

BOXER-6651

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 9915.649317 ppm MTBF: 100,851 Hours
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Issue date

2015/09/08

Approval

KJ Wang

Test Engineer

Aslen Hsieh

Reliability Prediction (MTBF)

I . Model Name: BOXER-6651

II . Prediction Date: SEP. 08, 2015

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

IV . Predicted by: Aslen Hsieh

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-6651 (M/B: 9697BT0204-D):

- Failure Rate: 9915.649317 ppm
- MTBF: 100,851 Hours

**Reliability Prediction
Summary**

File Name: Boxer-6651.rfp
System: 9697BT0204-D
Ref Des:
Description:

Failure Rate: 9915.649317
MTBF (hrs): 100,851
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
Boxer-6651	9697BT0204-D		1	9915.649317	100,851

File Name: Boxer-6651.rfp
Assembly: 9697BT0204-D
Ref Des:
Description:

Failure Rate: 9915.649317
MTBF (hrs): 100,851
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1050500104	Resistor	R27,R89	2.547039	2	6.490186
1050501234	Resistor	R319	2.547039	1	3.541821
1050501634	Resistor	R250	2.547039	1	3.541821
1050502004	Resistor	R351,R57	2.547039	2	6.490186
1050504724	Resistor	R255,R26 1,R262, R302,R55 4,R555, R598	2.547039	7	20.411813
1050504734	Resistor	R285	2.547039	1	3.541821
1050505124	Resistor	R135,R75 2	2.547039	2	6.490186
1050507524	Resistor	R66	2.547039	1	3.541821
1050510034	Resistor	R279,R28 4,R367, R450,R45 5	2.547039	5	14.923560
1050511524	Resistor	R502	2.547039	1	3.541821
1050512414	Resistor	R197,R24 5	2.547039	2	6.490186
1050512734	Resistor	R419	2.547039	1	3.541821
1050516204	Resistor	R276	2.547039	1	3.541821
1050516924	Resistor	R492,R50 6	2.547039	2	6.490186
1050516964	Resistor	R355,R56 8	2.547039	2	6.490186
1050520034	Resistor	R431,R64 8,R649	2.547039	3	9.343982
1050523264	Resistor	R277	2.547039	1	3.541821
1050525514	Resistor	R145	2.547039	1	3.541821
1050526124	Resistor	R493	2.547039	1	3.541821
1050527424	Resistor	R116,R74	2.547039	2	6.490186
1050529464	Resistor	R283	2.547039	1	3.541821
1050530124	Resistor	R113	2.547039	1	3.541821
1050540204	Resistor	R269,R27 2,R306	2.547039	3	9.343982
1050540214	Resistor	R248	2.547039	1	3.541821
1050542204	Resistor	R256	2.547039	1	3.541821
1050545364	Resistor	R242,R60 5	2.547039	2	6.490186
1050547564	Resistor	R251	2.547039	1	3.541821
1050549964	Resistor	R527,R53 1,R534, R537,R53 8,R542, R545,R54 8	2.547039	8	23.134533
1050551034	Resistor	R322	2.547039	1	3.541821

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1050554904	Resistor	R249	2.547039	1	3.541821
1050568124	Resistor	R282	2.547039	1	3.541821
1050573264	Resistor	R309,R310,R311	2.547039	3	9.343982
1050700002	Resistor	R234	2.547039	1	3.541821
1053500489	Resistor	R774	2.547039	1	3.541821
1054500889	Resistor	R552	2.547039	1	3.541821
1054700289	Resistor	R313	2.547039	1	3.541821
1059520001	Resistor	R60	2.547039	1	3.541821
1059700001	Resistor	R708,R709,R71	2.547039	3	9.343982
1059700101	Resistor	R645	2.547039	1	3.541821
1059701001	Resistor	R98	2.547039	1	3.541821
1059702261	Resistor	R980	2.547039	1	3.541821
1059710001	Resistor	R488	2.547039	1	3.541821
105A500139	Resistor	R178,R179,R236,R239,R257,R445,R448,R587,R590,R99	2.547039	10	28.506324
105A500173	Resistor	R193,R194,R195,R235,R238,R246,R252,R275,R299,R300,R318,R325	2.547039	12	33.890167
105A500239	Resistor	R595	2.547039	1	3.541821
105A501003	Resistor	R31	2.547039	1	3.541821
105A501013	Resistor	R667	2.547039	1	3.541821
105A501039	Resistor	R141,R750,R92	2.547039	3	9.343982
105A501053	Resistor	R449,R617	2.547039	2	6.490186
105A501139	Resistor	R247	2.547039	1	3.541821
105A501539	Resistor	R323	2.547039	1	3.541821
105A502039	Resistor	R188,R571,R698,R751	2.547039	4	12.149228
105A502723	Resistor	R668	2.547039	1	3.541821
105A503309	Resistor	R526,R530,R535,R536,R539,R540,R546,R549	2.547039	8	23.134533

