

Boxer-6421

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 6629.581685 MTBF: 150,839 Hours
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Issue date

QE Manager

Test Engineer

2016-09-26

KJ Wang

Louie Lee

Reliability Prediction (MTBF)

I . Model Name: Boxer-6421

II . Prediction Date: September. 26th, 2016

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-6421 (M/B: 9697IMX613-D):

- Failure Rate: 6629.581685

- MTBF: 150,839 Hours

File Name: Boxer-6421.rfp
Duty Cycle: 100
Calculation Model: Telcordia Issue 2
Method: Method I Case 3

Failure Rate: 6629.581685
MTBF (hrs): 150,839
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
Boxer-6421	9697IMX613-D		1	6629.581685	150,839

File Name: Boxer-6421.rfp
Assembly: 9697IMX613-D
Ref Des:
Description:

Failure Rate: 6629.581685
MTBF (hrs): 150,839
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050500104	Resistor	R1036,R1108		2.547039	2	154078778.388085
1050501054	Resistor	R123,R212,R227, R233		2.547039	4	82309758.689546
1050501234	Resistor	R1,R306		2.547039	2	154078778.388085
1050502734	Resistor	R218,R408		2.547039	2	154078778.388085
1050504724	Resistor	R177,R274,R440, R441,R443,R444		2.547039	6	56573956.677649
1050504734	Resistor	R12,R379,R382,R429		2.547039	4	82309758.689546
1050507530	Resistor	R217		2.547039	1	282340674.079668
1050510034	Resistor	R1000,R11,R302, R303,R344,R347, R361,R371,R504		2.547039	9	38754445.632391
1050515034	Resistor	R198		2.547039	1	282340674.079668
1050516014	Resistor	R406		2.547039	1	282340674.079668
1050516234	Resistor	R1062		2.547039	1	282340674.079668
1050520004	Resistor	R365,R370,R88		2.547039	3	107020754.986850
1050522034	Resistor	R502,R503		2.547039	2	154078778.388085
1050523714	Resistor	R30		2.547039	1	282340674.079668
1050524004	Resistor	R184,R277,R309, R320,R332		2.547039	5	67008142.102588
1050531624	Resistor	R260		2.547039	1	282340674.079668
1050533004	Resistor	R125,R275,R399		2.547039	3	107020754.986850
1050545334	Resistor	R501		2.547039	1	282340674.079668
1050547034	Resistor	R6		2.547039	1	282340674.079668
1050547564	Resistor	R322		2.547039	1	282340674.079668
1050551004	Resistor	R354		2.547039	1	282340674.079668
1050560414	Resistor	R175,R404		2.547039	2	154078778.388085
1050560464	Resistor	R389,R403		2.547039	2	154078778.388085
105270000A	Resistor	R154		2.547039	1	282340674.079668
1054500589	Resistor	R100		2.547039	1	282340674.079668
1059700001	Resistor	R427		2.547039	1	282340674.079668
105A500139	Resistor	R1051,R991		2.547039	2	154078778.388085
105A501033	Resistor	R308		2.547039	1	282340674.079668
105A501039	Resistor	R1054,R1060, R1415, R1416,R315, R87		2.547039	6	56573956.677649
105A501539	Resistor	R1016,R407		2.547039	2	154078778.388085
105A502003	Resistor	R171,R350		2.547039	2	154078778.388085

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105A502200	Resistor	R152,R159		2.547039	2	154078778.388085
105A502223	Resistor	R149,R153		2.547039	2	154078778.388085
105A502253	Resistor	R351		2.547039	1	282340674.079668
105A502263	Resistor	R531		2.547039	1	282340674.079668
105A502839	Resistor	R259		2.547039	1	282340674.079668
105A503039	Resistor	R368,R455,R 90		2.547039	3	107020754.986850
105A503309	Resistor	R439,R490,R 491, R492,R493,R 494, R495,R496,R 497		2.547039	9	38754445.632391
105A506829	Resistor	R1011		2.547039	1	282340674.079668
105A506834	Resistor	R67,R68		2.547039	2	154078778.388085
105A511513	Resistor	R307		2.547039	1	282340674.079668
105A512039	Resistor	R1065,R204		2.547039	2	154078778.388085
105A514313	Resistor	R499		2.547039	1	282340674.079668
105A515009	Resistor	R127		2.547039	1	282340674.079668
105A524919	Resistor	R446		2.547039	1	282340674.079668
105A528733	Resistor	R1061		2.547039	1	282340674.079668
105A547509	Resistor	R500		2.547039	1	282340674.079668
105A549969	Resistor	R482,R483,R 484, R485,R486,R 487, R488,R489		2.547039	8	43225424.698300
105A590963	Resistor	R296		2.547039	1	282340674.079668
105A700003	Resistor	R1053,R107, R1113, R120,R124,R 138, R144,R155,R 170, R172,R176,R 182, R194,R209,R 210, R285,R286,R 311, R390,R421		2.547039	20	18104712.511396

