
1050502734	Resistor	R418		2.547039	1	282340674.079668
1050504724	Resistor	R1,R182,R185,R186,R188,R2,R361		2.547039	7	48991237.965885
1050504734	Resistor	R178		2.547039	1	282340674.079668
1050505134	Resistor	R323,R371,R391,R410,R521,R58		2.547039	6	56573956.677649
1050505164	Resistor	R328		2.547039	1	282340674.079668
1050505633	Resistor	R342,R368,R394		2.547039	3	107020754.986850
1050507524	Resistor	R423		2.547039	1	282340674.079668
1050508224	Resistor	R338		2.547039	1	282340674.079668
1050510034	Resistor	R332,R337,R339,R499,R522,R6,R7		2.547039	7	48991237.965885
1050511034	Resistor	R376		2.547039	1	282340674.079668
1050512414	Resistor	R123		2.547039	1	282340674.079668
1050515034	Resistor	R355		2.547039	1	282340674.079668
1050516204	Resistor	R5		2.547039	1	282340674.079668
1050516934	Resistor	R353		2.547039	1	282340674.079668
1050516964	Resistor	R91		2.547039	1	282340674.079668
1050520034	Resistor	R127,R131		2.547039	2	154078778.388085
1050523264	Resistor	R3		2.547039	1	282340674.079668
1050527424	Resistor	R420,R59		2.547039	2	154078778.388085
1050529464	Resistor	R4		2.547039	1	282340674.079668
1050530124	Resistor	R311,R421		2.547039	2	154078778.388085
1050533034	Resistor	R313,R424		2.547039	2	154078778.388085
1050538314	Resistor	R409		2.547039	1	282340674.079668
1050540204	Resistor	R20,R29,R37		2.547039	3	107020754.986850
1050540214	Resistor	R64		2.547039	1	282340674.079668
1050540224	Resistor	R60		2.547039	1	282340674.079668
1050545334	Resistor	R341		2.547039	1	282340674.079668
1050545364	Resistor	R108,R122		2.547039	2	154078778.388085
1050547564	Resistor	R65		2.547039	1	282340674.079668
1050561934	Resistor	R396		2.547039	1	282340674.079668
1050568124	Resistor	R179		2.547039	1	282340674.079668
1050573264	Resistor	R380,R381,R382		2.547039	3	107020754.986850
1050578714	Resistor	R322		2.547039	1	282340674.079668
1050700002	Resistor	R143,R234		2.547039	2	154078778.388085
1050701634	Resistor	R344		2.547039	1	282340674.079668

File Name: BOXER-6404U.rfp
Assembly: 9697BT0531-D
Ref Des:
Description:

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050708234	Resistor	R314,R425		2.547039	2	154078778.388085
1050718034	Resistor	R389		2.547039	1	282340674.079668
1050756004	Resistor	R263,R264,R265, R266		2.547039	4	82309758.689546
1054700289	Resistor	R392		2.547039	1	282340674.079668
1059520001	Resistor	R506		2.547039	1	282340674.079668
1059710001	Resistor	R507		2.547039	1	282340674.079668
105A500103	Resistor	R393		2.547039	1	282340674.079668
105A500139	Resistor	R112,R113,R450, R452		2.547039	4	82309758.689546
105A500173	Resistor	R142,R149,R151, R152,R153,R154, R156,R157,R158, R159,R160,R161, R162,R163,R164, R165,R166,R167, R168,R170,R173, R174,R175		2.547039	23	15826261.230290
105A501039	Resistor	R326,R329,R413		2.547039	3	107020754.986850
105A501539	Resistor	R350,R417		2.547039	2	154078778.388085
105A502039	Resistor	R362,R366,R475		2.547039	3	107020754.986850
105A502253	Resistor	R364		2.547039	1	282340674.079668
105A503039	Resistor	R378,R473		2.547039	2	154078778.388085
105A503309	Resistor	R501		2.547039	1	282340674.079668
105A505109	Resistor	R72,R73,R74, R76, R77		2.547039	5	67008142.102588
105A505629	Resistor	R343		2.547039	1	282340674.079668
105A507509	Resistor	R191,R192,R193		2.547039	3	107020754.986850
105A507533	Resistor	R395		2.547039	1	282340674.079668
105A510009	Resistor	R144,R145,R146		2.547039	3	107020754.986850
105A510223	Resistor	R340,R397		2.547039	2	154078778.388085
105A515009	Resistor	R14,R15,R16, R189, R190,R194,R25		2.547039	7	48991237.965885
105A515034	Resistor	R346,R367		2.547039	2	154078778.388085
105A515823	Resistor	R369		2.547039	1	282340674.079668
105A524919	Resistor	R209,R226		2.547039	2	154078778.388085