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105A505109	Resistor	R224,R225,R226,R227,R600	2.547039	5	14.923560
105A506833	Resistor	R510	2.547039	1	3.541821
105A507509	Resistor	R460,R461,R462	2.547039	3	9.343982
105A508223	Resistor	R619,R659	2.547039	2	6.490186
105A510009	Resistor	R602,R603,R604,R618,R76,R775,R776,R777,R778,R78	2.547039	10	28.506324
105A510733	Resistor	R94	2.547039	1	3.541821
105A512009	Resistor	R700,R701,R726,R728	2.547039	4	12.149228
105A512123	Resistor	R984	2.547039	1	3.541821
105A512133	Resistor	R87	2.547039	1	3.541821
105A515009	Resistor	R175,R451,R452,R453,R620,R623,R630	2.547039	7	20.411813
105A533223	Resistor	R456	2.547039	1	3.541821
105A533269	Resistor	R569	2.547039	1	3.541821
105A535703	Resistor	R615	2.547039	1	3.541821
105A547003	Resistor	R487,R58	2.547039	2	6.490186
105A547509	Resistor	R551	2.547039	1	3.541821
105A548709	Resistor	R241	2.547039	1	3.541821
105A549919	Resistor	R320,R435,R436,R985,R986	2.547039	5	14.923560
105A549969	Resistor	R244,R265,R266,R316,R321	2.547039	5	14.923560
105A561909	Resistor	R237,R240,R714,R715,R716,R717,R718,R719,R720,R721	2.547039	10	28.506324
105A595323	Resistor	R491	2.547039	1	3.541821

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105A700003	Resistor	R176,R218,R230,R232,R264,R270,R307,R433,R500,R589,R609,R63,R636,R65,R710,R711,R733,R734,R747,R779	2.547039	20	55.234238
105A700009	Resistor	R1007,R101,R1011,R102,R103,R104,R105,R106,R107,R108,R112,R114,R122,R124,R171,R189,R190,R191,R192,R199,R201,R204,R205,R223,R228,R231,R233,R255,R253,R254,R258,R259,R263,R267,R297,R30,R304,R314,R317,R328,R329,R330,R331,R332,R333,R334,R352,R354,	2.547039	103	272.088410

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105A700139	Resistor	R1017,R1018,R126,R140,R158,R16,R202,R326,R327,R505,R508,R556,R565	2.547039	13	36.573004
105A701009	Resistor	R611,R616	2.547039	2	6.490186
105A701039	Resistor	R1,R1015,R1016,R109,R110,R111,R125,R127,R128,R129,R130,R131,R151,R161,R162,R163,R164,R165,R166,R167,R168,R170,R172,R173,R180,R196,R198,R206,R207,R208,R209,R220,R23,R243,R273,R287,R298,R301,R32,R335,R337,R339,R342,R343,R344,R345,R346,R347,R3	2.547039	129	339.472043
105A701059	Resistor	R203,R338,R486,R579,R607	2.547039	5	14.923560
105A701069	Resistor	R601	2.547039	1	3.541821
105A702039	Resistor	R187,R592,R594	2.547039	3	9.343982

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105A702229	Resistor	R11,R12,R182,R183,R186,R443,R444,R454,R573,R574,R638,R642,R650,R651,R652,R653,R656,R665,R666,R738,R748,R749	2.547039	22	60.537875
105A703309	Resistor	R115,R119,R152,R217,R437,R446,R457,R463,R464,R504,R507,R631,R637	2.547039	13	36.573004
105A703329	Resistor	R405,R406,R407,R409,R410,R413,R670,R673,R682,R683	2.547039	10	28.506324
105A704729	Resistor	R100,R117,R137,R138,R142,R146,R148,R150,R153,R156,R184,R185,R211,R212,R213,R229,R308,R430,R441,R564,R625,R632,R639,R83,R84	2.547039	25	68.476206
105A705139	Resistor	R17,R18,R36,R5,R52,R53,R54,R55,R6,R7,R8,R9	2.547039	12	33.890167

