

BOXER-6301VS

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 19738.222048 ppm MTBF: 50,663 Hours
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Issue date

2015/06/01

Approval

KJ Wang

Test Engineer

Aslen Hsieh

Reliability Prediction (MTBF)

I . Model Name: BOXER-6301VS

II . Prediction Date: June. 01, 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-6301VS (M/B: 9697QM8727-D ; I/O Board: 9697T26302-D, 9697P20D02-D):

- Failure Rate: 19738.222048 ppm

- MTBF: 50,663 Hours

**AAEON Reliability Prediction
Summary**

File Name: BOXER-6301VS.rfp
Duty Cycle: 100
Calculation Model: Telcordia Issue 2
Method: Method I Case 3

Failure Rate: 19738.222048
MTBF (hrs): 50,663
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
Boxer-6301VS	System		1	19738.222048	50,663
GENE-QM87.Rev.A1.0	9697QM8727-D		1	9646.062281	103,669
PER-T263.Rev.A1.0	9697T26302-D		1	9408.597701	106,286
PER-P20D.Rev.A1.0	9697P20D02-D		1	1136.534075	879,868

File Name: BOXER-6301VS.rfp
Assembly: 9697QM8727-D
Ref Des:
Description:

Failure Rate: 9646.062281
MTBF (hrs): 103,669
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050500104	Resistor	R103,R144,R17,R184		2.547039	4	82309758.689546
1050500334	Resistor	R122,R175,R197		2.547039	3	107020754.986850
1050501004	Resistor	R44		2.547039	1	282340674.079668
1050501834	Resistor	R511		2.547039	1	282340674.079668
1050502204	Resistor	R171,R173,R181, R183,R568,R581		2.547039	6	56573956.677649
1050503914	Resistor	R248		2.547039	1	282340674.079668
1050503934	Resistor	R426		2.547039	1	282340674.079668
1050504724	Resistor	R514		2.547039	1	282340674.079668
1050504734	Resistor	R185		2.547039	1	282340674.079668
1050505124	Resistor	R757		2.547039	1	282340674.079668
1050505134	Resistor	R462		2.547039	1	282340674.079668
1050505164	Resistor	R643		2.547039	1	282340674.079668
1050505604	Resistor	R535		2.547039	1	282340674.079668
1050505633	Resistor	R285		2.547039	1	282340674.079668
1050507524	Resistor	R155,R156,R190, R621,R633		2.547039	5	67008142.102588
1050507530	Resistor	R441,R446,R468		2.547039	3	107020754.986850
1050508224	Resistor	R570,R673		2.547039	2	154078778.388085
1050510034	Resistor	R10,R125,R132,R176, R238,R249,R287, R311,R33,R390,R416, R430,R449,R45,R461, R475,R479,R481, R489,R491,R493, R496,R498,R51,R52, R520,R56,R57,R578, R582,R585,R587, R623,R634,R64,R660, R682,R687,R699, R719,R722,R726, R764,R89,R94		2.547039	45	8260575.675294