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A529429	Resistor	R354		2.547039	1	282340674.079668
105A530043	Resistor	R345		2.547039	1	282340674.079668
105A533269	Resistor	R383		2.547039	1	282340674.079668
105A534819	Resistor	R325		2.547039	1	282340674.079668
105A534823	Resistor	R412		2.547039	1	282340674.079668
105A535703	Resistor	R22		2.547039	1	282340674.079668
105A543033	Resistor	R365		2.547039	1	282340674.079668
105A547003	Resistor	R508,R509		2.547039	2	154078778.388085
105A549969	Resistor	R126,R47,R48,R49,R50,R96		2.547039	6	56573956.677649
105A562034	Resistor	R333		2.547039	1	282340674.079668
105A700003	Resistor	R169,R177,R207,R224,R320,R321,R327,R330,R331,R334,R335,R336,R347,R352,R357,R375,R386,R402,R407,R408,R414,R765		2.547039	22	16518584.576317

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105A700009	Resistor	R105,R106,R125, R130,R136,R138, R139,R140,R141,R17, R171,R18,R183,R187, R19,R197,R198,R199, R21,R214,R215,R231, R232,R251,R267, R268,R272,R282, R284,R316,R317, R319,R34,R348,R359, R36,R360,R373,R384, R385,R388,R400, R406,R416,R427, R428,R461,R462, R464,R4		2.547039	89	4241898.161265
105A700139	Resistor	R100,R200,R201, R202,R205,R206, R218,R220,R221, R222,R223,R390, R482,R498,R503, R514,R518,R533, R534		2.547039	19	19019185.781770

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105A701039	Resistor	R102,R104,R180, R181,R184,R203, R208,R217,R225, R245,R246,R247, R249,R250,R252, R253,R254,R262, R273,R274,R275, R285,R35,R356,R38, R419,R43,R44,R449, R45,R453,R455,R457, R458,R46,R463,R467, R474,R476,R481, R504,R515,R517,R53, R537,R605,R772, R773,R777,R77		2.547039	63	5949421.035389
105A701059	Resistor	R11,R257,R63		2.547039	3	107020754.986850
105A701069	Resistor	R84		2.547039	1	282340674.079668
105A701539	Resistor	R204,R219		2.547039	2	154078778.388085
105A702039	Resistor	R101,R103,R86		2.547039	3	107020754.986850
105A702229	Resistor	R116,R117,R119,R12, R128,R129,R13,R132, R133,R195,R196,R23, R24,R85		2.547039	14	25477245.255648
105A702263	Resistor	R370		2.547039	1	282340674.079668
105A702433	Resistor	R315,R426		2.547039	2	154078778.388085
105A703309	Resistor	R124,R134,R248, R280,R283,R513, R516		2.547039	7	48991237.965885

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105A704729	Resistor	R216,R233,R256, R259,R260,R261, R278,R279,R493, R496,R500,R56,R770, R771,R81,R83,R93		2.547039	17	21160422.299251
105A705139	Resistor	R759,R760		2.547039	2	154078778.388085
105A708229	Resistor	R109,R110		2.547039	2	154078778.388085
105A710009	Resistor	R505		2.547039	1	282340674.079668
105A710039	Resistor	R107,R312,R377, R387,R399,R415, R422,R444,R446, R478,R479,R480,R57, R61		2.547039	14	25477245.255648
105A720009	Resistor	R79		2.547039	1	282340674.079668
105A733003	Resistor	R535,R536		2.547039	2	154078778.388085
105A733009	Resistor	R210,R213,R227, R230,R494,R495, R510,R511		2.547039	8	43225424.698300
105A747009	Resistor	R448,R456,R459, R460,R465,R468		2.547039	6	56573956.677649
105A747039	Resistor	R497		2.547039	1	282340674.079668
106B510034	Resistor	RT1,RT2,RT3,RT4		7.724580	4	21923287.146155