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105A700009	Resistor	R1008,R1050 ,R115, R116,R141,R 1414, R146,R147,R 148, R166,R169,R 173, R202,R22,R2 22,R24, R263,R268,R 271, R280,R300,R 301, R304,R31,R3 10,R316, R317,R329,R 335, R369,R372,R 373, R383,R387,R 392, R405,R411,R 412, R424,R425,R 428, R430,R432,R 447, R448,R457,R 507, R508,		2.547039	59	6343183.296372
105A700139	Resistor	R10,R135,R1 9,R193, R195,R240,R 246, R249,R258,R 265, R358,R451,R 456,R7, R71		2.547039	15	23852782.943395
105A701009	Resistor	R359		2.547039	1	282340674.079668

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105A701039	Resistor	R101,R105,R112, R114,R118,R122, R143,R2,R203,R206, R215,R226,R247, R250,R252,R255, R257,R264,R269, R273,R279,R281, R282,R3,R318,R34, R375,R380,R381, R393,R4,R414,R417, R423,R426,R431, R437,R50,R53,R65, R70,R73,R78,R81,R9, R91,R94		2.547039	47	7918121.839508
105A701059	Resistor	R401		2.547039	1	282340674.079668
105A701069	Resistor	R336		2.547039	1	282340674.079668
105A701529	Resistor	R66		2.547039	1	282340674.079668
105A702209	Resistor	R251,R256,R272,R41, R445,R49,R58,R62, R82		2.547039	9	38754445.632391
105A702229	Resistor	R178,R191		2.547039	2	154078778.388085
105A702239	Resistor	R211,R234		2.547039	2	154078778.388085
105A704729	Resistor	R162,R180,R192, R213,R299,R328, R340,R341,R343, R353,R409,R410		2.547039	12	29507083.749401
105A705129	Resistor	R453,R467,R468, R469,R470,R471, R472,R473,R474, R475,R480,R481, R498		2.547039	13	27342571.921361

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105A710009	Resistor	R156		2.547039	1	282340674.079668
105A710039	Resistor	R117,R364,R402, R454,R84		2.547039	5	67008142.102588
105A715009	Resistor	R244,R46		2.547039	2	154078778.388085
105A720009	Resistor	R438		2.547039	1	282340674.079668
105A733009	Resistor	R200,R236,R378, R386,R458,R459, R460,R461,R462, R463,R464,R465, R466,R476,R5		2.547039	15	23852782.943395
105B500009	Resistor	R109,R110,R126, R183,R190,R312, R319,R321,R325, R422,R97		2.547039	11	32049696.385471
105B501039	Resistor	R150,R174,R181		2.547039	3	107020754.986850
1124410190	Capacitor	C263,C290		1.128806	2	375289731.076049
1124418090	Capacitor	C110,C125,C379, C402		1.128806	4	196873384.410843
1124420090	Capacitor	C554		1.128806	1	704977644.692287
1124427090	Capacitor	C59,C64		1.128806	2	375289731.076049
1124433090	Capacitor	C224,C349,C363		1.128806	3	257514172.353070
1124447180	Capacitor	C437		1.128806	1	704977644.692287
1124533280	Capacitor	C663,C735		1.128806	2	375289731.076049
1124547190	Capacitor	C275,C54,C60		1.128806	3	257514172.353070
1129522790	Capacitor	C166,C381,C395, C407,C88		1.128806	5	159367490.199266
1129610080	Capacitor	C353,C361,C502, C508,C510,C511, C512,C513		1.128806	8	101746760.035398
1129710090	Capacitor	C15,C20,C553		1.128806	3	257514172.353070
1129710391	Capacitor	C454		1.128806	1	704977644.692287
1129715090	Capacitor	C487,C488		1.128806	2	375289731.076049
1129722091	Capacitor	C251,C320,C323, C345		1.128806	4	196873384.410843