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1050512104	Resistor	R424,R499		2.547039	2	154078778.388085
1050513034	Resistor	R731		2.547039	1	282340674.079668
1050515034	Resistor	R62		2.547039	1	282340674.079668
1050520004	Resistor	R423,R529		2.547039	2	154078778.388085
1050520034	Resistor	R279,R753		2.547039	2	154078778.388085
1050522034	Resistor	R584		2.547039	1	282340674.079668
1050524004	Resistor	R758		2.547039	1	282340674.079668
1050524904	Resistor	R46,R616,R642,R646		2.547039	4	82309758.689546
1050524934	Resistor	R478		2.547039	1	282340674.079668
1050533034	Resistor	R242,R639		2.547039	2	154078778.388085
1050536514	Resistor	R13		2.547039	1	282340674.079668
1050540224	Resistor	R247		2.547039	1	282340674.079668
1050549904	Resistor	R675,R678		2.547039	2	154078778.388085
1050549964	Resistor	R539,R597,R601		2.547039	3	107020754.986850
1050561934	Resistor	R480		2.547039	1	282340674.079668
1050564904	Resistor	R580		2.547039	1	282340674.079668
1050564914	Resistor	R213		2.547039	1	282340674.079668
1050700002	Resistor	R172,R532		2.547039	2	154078778.388085
1050701504	Resistor	R29,R30,R79		2.547039	3	107020754.986850
1050702734	Resistor	R420		2.547039	1	282340674.079668
1050703334	Resistor	R442,R671,R779		2.547039	3	107020754.986850
1050704304	Resistor	R501,R534		2.547039	2	154078778.388085
1054700289	Resistor	R517		2.547039	1	282340674.079668
1059510001	Resistor	R403		2.547039	1	282340674.079668
1059520001	Resistor	R422		2.547039	1	282340674.079668
1059700001	Resistor	R374,R717		2.547039	2	154078778.388085
105A500139	Resistor	R503,R510,R528,R55,R596,R609,R67		2.547039	7	48991237.965885
105A500239	Resistor	R513		2.547039	1	282340674.079668
105A501003	Resistor	R443		2.547039	1	282340674.079668
105A501039	Resistor	R214,R23,R252,R376,R43,R431,R456,R720,R761,R766		2.547039	10	35079934.879747
105A501539	Resistor	R448,R463		2.547039	2	154078778.388085
105A501829	Resistor	R22,R530		2.547039	2	154078778.388085

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105A502039	Resistor	R210,R220,R225, R260,R393,R447, R453,R512,R515, R547,R631,R644, R749,R755		2.547039	14	25477245.255648
105A502123	Resistor	R121,R174,R196		2.547039	3	107020754.986850
105A503039	Resistor	R206,R221,R245, R546		2.547039	4	82309758.689546
105A505109	Resistor	R265,R540,R544, R553		2.547039	4	82309758.689546
105A506834	Resistor	R385		2.547039	1	282340674.079668
105A507509	Resistor	R381,R382,R383, R523,R533		2.547039	5	67008142.102588
105A510009	Resistor	R261,R266,R267, R388,R537,R541, R552,R554		2.547039	8	43225424.698300
105A510223	Resistor	R455,R744		2.547039	2	154078778.388085
105A510733	Resistor	R435		2.547039	1	282340674.079668
105A513009	Resistor	R524,R70		2.547039	2	154078778.388085
105A515009	Resistor	R159,R160,R161, R318,R330,R346		2.547039	6	56573956.677649
105A520003	Resistor	R212		2.547039	1	282340674.079668
105A521003	Resistor	R304,R305,R306		2.547039	3	107020754.986850
105A522623	Resistor	R68		2.547039	1	282340674.079668
105A522669	Resistor	R595		2.547039	1	282340674.079668
105A530113	Resistor	R737		2.547039	1	282340674.079668
105A536503	Resistor	R495		2.547039	1	282340674.079668
105A547529	Resistor	R129,R182,R201		2.547039	3	107020754.986850
105A549919	Resistor	R364		2.547039	1	282340674.079668
105A553629	Resistor	R186,R756		2.547039	2	154078778.388085
105A554969	Resistor	R58		2.547039	1	282340674.079668
105A569823	Resistor	R379		2.547039	1	282340674.079668
105A580623	Resistor	R457		2.547039	1	282340674.079668

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105A700003	Resistor	R153,R180,R188, R198,R240,R372, R391,R429,R451, R465,R483,R486, R509,R566,R588, R591,R61,R612,R632, R641,R710,R727, R740,R741,R748, R751,R774,R777,R86		2.547039	29	12652760.276502
105A700009	Resistor	R124,R127,R141, R147,R177,R179, R192,R194,R202, R204,R21,R215,R216, R234,R237,R24,R246, R25,R255,R258,R26, R264,R27,R270,R271, R282,R288,R309,R32, R322,R326,R327,R34, R340,R341,R344, R349,R351,R355, R384,R389,R40,R41, R418,R428,R452, R469,R474,R477,R49, R		2.547039	87	4337508.502880