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1121501691	Capacitor	C1,C10,C105 ,C118, C119,C12,C1 21,C122, C124,C125,C 13,C134, C135,C136,C 137, C138,C139,C 140, C141,C142,C 143, C144,C145,C 152, C153,C154,C 155, C159,C16,C1 60,C170, C171,C172,C 173, C174,C175,C 176, C178,C180,C 181, C182,C183,C 184, C186,C187,C 188, C189,C190,C 191, C		1.128806	172	5054226.344261
1121633180	Capacitor	C430		1.128806	1	704977644.692287
1122522890	Capacitor	C334,C349		1.128806	2	375289731.076049
1124418090	Capacitor	C14,C15		1.128806	2	375289731.076049
1124427090	Capacitor	C202,C206,C 238, C242		1.128806	4	196873384.410843
1124427091	Capacitor	C11,C157,C1 62,C164, C8		1.128806	5	159367490.199266
1124433090	Capacitor	C316		1.128806	1	704977644.692287
1124533280	Capacitor	C447,C448		1.128806	2	375289731.076049
1129622690	Capacitor	C120,C123,C 26,C27, C28,C29,C33 ,C34, C53,C54,C55 ,C56		1.128806	12	68856937.301178

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1129701791	Capacitor	C258,C355,C377, C460,C461,C462, C463,C64,C656,C657, C658,C659,C96		1.128806	13	63728475.410842
1129710091	Capacitor	C156,C161,C163		1.128806	3	257514172.353070
1129710391	Capacitor	C366,C409		1.128806	2	375289731.076049
1129722091	Capacitor	C284		1.128806	1	704977644.692287
1183668091	Capacitor	C646		4.744484	1	159663026.715137
1189633151	Capacitor	TC1		4.744484	1	159663026.715137
1189656196	Capacitor	C373		4.744484	1	159663026.715137
1189682199	Capacitor	C300,C312,C651, C652,C653,C654, C655		4.744484	7	26949727.707925
118A6221B0	Capacitor	C358,C359,C660		4.744484	3	59399119.141203
11A4410194	Capacitor	C318,C335		1.128806	2	375289731.076049
11C2510340	Capacitor	C428		1.128806	1	704977644.692287
11C4501650	Capacitor	C350,C539		1.128806	2	375289731.076049
11C4501790	Capacitor	C288,C398		1.128806	2	375289731.076049
11C4515290	Capacitor	C327		1.128806	1	704977644.692287
11C4522290	Capacitor	C301,C361,C375		1.128806	3	257514172.353070
11C4533380	Capacitor	C315		1.128806	1	704977644.692287
11C4547190	Capacitor	C194,C195,C196, C230,C231,C232, C431,C432,C433, C434,C435,C436, C437,C442,C443		1.128806	15	55479656.844874
11C4547290	Capacitor	C362		1.128806	1	704977644.692287
11C4556690	Capacitor	C290,C399		1.128806	2	375289731.076049
11E1501040	Capacitor	C360		1.128806	1	704977644.692287
11E1501080	Capacitor	C297,C303,C304, C369		1.128806	4	196873384.410843
11E1510050	Capacitor	C158,C185,C221, C268,C309,C310, C313,C357,C459		1.128806	9	90863428.080946

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11E1522680	Capacitor	C321		1.128806	1	704977644.692287
11E1533780	Capacitor	C322		1.128806	1	704977644.692287
11E2501080	Capacitor	C296,C370		1.128806	2	375289731.076049
11E4433090	Capacitor	C165,C166,C167, C168,C378,C384		1.128806	6	133979725.056342
11E4510021	Capacitor	C351,C537,C661, C662		1.128806	4	196873384.410843
11E4547610	Capacitor	C363,C426,C427		1.128806	3	257514172.353070
11E9522790	Capacitor	C169,C317,C336		1.128806	3	257514172.353070
11E9547630	Capacitor	C198,C199,C234, C235,C329,C38,C39		1.128806	7	115633865.771428
11E9547790	Capacitor	C79		1.128806	1	704977644.692287
11E9610080	Capacitor	C126,C127,C128, C129,C130,C131, C132,C133,C146, C147,C32		1.128806	11	74892583.279796
11E9622052	Capacitor	C100,C101,C330, C331,C332,C333, C345,C346,C347, C348,C407,C410, C411,C412,C413, C414,C415,C43,C44, C45,C97,C99		1.128806	22	38230892.707156
11E9622080	Capacitor	C285,C286,C393, C394		1.128806	4	196873384.410843
11E9647690	Capacitor	C342		1.128806	1	704977644.692287
11EA610030	Capacitor	C299,C372,C379, C382,C385,C388		1.128806	6	133979725.056342
11EB501040	Capacitor	C383,C389		1.128806	2	375289731.076049
11EB510010	Capacitor	C249,C40,C41,C42, C468,C98		1.128806	6	133979725.056342