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105A708229	Resistor	R575,R576	2.547039	2	6.490186
105A710009	Resistor	R15	2.547039	1	3.541821
105A710039	Resistor	R1008,R1009,R1012, R1013,R120,R121, R139,R157,R169, R210,R280,R281, R288,R289,R290, R291,R292,R293, R294,R295,R296, R361,R362,R41,R416, R427,R43,R44,R459, R475,R485,R495, R511,R557,R558, R567,R593,R627, R628,R680,R681, R684,R685,R69,R707, R712,R713,R735,	2.547039	52	139.369016
105A720009	Resistor	R222	2.547039	1	3.541821
105A730039	Resistor	R566	2.547039	1	3.541821
105A733009	Resistor	R13,R14,R159,R20, R22,R29,R3,R336, R477,R480,R481, R482	2.547039	13	36.573004
105A747009	Resistor	R147,R216	2.547039	2	6.490186
106BA01033	Resistor	RT1	7.724580	1	15.094889
1121501680	Capacitor	C268,C566,C645, C647	1.128806	4	5.079407

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1121501691	Capacitor	C1,C100,C103,C104,C107,C108,C109,C101,C125,C128,C134,C135,C137,C139,C140,C142,C143,C144,C145,C147,C148,C149,C151,C152,C153,C156,C157,C158,C159,C160,C162,C163,C164,C165,C166,C167,C168,C169,C170,C171,C172,C173,C174,C175,C176,C177,C178,C182,C18	1.128806	298	341.253826
1124410191	Capacitor	C118,C119,C121,C124,C465,C466,C467,C475,C476,C477,C478,C703,C704	1.128806	13	15.691573
1124418090	Capacitor	C391,C400,C613,C614	1.128806	4	5.079407
1124427091	Capacitor	C184,C434,C443,C449,C453,C489,C490,C491,C602,C628	1.128806	10	12.180111
1124433190	Capacitor	C130	1.128806	1	1.418485

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1124522680	Capacitor	C120,C123	1.128806	2	2.664608
1129622690	Capacitor	C212,C215,C278,C283,C386,C387	1.128806	6	7.463816
1129701791	Capacitor	C106,C115,C189,C264,C339,C5,C58,C65,C68,C74,C79,C80,C81,C82	1.128806	14	16.858773
1129710091	Capacitor	C484,C520,C521,C522	1.128806	4	5.079407
1129710391	Capacitor	C246,C525,C538	1.128806	3	3.883281
1129747090	Capacitor	C734	1.128806	1	1.418485
1169656132	Capacitor	EC1,EC5,EC8,EC9	4.744484	4	21.975190
1181610196	Capacitor	EC2,EC7	4.744484	2	11.621225
1181627197	Capacitor	EC3,EC4	4.744484	2	11.621225
1183610191	Capacitor	EC10,EC6	4.744484	2	11.621225
1189610153	Capacitor	TC2	4.744484	1	6.263191
1189615154	Capacitor	TC1,TC10,TC11,TC12,TC8,TC9	4.744484	6	32.072731
1189622154	Capacitor	TC13,TC14,TC4,TC5,TC6,TC7	4.744484	6	32.072731
1189633151	Capacitor	TC3	4.744484	1	6.263191
11C1501080	Capacitor	C275,C393,C394	1.128806	3	3.883281
11C1539840	Capacitor	C422,C440	1.128806	2	2.664608
11C4501650	Capacitor	C133,C202,C316,C372,C737	1.128806	5	6.274805

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11C4522190	Capacitor	C427,C428,C429,C430,C431,C432,C433,C441,C686,C687,C688,C689,C690,C691,C692,C693	1.128806	16	19.189261
11C4522290	Capacitor	C131,C578,C583,C600,C601,C745,C8	1.128806	7	8.647986
11C4547190	Capacitor	C10,C17,C183,C185,C188,C191,C193,C195,C196,C199,C201,C31,C32,C36,C435,C436,C437,C438,C439,C49,C50	1.128806	25	29.630606
11C4547690	Capacitor	C506,C6,C7,C9	1.128806	4	5.079407
11E1522680	Capacitor	C258,C308,C712,C765	1.128806	3	3.883281
11E2501690	Capacitor	C272,C562,C738	1.128806	3	3.883281
11E2501690	Capacitor	C112,C113,C12,C122,C126,C161,C269,C274,C421,C48,C529,C533,C545,C582,C610,C736,C741,C76,C83	1.128806	19	22.676921