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A700139	Resistor	R235,R268,R286, R302,R315,R334, R392,R404,R432, R433,R450,R460, R466,R492,R500, R522,R526,R527,R54, R557,R625,R627,R63, R672,R702,R708, R728,R739,R88		2.547039	29	12652760.276502
105A701009	Resistor	R19		2.547039	1	282340674.079668
105A701039	Resistor	R101,R107,R112, R114,R14,R15,R170, R199,R205,R208, R217,R219,R222, R223,R224,R229, R251,R253,R254, R262,R263,R269, R272,R273,R274, R275,R276,R277, R278,R280,R281, R291,R292,R293, R295,R296,R297, R298,R299,R303,R300, R301,R312,R314, R317,R319,R323, R325,R333		2.547039	108	3508066.726535

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105A701059	Resistor	R126,R128,R131, R163,R236,R283,R35, R504		2.547039	8	43225424.698300
105A701069	Resistor	R211		2.547039	1	282340674.079668
105A702229	Resistor	R11,R12,R137,R138, R139,R140,R143, R148,R157,R162, R218,R564,R569, R571,R577,R665, R677,R742,R743		2.547039	19	19019185.781770
105A702269	Resistor	R118,R154,R187		2.547039	3	107020754.986850
105A703309	Resistor	R110,R149,R158, R195,R200,R203, R209,R284,R289, R307,R310,R329, R335,R336,R337, R405,R406,R407, R408,R409,R410, R411,R412,R434, R438,R472,R763, R765,R767		2.547039	29	12652760.276502
105A703329	Resistor	R250,R256,R257, R320,R352,R444, R454,R538,R669		2.547039	9	38754445.632391
105A704334	Resistor	R303		2.547039	1	282340674.079668

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A704729	Resistor	R102,R109,R113, R115,R116,R117, R119,R241,R313, R324,R367,R369, R370,R394,R395, R396,R397,R398, R399,R400,R401, R413,R417,R419, R711,R752		2.547039	26	14061076.827148
105A704739	Resistor	R361		2.547039	1	282340674.079668
105A705139	Resistor	R290,R308,R583, R586,R593,R600, R635,R636		2.547039	8	43225424.698300
105A706209	Resistor	R525		2.547039	1	282340674.079668
105A708229	Resistor	R378,R604,R605, R606,R615,R656, R694,R754		2.547039	8	43225424.698300
105A710009	Resistor	R4		2.547039	1	282340674.079668
105A710039	Resistor	R228,R230,R231, R232,R233,R516, R549		2.547039	7	48991237.965885
105A715009	Resistor	R614,R760		2.547039	2	154078778.388085
105A730009	Resistor	R464		2.547039	1	282340674.079668
105A733009	Resistor	R16,R358,R359,R38, R735,R736,R768,R9		2.547039	8	43225424.698300
105A747009	Resistor	R164,R165,R7		2.547039	3	107020754.986850
106B501033	Resistor	RT2,RT3,RT4		2.547039	3	107020754.986850
106B510030	Resistor	RT1		2.547039	1	282340674.079668
1121501690	Capacitor	C102		1.128806	1	704977644.692287

**Reliability Prediction
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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1121501691	Capacitor	C10,C100,C101,C105,C111,C113,C115,C116,C117,C118,C119,C12,C122,C124,C126,C127,C138,C139,C145,C146,C147,C149,C15,C150,C151,C152,C153,C157,C158,C16,C160,C162,C163,C164,C165,C166,C167,C168,C17,C170,C172,C173,C175,C176,C177,C178,C18,C181,C182,C1		1.128806	160	5429554.958534
1124410191	Capacitor	C133,C191,C192,C193,C197,C224,C236,C562,C572,C581,C587,C588		1.128806	12	68856937.301178
1124418090	Capacitor	C137,C144,C96,C97		1.128806	4	196873384.410843
1124427091	Capacitor	C186,C205,C209,C212		1.128806	4	196873384.410843
1124433190	Capacitor	C29		1.128806	1	704977644.692287
1124547290	Capacitor	C265		1.128806	1	704977644.692287
1129701790	Capacitor	C120,C142		1.128806	2	375289731.076049