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11EB510640	Capacitor	C102,C103,C104, C106,C108,C109, C110,C111,C112, C113,C114,C115, C116,C117,C148, C149,C150,C151,C17, C177,C179,C18,C19, C203,C205,C209,C21, C211,C239,C241, C271,C31,C325,C326, C343,C35,C36,C37, C423,C440,C6,C61, C62,C63,C65,C66, C67,C68,C69,C7,C70, C71,C72		1.128806	73	11790641.859792
11EB522640	Capacitor	C439		1.128806	1	704977644.692287
11EB610050	Capacitor	C293,C294,C306, C307,C320,C323, C324,C365,C367, C648,C649,C650		1.128806	12	68856937.301178
11EB622010	Capacitor	C282,C390		1.128806	2	375289731.076049
11EB647020	Capacitor	C269		1.128806	1	704977644.692287
121110156P	Inductor	L5,L8		4.944252	2	83201062.149749
121110156T	Inductor	L3		4.944252	1	154760964.143460
121110226X	Inductor	L4,L7		4.944252	2	83201062.149749
1211104271	Inductor	L10,L9		4.944252	2	83201062.149749
121110476Q	Inductor	L1,L2		4.944252	2	83201062.149749
121111007L	Inductor	L6		4.944252	1	154760964.143460
1212306030	Inductor	FB2		4.944252	1	154760964.143460
1212308054	Inductor	FB9		4.944252	1	154760964.143460
12123A000B	Inductor	FB10,FB11,FB12, FB13,FB14,FB15, FB16		4.944252	7	25970990.056682

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12123D0001	Inductor	FB1,FB3,FB4,FB5,FB6,FB7,FB8		4.944252	7	25970990.056682
1214309009	Inductor	CH18,CH19,C H2,CH3		4.944252	4	43912872.424775
123132505D	Miscellaneous	Y1		19.200000	1	23844262.770939
123132505M	Miscellaneous	Y3,Y4		19.200000	2	8854051.752197
1231332726	Miscellaneous	Y2		19.200000	1	23844262.770939
12330024A1	Miscellaneous	Y5		19.200000	1	23844262.770939
1301005440	Semiconductor	D6,D7		7.793411	2	50578095.223398
1301013040	Semiconductor	D4		7.793411	1	92807310.010983
1301075140	Semiconductor	D1,D2		7.793411	2	50578095.223398
1301400642	Semiconductor	D8		7.793411	1	92807310.010983
1301793040	Semiconductor	D10,D9		7.793411	2	50578095.223398
1304000043	Optical Device	LED1		79.003355	1	6497172.749112
1304300140	Optical Device	LED2		79.003355	1	6497172.749112
1304451400	Optical Device	LED4		79.003355	1	6497172.749112
1305080040	Semiconductor	D48,D49,D5, D50,D51		7.793411	5	21965031.404253
1310390413	Semiconductor	Q41,Q44,Q4 7		22.463360	3	12043329.789539
1311390610	Semiconductor	Q51,Q52		22.463360	2	17315095.066101
13150027N0	Semiconductor	Q21,Q87		22.463360	2	17315095.066101
1315060301	Semiconductor	Q18,Q19,Q2 4,Q25, Q91,Q92		22.463360	6	6378891.324740
1315200312	Semiconductor	Q16,Q17		22.463360	2	17315095.066101
1315700216	Semiconductor	Q13,Q90		22.463360	2	17315095.066101
1315EM6K10	Semiconductor	Q1,Q12,Q2,Q 3,Q36, Q37,Q4,Q42, Q43,Q45, Q46,Q48,Q4 9,Q5,Q50, Q6,Q7,Q8,Q9		22.463360	19	2149533.403027
1430012821	Integrated Circuit	U33,U34		43.803003	2	6834791.244197
1430053250	Integrated Circuit	U2,U8		43.803003	2	6834791.244197
1430080650	Integrated Circuit	U26,U35		43.803003	2	6834791.244197
1430082021	Integrated Circuit	U27,U32		43.803003	2	6834791.244197
1430097420	Integrated Circuit	U21		43.803003	1	11739202.588727
1430455200	Integrated Circuit	U39,U41,U42 ,U43, U44,U45		43.803003	6	2750969.191556
1430532190	Integrated Circuit	U31		43.803003	1	11739202.588727
1430973950	Integrated Circuit	U75		43.803003	1	11739202.588727
143S596410	Integrated Circuit	U29		43.803003	1	11739202.588727
1440002130	Integrated Circuit	U74		43.803003	1	11739202.588727
1440J19000	Integrated Circuit	U1		21.706765	1	23689035.791249