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11E2510010	Capacitor	C129,C132,C136,C146,C150,C280,C291,C298,C30,C303,C401,C468,C527,C543,C544,C55,C550,C553,C62,C669,C67,C735,C77	1.128806	23	27.315400
11E2522060	Capacitor	C557,C561,C739,C740,C766	1.128806	5	6.274805
11E4433090	Capacitor	C155,C471,C472,C473,C474	1.128806	5	6.274805
11E4510020	Capacitor	C575,C580,C742	1.128806	3	3.883281

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11E9501091	Capacitor	C110,C138,C179,C200,C217,C218,C219,C220,C239,C248,C253,C254,C255,C256,C259,C260,C262,C266,C267,C273,C279,C287,C290,C293,C294,C300,C302,C304,C305,C307,C310,C314,C315,C317,C320,C321,C322,C326,C327,C328,C332,C334,C338,C341,C345,C351,C353,C356,	1.128806	84	97.405111

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11E9510050	Capacitor	C101,C102,C111,C141,C186,C33,C34 C35,C377,C402,C442,C464,C470,C481,C482,C486,C492,C497,C499,C528,C541,C591,C592,C593,C594,C61,C621,C622,C635,C636,C637,C638,C642,C643,C657,C670,C681,C685,C697,C75,C99	1.128806	41	48.087311
11E9522790	Capacitor	C397,C399,C463,C534	1.128806	4	5.079407
11E9547060	Capacitor	C210,C211,C216,C222,C319,C343,C348,C354,C360,C619,C620,C629,C632	1.128806	13	15.691573
11E9547630	Capacitor	C296,C299,C498	1.128806	3	3.883281
11E9547790	Capacitor	C231,C64	1.128806	2	2.664608

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11E9610080	Capacitor	C105,C117,C180,C192,C205,C209,C224,C230,C237,C251,C265,C271,C297,C301,C333,C335,C336,C342,C347,C362,C365,C366,C373,C375,C414,C415,C416,C417,C448,C462,C51,C542,C564,C565,C567,C587,C597,C599,C611,C624,C627,C654,C656,C660,C661,C662,C663,C66	1.128806	53	61.880372
11E9622052	Capacitor	C127,C190,C242,C245,C247,C261,C346,C359,C363,C376,C40,C523,C59,C615,C630,C631,C732,C733,C92	1.128806	20	23.837670
11EB647020	Capacitor	C531	1.128806	1	1.418485
121110156D	Inductor	L1,L2	4.944252	2	12.019077
121110226M	Inductor	L3	4.944252	1	6.461578
1211103373	Inductor	L5,L7	4.944252	2	12.019077
1211106867	Inductor	L10	4.944252	1	6.461578
1211110078	Inductor	L6,L8	4.944252	2	12.019077

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121113307B	Inductor	L4,L9	4.944252	2	12.019077
1212306030	Inductor	FB10,FB11,FB12,FB14,FB15,FB16,FB2,FB29,FB3,FB30,FB31,FB32,FB33,FB34,FB4,FB5,FB6,FB7,FB9	4.944252	19	100.357399
1212308054	Inductor	FB1,FB13,FB19	4.944252	3	17.432754
12123A0003	Inductor	FB35	4.944252	1	6.461578
12123D0001	Inductor	FB17,FB18,FB20,FB21,FB22,FB23,FB24,FB25,FB26,FB27,FB28,FB36,FB37	4.944252	13	69.582906
1214109000	Inductor	CH1,CH2,CH24,CH25,CH5,CH6,CH7	4.944252	7	38.504501
1214216190	Inductor	L11	4.944252	1	6.461578
1214309009	Inductor	CH10,CH11,CH16,CH17,CH18,CH19,CH8,CH9	4.944252	8	43.717664
1231324056	Miscellaneous	Y2	19.200000	1	41.938810
123132505D	Miscellaneous	Y3,Y4,Y6	19.200000	3	174.140039
1231332726	Miscellaneous	Y5	19.200000	1	41.938810
12330024A1	Miscellaneous	Y1	19.200000	1	41.938810
1251005055	Semiconductor	U48	13.716825	1	18.964608
1300414841	Semiconductor	D11,D12	7.793411	2	19.771405
1300414848	Semiconductor	D4,D5	7.793411	2	19.771405
1301003440	Semiconductor	D6,D7	7.793411	2	19.771405
1301005444	Semiconductor	D8,D9	7.793411	2	19.771405
1301013040	Semiconductor	D22	7.793411	1	10.775013
1301400642	Semiconductor	D3	7.793411	1	10.775013
1301793040	Semiconductor	D24,D25	7.793411	2	19.771405
1302005641	Semiconductor	D14	7.793411	1	10.775013