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1149547050	Capacitor	C327		1.128806	1	704977644.692287
1189610153	Capacitor	C350,C364		4.744484	2	86049450.747498
1189610192	Capacitor	C406,C544		4.744484	2	86049450.747498
1189633193	Capacitor	C576		4.744484	1	159663026.715137
118B6101D0	Capacitor	C322,C878,C879		4.744484	3	59399119.141203
11A4416080	Capacitor	C203,C417		1.128806	2	375289731.076049
11C1501030	Capacitor	C197,C226,C229,C409,C429		1.128806	5	159367490.199266
11C1510390	Capacitor	C127,C35,C376,C39,C51,C55		1.128806	6	133979725.056342
11C2510480	Capacitor	C142		1.128806	1	704977644.692287
11C4501380	Capacitor	C352		1.128806	1	704977644.692287
11C4510240	Capacitor	C876,C877		1.128806	2	375289731.076049
11C4510480	Capacitor	C568,C569		1.128806	2	375289731.076049
11C4547190	Capacitor	C444		1.128806	1	704977644.692287
11C4547730	Capacitor	C250		1.128806	1	704977644.692287
11C9582390	Capacitor	C375		1.128806	1	704977644.692287
11E1501080	Capacitor	C355		1.128806	1	704977644.692287
11E1501290	Capacitor	C449		1.128806	1	704977644.692287
11E1522020	Capacitor	C389,C390		1.128806	2	375289731.076049
11E1522680	Capacitor	C228,C413,C418,C424		1.128806	4	196873384.410843
11E1547650	Capacitor	C521,C522		1.128806	2	375289731.076049
11E2501040	Capacitor	C22,C234,C24,C25,C258,C261,C278,C282,C288,C328,C337,C354,C358,C362,C410,C421,C45,C46,C48,C50,C86,C87,C9,C92,C99		1.128806	25	33748887.792763

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11E2501690	Capacitor	C10,C101,C102,C108,C109,C12,C13,C136,C137,C16,C181,C19,C202,C206,C21,C214,C222,C23,C231,C236,C237,C239,C240,C241,C242,C243,C244,C246,C247,C248,C249,C256,C257,C259,C260,C268,C27,C270,C277,C279,C280,C283,C284,C285,C29,C293,C294,C295,C297,C3, C3		1.128806	152	5712445.942369
11E2510010	Capacitor	C103,C104,C165,C384,C422,C434		1.128806	6	133979725.056342
11E4510020	Capacitor	C537,C538,C539,C540,C541		1.128806	5	159367490.199266
11E9510490	Capacitor	C176,C211,C217,C218,C219,C220,C221,C225,C329,C330,C331,C332,C334,C335,C366,C367,C368,C369,C430,C432,C438,C441,C94,C96,C97, C98		1.128806	26	32480878.530766
11E9547490	Capacitor	C266,C298,C85,C89		1.128806	4	196873384.410843

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11E9547680	Capacitor	C11,C14,C22 3,C272, C273,C276,C 291, C304,C313,C 314, C551,C552,C 8		1.128806	13	63728475.410842
11E9547682	Capacitor	C227,C230,C 405, C415		1.128806	4	196873384.410843
11E9610080	Capacitor	C208,C216,C 262, C265,C267,C 325, C342,C343,C 374		1.128806	9	90863428.080946
11E9622080	Capacitor	C105,C106,C 107, C112,C119,C 126, C129,C145,C 148, C149,C162,C 196, C212,C254,C 255, C286,C292,C 306, C315,C316,C 317, C326,C397		1.128806	23	36609385.175833
11E9647690	Capacitor	C253,C296,C 346, C360,C442		1.128806	5	159367490.199266
11EA510390	Capacitor	C164		1.128806	1	704977644.692287