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1129701791	Capacitor	C20,C21,C22,C23,C251,C252,C253,C254,C280,C353,C383,C384,C396,C398,C42,C44,C475,C483,C506,C590		1.128806	20	41950408.034165
1129710091	Capacitor	C179,C190,C202,C246,C247,C248,C565,C566,C593,C9		1.128806	10	82101057.548118
1129710391	Capacitor	C148,C156,C159,C261,C293,C315,C36,C77		1.128806	8	101746760.035398
1129727293	Capacitor	C141		1.128806	1	704977644.692287
1129747091	Capacitor	C43		1.128806	1	704977644.692287
1182615090	Capacitor	TC1,TC2		4.744484	2	86049450.747498
1189615154	Capacitor	TC11,TC12,TC13,TC21,TC22,TC3,TC4		4.744484	7	26949727.707925
1189622154	Capacitor	TC16,TC19,TC20,TC5,TC6,TC7,TC8		4.744484	7	26949727.707925
1189633193	Capacitor	TC10,TC23		4.744484	2	86049450.747498
1189922181	Capacitor	TC9		4.744484	1	159663026.715137
1189933180	Capacitor	TC17	32.5	8.275607	1	91536323.185236
1189933180	Capacitor	TC18		4.744484	1	159663026.715137
11C1501050	Capacitor	C322,C354,C426		1.128806	3	257514172.353070
11C1501080	Capacitor	C244		1.128806	1	704977644.692287
11C1515440	Capacitor	C108,C134,C85		1.128806	3	257514172.353070
11C1522390	Capacitor	C143,C41,C443		1.128806	3	257514172.353070
11C1539840	Capacitor	C522		1.128806	1	704977644.692287
11C2410480	Capacitor	C450		1.128806	1	704977644.692287
11C2510480	Capacitor	C103,C128,C76		1.128806	3	257514172.353070
11C2522480	Capacitor	C106,C26,C406		1.128806	3	257514172.353070

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11C4501380	Capacitor	C317,C340,C374		1.128806	3	257514172.353070
11C4522190	Capacitor	C341,C350,C360,C369,C376,C380,C393,C399,C434,C445,C459,C464,C471,C479,C482,C487,C493,C494,C504,C507,C510,C517,C518,C521,C540,C549,C563,C567,C568,C569,C570,C571		1.128806	32	26512863.286539
11C4522290	Capacitor	C109,C25,C276,C306,C320,C63,C88		1.128806	7	115633865.771428
11C4547190	Capacitor	C13,C207,C220,C222,C281,C298,C542,C553,C554,C561,C94		1.128806	11	74892583.279796
11E1510050	Capacitor	C11,C174,C31,C319,C34,C37,C54		1.128806	7	115633865.771428
11E1522680	Capacitor	C180,C40,C435		1.128806	3	257514172.353070
11E1533780	Capacitor	C263		1.128806	1	704977644.692287
11E1547650	Capacitor	C286		1.128806	1	704977644.692287
11E2510060	Capacitor	C110,C316,C318,C321,C323,C330,C401,C64,C89		1.128806	9	90863428.080946
11E4433090	Capacitor	C530,C536		1.128806	2	375289731.076049

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11E9501091	Capacitor	C107,C112,C130, C131,C132,C14, C154,C194,C199,C201, C204,C232,C233, C234,C235,C238, C241,C257,C267, C270,C273,C274, C277,C290,C291, C296,C324,C325, C326,C327,C328, C329,C331,C339, C346,C355,C356, C358,C362,C371, C373,C375,C377, C381,C382,C392, C394,C395,C		1.128806	97	8906904.137688
11E9510050	Capacitor	C215,C216,C218, C219		1.128806	4	196873384.410843
11E9522790	Capacitor	C135,C169,C249		1.128806	3	257514172.353070
11E9547681	Capacitor	C260		1.128806	1	704977644.692287
11E9547790	Capacitor	C289		1.128806	1	704977644.692287