File Name: BOXER-6404U.rfp
Assembly: 9697BT0531-D
Ref Des:
Description:

Failure Rate: 6121.811162
MTBF (hrs): 163,350
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1462B404U0	Integrated Circuit	U23		11.063278	1	58231413.220643
149TB01040	Integrated Circuit	U24		43.803003	1	11739202.588727
149TS01040	Integrated Circuit	U3,U4		43.803003	2	6834791.244197
14S2200900	Integrated Circuit	U9		43.803003	1	11739202.588727
14S3104500	Integrated Circuit	U22,U61,U62,U73		43.803003	4	3879156.910661
14S3820700	Integrated Circuit	U28		43.803003	1	11739202.588727
14S4180100	Integrated Circuit	U20		43.803003	1	11739202.588727
14S4631500	Integrated Circuit	U54		43.803003	1	11739202.588727
14S4811103	Integrated Circuit	U10,U15		43.803003	2	6834791.244197
14S5912300	Integrated Circuit	U55		26.018600	1	25551442.237972
14S5A00802	Integrated Circuit	U46,U49		26.018600	2	14194252.866846
14S5A00821	Integrated Circuit	U5,U50		26.018600	2	14194252.866846
14S5A01402	Integrated Circuit	U12,U17		26.018600	2	14194252.866846
14S5A30601	Integrated Circuit	U6,U7		26.018600	2	14194252.866846
14S5A73200	Integrated Circuit	U47,U51		26.018600	2	14194252.866846
14S6206403	Integrated Circuit			11.063278	1	58231413.220643
14S6366B00	Integrated Circuit	U11,U16		43.803003	2	6834791.244197
14S9108500	Integrated Circuit	U40,U48		43.803003	2	6834791.244197
1651508010	Connection	CN41		16.184835	1	35685591.360212
16515A2990	Connection	CN2		16.184835	1	35685591.360212
1652003101	Connection	CN39		16.184835	1	35685591.360212
165251420B	Connection	CN4,CN5		16.184835	2	20390152.380746
165300310G	Connection	JP2,JP4		16.184835	2	20390152.380746
165300420Q	Connection	CN10		16.184835	1	35685591.360212
165300520X	Connection	JP3		16.184835	1	35685591.360212
165320520V	Connection	CN15		16.184835	1	35685591.360212
165330010G	Connection	JP2(1-2),JP4(2-3)		16.184835	2	20390152.380746
1653926211	Connection	CN40		16.184835	1	35685591.360212
1654226308	Connection	CN6		16.184835	1	35685591.360212
1654409103	Connection	CN43		16.184835	1	35685591.360212
1654809302	Connection	CN42		16.184835	1	35685591.360212
1654900703	Connection	CN20		16.184835	1	35685591.360212
1655302025	Connection	CN19		16.184835	1	35685591.360212
1655813031	Connection	CN3		16.184835	1	35685591.360212
1655902034	Connection	CN1		16.184835	1	35685591.360212
1655905038	Connection	CN9		16.184835	1	35685591.360212
1655912032	Connection	CN11		16.184835	1	35685591.360212
175011301C	Miscellaneous	M1		306.000000	1	1681683.006787
1752001603	Miscellaneous	FS1,FS2		2.400000	2	143944727.196625
1752001900	Miscellaneous	FS6,FS7		2.400000	2	143944727.196625