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11EA922491	Capacitor	C113,C115,C116, C117,C118,C120, C121,C122,C123, C124,C130,C131, C132,C133,C134, C135,C138,C139, C140,C141,C146, C147,C152,C153, C154,C155,C156, C157,C158,C159, C161,C163,C168, C169,C170,C171, C172,C173,C174, C175,C177,C178, C180,C183,C184, C185,C186,C187,		1.128806	63	13632557.733278
11EB510010	Capacitor	C100,C545,C546, C557,C682,C73		1.128806	6	133979725.056342
11EB522640	Capacitor	C235,C271,C311,C36, C450,C49,C493,C495, C500,C503,C518,C74, C90		1.128806	13	63728475.410842
11EB610050	Capacitor	C1,C191,C2,C319, C436		1.128806	5	159367490.199266
121110106Z	Inductor	L11	22.8	7.390033	1	103541776.155981
121110226U	Inductor	L12,L13		4.944252	2	83201062.149749
121111007F	Inductor	L1,L3,L5,L6		4.944252	4	43912872.424775
1211133076	Inductor	L7		4.944252	1	154760964.143460
121114707M	Inductor	L10		4.944252	1	154760964.143460

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1212306030	Inductor	FB1,FB10,FB2,FB28,FB29,FB30,FB31,FB34,FB8		4.944252	9	20443842.451049
1212308054	Inductor	FB17		4.944252	1	154760964.143460
12123C0003	Inductor	FB7		4.944252	1	154760964.143460
12123C0006	Inductor	FB13,FB14,FB15,FB16,FB18,FB5,FB6		4.944252	7	25970990.056682
12123C0014	Inductor	FB22,FB23		4.944252	2	83201062.149749
12123C0029	Inductor	FB11,FB12		4.944252	2	83201062.149749
1214109000	Inductor	L9		4.944252	1	154760964.143460
1214309008	Inductor	CH1,CH2,CH3		4.944252	3	57363284.375370
12310024A0	Miscellaneous	Y4,Y6		19.200000	2	8854051.752197
12310025A2	Miscellaneous	Y7		19.200000	1	23844262.770939
12310025A3	Miscellaneous	Y3		19.200000	1	23844262.770939
12313012A0	Miscellaneous	Y1		19.200000	1	23844262.770939
1231332726	Miscellaneous	Y5		19.200000	1	23844262.770939
1301005444	Semiconductor	D14,D16,D22,D4,D5		7.793411	5	21965031.404253
1301005446	Semiconductor	D1		7.793411	1	92807310.010983
1301010340	Semiconductor	D2		7.793411	1	92807310.010983
1301013040	Semiconductor	D12,D15		7.793411	2	50578095.223398
1301013041	Semiconductor	D17		7.793411	1	92807310.010983
1301793040	Semiconductor	D24		7.793411	1	92807310.010983
1304000044	Optical Device	LED1,LED3		79.003355	2	3783722.582110
1304200043	Optical Device	LED2		79.003355	1	6497172.749112
1305080040	Semiconductor	D10,D11,D18,D19,D20,D21,U51,U55		7.793411	8	14161142.003130
1305240040	Semiconductor	D3,D6,D7,D8,D9,U25,U48		7.793411	7	16052497.121446
1310390413	Semiconductor	Q10		22.463360	1	31642600.748419
1315230511	Semiconductor	Q1,Q24,Q26		22.463360	3	12043329.789539
13156K1N10	Semiconductor	Q14		22.463360	1	31642600.748419
1315700216	Semiconductor	Q11,Q12,Q18,Q19,Q20,Q21,Q22,Q23,Q25,Q3,Q6		22.463360	11	3618924.681337
13157333P0	Semiconductor	Q2,Q5,Q8		22.463360	3	12043329.789539
1315762010	Semiconductor	Q17,Q27		22.463360	2	17315095.066101
1315971500	Semiconductor	U45		22.463360	1	31642600.748419
1430053250	Integrated Circuit	U28,U34		43.803003	2	6834791.244197