File Name: Boxer-6651.rfp
Assembly: 9697BT0204-D
Ref Des:
Description:

Failure Rate: 9915.649317
MTBF (hrs): 100,851
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1304000043	Optical Device	LED4	79.003355	1	153.913100
1304051640	Optical Device	LED2,LED5	79.003355	2	264.289989
1304101340	Optical Device	D13	79.003355	1	153.913100
1304451400	Optical Device	LED3	79.003355	1	153.913100
1305080040	Semiconductor	D15,D16, D17,D18, D19,D20, D21,D26, D27	7.793411	9	78.777081
130533CA40	Semiconductor	D28	7.793411	1	10.775013
1310390410	Semiconductor	Q27	22.463360	1	31.602965
1310390413	Semiconductor	Q18,Q33, Q34,Q56, Q57	22.463360	5	132.418067
1311390612	Semiconductor	Q42,Q44	22.463360	2	57.753076
13150123N0	Semiconductor	Q53,Q54	22.463360	2	57.753076
1315036640	Semiconductor	Q12,Q9	22.463360	2	57.753076
1315230211	Semiconductor	Q28	22.463360	1	31.602965
1315230511	Semiconductor	Q17,Q32, Q46	22.463360	3	83.033515
1315482410	Semiconductor	Q11,Q49, Q6	22.463360	3	83.033515
1315567011	Semiconductor	Q22,Q26	22.463360	2	57.753076
1315667910	Semiconductor	U56	22.463360	1	31.602965
1315700216	Semiconductor	Q15,Q29, Q30,Q31, Q36,Q4,Q 47,Q55	22.463360	8	205.039971
1315720010	Semiconductor	Q20,Q25	22.463360	2	57.753076
1315971500	Semiconductor	U4,U42,U 69	22.463360	3	83.033515
1315D4C500	Semiconductor	Q21,Q23	22.463360	2	57.753076
1315EM6K10	Semiconductor	Q1,Q13,Q 14,Q16,Q 19, Q2,Q24,Q 3,Q37,Q3 8, Q43,Q45, Q48,Q5,Q 7, Q8	22.463360	16	394.664315
1315S4C500	Semiconductor	Q51,Q52	22.463360	2	57.753076
1420020430	Integrated Circuit	U66	43.803003	1	85.184662
1423DV2210	Integrated Circuit	U60	43.803003	1	85.184662
1430959602	Integrated Circuit	U26	43.803003	1	85.184662
143ALC8920	Integrated Circuit	U45	181.321181	1	352.619279
1440002130	Integrated Circuit	U32,U65, U7,U8	223.153208	4	1313.293816

File Name: Boxer-6651.rfp
Assembly: 9697BT0204-D
Ref Des:
Description:

Failure Rate: 9915.649317
MTBF (hrs): 100,851
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1440032040	Integrated Circuit	U52	43.803003	1	85.184662
1440211AT0	Integrated Circuit	U35,U36	29.024277	2	80.556130
1440E38450	Integrated Circuit	U58	34.854490	1	67.782292
1462B651A0	Integrated Circuit	U14	11.063278	1	17.172862
149TB01040	Integrated Circuit	U15,U54, U55	43.803003	3	203.118269
14S2200900	Integrated Circuit	U43	43.803003	1	85.184662
14S3010700	Integrated Circuit	U27	212.597866	1	413.443736
14S3104500	Integrated Circuit	U2,U44,U 46,U47,U4 9, U70,U71, U72	43.803003	8	466.317038
14S3112300	Integrated Circuit	U50	43.803003	1	85.184662
14S3378900	Integrated Circuit	U78	43.803003	1	85.184662
14S3435600	Integrated Circuit	U34	43.803003	1	85.184662
14S3902500	Integrated Circuit	U11	43.803003	1	85.184662
14S3973100	Integrated Circuit	U17	43.803003	1	85.184662
14S4186600	Integrated Circuit	U23	43.803003	1	85.184662
14S4251701	Integrated Circuit	U33	43.803003	1	85.184662
14S4814380	Integrated Circuit	U39,U40	43.803003	2	146.310248
14S4871300	Integrated Circuit	U79,U80	43.803003	2	146.310248
14S4910400	Integrated Circuit	U51	43.803003	1	85.184662
14S5A00601	Integrated Circuit	U81,U82	26.018600	2	70.451049
14S5A00821	Integrated Circuit	U20,U24, U25,U57	26.018600	4	129.921093
14S5A30601	Integrated Circuit	U41,U61, U62	26.018600	3	100.507298
14S6206403	Integrated Circuit		11.063278	1	17.172862
14S7035701	Integrated Circuit	U37	26.018600	1	39.136734
14S7140000	Integrated Circuit	U29,U30	26.018600	2	70.451049
14S7140100	Integrated Circuit	U63,U64	26.018600	2	70.451049
14S7140200	Integrated Circuit	U31	26.018600	1	39.136734
14S9894400	Integrated Circuit	U10	55.377640	1	83.298101
1540722281	Resistor	RP1	9.971436	1	19.377251
1540733085	Resistor	RP2	9.971436	1	19.377251
1601613200	Connection	PW1	16.184835	1	28.022514
1651508010	Connection	CN7	16.184835	1	28.022514
16515A2995	Connection	CN24	16.184835	1	28.022514
1652003101	Connection	CN36	16.184835	1	28.022514
1652514207	Connection	CN33	16.184835	1	28.022514
1652522202	Connection	CN31	16.184835	1	28.022514
1652532207	Connection	CN30	16.184835	1	28.022514
165300210C	Connection	JP7	16.184835	1	28.022514
165300310G	Connection	JP14,JP15 ,JP16, JP17,JP8,J P9	16.184835	6	125.647199

File Name: Boxer-6651.rfp
Assembly: 9697BT0204-D
Ref Des:
Description:

Failure Rate: 9915.649317
MTBF (hrs): 100,851
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Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
165300320K	Connection	JP10,JP11,JP12,JP13	16.184835	4	88.145664
1653300107	Connection	JP10(3-4),JP11(3-4),JP3(2-3)	16.184835	3	68.890067
1653300108	Connection	JP8(1-2)	16.184835	1	28.022514
165330010E	Connection	JP12(3-4),JP13(3-4),JP14(1-2),JP15(1-2),JP16(1-2),JP17(1-2),JP9(1-2)	16.184835	7	144.067792
165390003B	Connection	CN9	16.184835	1	28.022514
1653924110	Connection	CN9	16.184835	1	28.022514
1654226303	Connection	CN18,CN20	16.184835	2	49.043282
1654403930	Connection	CN35	16.184835	1	28.022514
1654418103	Connection	CN2,CN32,CN34	16.184835	3	68.890067
1654808201	Connection	CN4	16.184835	1	28.022514
1654903901	Connection	CN22	16.184835	1	28.022514
1654907004	Connection	CN12	16.184835	1	28.022514
1655003022	Connection	CN15	16.184835	1	28.022514
1655004011	Connection	CN8	16.184835	1	28.022514
1655302025	Connection	CN13,CN16	16.184835	2	49.043282
1655907131	Connection	CN1	16.184835	1	28.022514
1655912032	Connection	CN19	16.184835	1	28.022514
1750113016	Miscellaneous	BT1	306.000000	1	594.642389
1750220323	Miscellaneous	BT1	306.000000	1	594.642389
1752000501	Miscellaneous	FS10,FS6	2.400000	2	6.947111
1752001603	Miscellaneous	FS2,FS3,FS4,FS5	2.400000	4	12.613222
1752001900	Miscellaneous	FS7,FS8	2.400000	2	6.947111
1752002400	Miscellaneous	FS1	2.400000	1	3.927328
1752002500	Miscellaneous	FS9	2.400000	1	3.927328
175910000B	Miscellaneous	BZ1	2.400000	1	3.927328