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14308075Z0	Integrated Circuit	U8		43.803003	1	11739202.588727
14308239B0	Integrated Circuit	U44		43.803003	1	11739202.588727
143CM20200	Integrated Circuit	U29		43.803003	1	11739202.588727
143MMPF011	Integrated Circuit	U6		43.803003	1	11739202.588727
143WM89620	Integrated Circuit	U20		43.803003	1	11739202.588727
1440010500	Integrated Circuit	U54		43.803003	1	11739202.588727
14401008A1	Integrated Circuit	U32	13.7	19.753178	1	32614006.250212
1440815320	Integrated Circuit	U3	17	136.829743	1	3758044.988472
1440881780	Integrated Circuit	U61	8.9	80.762037	1	6367005.418629
1440IMX6Q1	Integrated Circuit	U41	7.9	30.512296	1	16852626.365030
144LF723A0	Integrated Circuit			26.018600	1	25551442.237972
146128M160	Integrated Circuit	U11,U19		11.063278	2	32567094.099626
146128M160	Integrated Circuit	U38	10.7	17.473863	1	36868223.091453
146128M160	Integrated Circuit	U56	10.7	17.473863	1	36868223.091453
1489IMX601	Integrated Circuit	U9		26.018600	1	25551442.237972
1490080100	Integrated Circuit	U35		43.803003	1	11739202.588727
1490V1T340	Integrated Circuit	U43,U50,U53		43.803003	3	4923240.069161
149AR80330	Integrated Circuit	U7	7.8	75.022527	1	6854105.728380
149G404SL0	Integrated Circuit	U58	29.3	290.091635	1	1772585.858751
14S2202600	Integrated Circuit	U39		43.803003	1	11739202.588727
14S3902500	Integrated Circuit	U14	22.5	192.823564	1	2666750.464119
14S3902500	Integrated Circuit	U16	33.5	370.261976	1	1388779.737867
14S4021301	Integrated Circuit	U1		43.803003	1	11739202.588727
14S4251701	Integrated Circuit	U10	29.3	290.091635	1	1772585.858751
14S4322200	Integrated Circuit	U21		43.803003	1	11739202.588727
14S4814380	Integrated Circuit	U2		43.803003	1	11739202.588727
14S5A00821	Integrated Circuit	U27		26.018600	1	25551442.237972
14S6203205	Integrated Circuit	U15		11.063278	1	58231413.220643
14S6324041	Integrated Circuit	U60	21.6	26.986609	1	23872220.750826
14S6366B00	Integrated Circuit	U40		43.803003	1	11739202.588727
1540510380	Resistor	RP1,RP10,RP11,RP12,RP13,RP2,RP3,RP4		9.971436	8	9424088.116087
1540747285	Resistor	RP14,RP15,RP16,RP17,RP6,RP7,RP8,RP9		9.971436	8	9424088.116087
1600160800	Connection	SW1		16.184835	1	35685591.360212
165250320K	Connection	CN22		16.184835	1	35685591.360212
165251420B	Connection	RJ45_2,RJ45_3		16.184835	2	20390152.380746
1653002101	Connection	JP5		16.184835	1	35685591.360212
1653002201	Connection	JP1		16.184835	1	35685591.360212
1653003101	Connection	JP8,JP9		16.184835	2	20390152.380746
1653003201	Connection	CN5		16.184835	1	35685591.360212

File Name: Boxer-6421.rfp
Assembly: 9697IMX613-D
Ref Des:
Description:

Failure Rate: 6629.581685
MTBF (hrs): 150,839
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1653300102	Connection	JP1(1-2),JP5(1-2), JP8(2-3),JP9(2-3)		16.184835	4	11344857.509064
1654402430	Connection	CN21		16.184835	1	35685591.360212
1654409106	Connection	CN1,CN2		16.184835	2	20390152.380746
165480430A	Connection	CN18,CN19,CN20		16.184835	3	14515880.849373
1654805200	Connection	CN16		16.184835	1	35685591.360212
1654901035	Connection	MSD1		16.184835	1	35685591.360212
1655804032	Connection	CAN_BUS1		16.184835	1	35685591.360212
1655805033	Connection	CN23		16.184835	1	35685591.360212
1655807030	Connection	CN11		16.184835	1	35685591.360212
1655810031	Connection	HPO1		16.184835	1	35685591.360212
1655902034	Connection	RTC1		16.184835	1	35685591.360212
1655905037	Connection	CN8		16.184835	1	35685591.360212
1655909034	Connection	CN17		16.184835	1	35685591.360212
175011901M	Miscellaneous	BAT1B1		306.000000	1	1681683.006787
1752001603	Miscellaneous	F1		2.400000	1	254626042.602335
1752002400	Miscellaneous	FS3		2.400000	1	254626042.602335
1752002500	Miscellaneous	FS1,FS4		2.400000	2	143944727.196625
1752002700	Miscellaneous	FS2		2.400000	1	254626042.602335