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Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11E9610080	Capacitor	C104,C121,C123, C125,C155,C161, C171,C203,C221, C228,C24,C256,C266, C282,C285,C287, C288,C3,C332,C337, C338,C349,C357, C361,C363,C368, C370,C372,C379, C385,C386,C387, C400,C405,C416, C423,C427,C440, C449,C45,C457,C461, C476,C48,C490,C509, C513,C514,C515,		1.128806	63	13632557.733278
11E9622050	Capacitor	C114,C208,C32,C333, C334,C335,C336, C364,C365,C366,C38, C388,C389,C390, C391,C4,C403,C417, C418,C419,C422, C453,C454,C455, C456,C463,C5,C523, C529		1.128806	29	29193260.380640
121110106G	Inductor	L8		4.944252	1	154760964.143460
121110156J	Inductor	L1		4.944252	1	154760964.143460
121110156K	Inductor	L2		4.944252	1	154760964.143460
121110156K	Inductor	L7		4.944252	1	154760964.143460
1211102470	Inductor	L3,L6		4.944252	2	83201062.149749
1211102470	Inductor	L4	39.1	9.531673	1	80277315.697655

File Name: BOXER-6301VS.rfp
Assembly: 9697QM8727-D
Ref Des:
Description:

Failure Rate: 9646.062281
MTBF (hrs): 103,669
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
121110476Q	Inductor	L10		4.944252	1	154760964.143460
1211147070	Inductor	L5		4.944252	1	154760964.143460
1212306030	Inductor	FB1,FB16,FB18,FB19,FB21,FB28,FB29,FB38,FB7		4.944252	9	20443842.451049
1212308054	Inductor	FB32		4.944252	1	154760964.143460
121231206B	Inductor	FB10,FB14,FB15,FB2,FB22,FB27,FB3,FB4,FB5,FB8,FB9		4.944252	11	16872203.304846
12123C0007	Inductor	FB26		4.944252	1	154760964.143460
12123D0001	Inductor	FB11,FB12,FB13		4.944252	3	57363284.375370
12123D0002	Inductor	FB17,FB33,FB34,FB37,FB39,FB40		4.944252	6	30055900.223009
1214309008	Inductor	CH1,CH10,CH11,CH12,CH2,CH3,CH4,CH5,CH6,CH7,CH8,CH9		4.944252	12	15520616.516984
1214309009	Inductor	CH13,CH14,CH15, CH16		4.944252	4	43912872.424775
123132505D	Miscellaneous	Y1,Y3,Y4		19.200000	3	5742504.738137
1231332726	Miscellaneous	Y2		19.200000	1	23844262.770939
1301005444	Semiconductor	D1,D15,D18,D2,D23,D4,D5,D6		7.793411	8	14161142.003130
1301013040	Semiconductor	D12,D29		7.793411	2	50578095.223398
1301400642	Semiconductor	D13		7.793411	1	92807310.010983
1304000043	Optical Device	LED2		79.003355	1	6497172.749112
1304300140	Optical Device	LED1		79.003355	1	6497172.749112
1304500240	Optical Device	LED3		79.003355	1	6497172.749112
1305080040	Semiconductor	D19,D20,D21,D22,D30,D32,D33		7.793411	7	16052497.121446
1310390413	Semiconductor	Q36		22.463360	1	31642600.748419
1311390612	Semiconductor	Q49,Q50		22.463360	2	17315095.066101
1314111716	Semiconductor	U40,U51		22.463360	2	17315095.066101
1315190100	Semiconductor	U60		22.463360	1	31642600.748419
1315230511	Semiconductor	Q10,Q11,Q13,Q15,Q17,Q24,Q27,Q39		22.463360	8	4877097.849338

File Name: BOXER-6301VS.rfp
Assembly: 9697QM8727-D
Ref Des:
Description:

Failure Rate: 9646.062281
MTBF (hrs): 103,669
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1315443512	Semiconductor	Q44,Q62,Q7		22.463360	3	12043329.789539
1315482410	Semiconductor	Q22,Q25,Q57		22.463360	3	12043329.789539
1315667910	Semiconductor	Q8		22.463360	1	31642600.748419
1315700216	Semiconductor	Q12,Q16,Q18,Q19,Q20,Q23,Q26,Q28,Q29,Q3,Q32,Q33,Q34,Q35,Q37,Q38,Q4,Q40,Q41,Q42,Q43,Q45,Q46,Q47,Q48,Q54,Q55,Q56,Q58,Q59,Q61,Q9		22.463360	32	1300932.597594
1315762010	Semiconductor	Q31		22.463360	1	31642600.748419
1315805710	Semiconductor	Q6		22.463360	1	31642600.748419
1315806511	Semiconductor	Q5		22.463360	1	31642600.748419
1315831310	Semiconductor	Q14,Q30		22.463360	2	17315095.066101
1315970211	Semiconductor	U44,U46,U54		22.463360	3	12043329.789539
1430973740	Integrated Circuit	U12,U18		43.803003	2	6834791.244197
1430973740	Integrated Circuit	U15	44.2	671.280590	1	766016.978515
14351631A0	Integrated Circuit	U6		43.803003	1	11739202.588727
143ALC8920	Integrated Circuit	U39	26.3	242.764123	1	2118156.191350
1440033600	Integrated Circuit	U57	26.5	245.688618	1	2092943.226601
1440211AT0	Integrated Circuit	U34		43.803003	1	11739202.588727
1440217LM0	Integrated Circuit	U36		43.803003	1	11739202.588727
14454402E0	Integrated Circuit	U17	31.5	76.672734	1	6706586.566247
14482QM870	Integrated Circuit	U21		43.803003	1	11739202.588727
1462B301A0	Integrated Circuit	U7		11.063278	1	58231413.220643
1469128350	Integrated Circuit			11.063278	1	58231413.220643
14S1035803	Integrated Circuit	U3		43.803003	1	11739202.588727
14S2200900	Integrated Circuit	U35		43.803003	1	11739202.588727
14S2321900	Integrated Circuit	U43		43.803003	1	11739202.588727
14S3010700	Integrated Circuit	U19	21.8	184.705267	1	2783961.380381
14S3104500	Integrated Circuit	D10,D11,D16,D17,D31,D7,D8,D9		43.803003	8	2144463.783749
14S3111701	Integrated Circuit	U47		43.803003	1	11739202.588727
14S3121600	Integrated Circuit	U63		43.803003	1	11739202.588727
14S3121800	Integrated Circuit	U61		43.803003	1	11739202.588727
14S3524700	Integrated Circuit	U1		43.803003	1	11739202.588727
14S4021301	Integrated Circuit	U16,U23,U37		43.803003	3	4923240.069161
14S4186600	Integrated Circuit	U13		43.803003	1	11739202.588727

File Name: BOXER-6301VS.rfp
Assembly: 9697QM8727-D
Ref Des:
Description:

Failure Rate: 9646.062281
MTBF (hrs): 103,669
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
14S4814380	Integrated Circuit	U32		43.803003	1	11739202.588727
14S5A00601	Integrated Circuit	U42,U49		26.018600	2	14194252.866846
14S5A00704	Integrated Circuit	U27,U50,U53		26.018600	3	9949526.289768
14S5A00802	Integrated Circuit	U24,U25,U28		26.018600	3	9949526.289768
14S5A00821	Integrated Circuit	U10,U30,U33 ,U4,U48, U56		26.018600	6	5329254.552198
14S5A12503	Integrated Circuit	U64		26.018600	1	25551442.237972
14S9108500	Integrated Circuit	U26,U29,U31 ,U45, U52		43.803003	5	3214211.402100
14S9230500	Integrated Circuit	U22		43.803003	1	11739202.588727
14S9312500	Integrated Circuit	U8		43.803003	1	11739202.588727
14S9346000	Integrated Circuit	U5		43.803003	1	11739202.588727
1540747285	Resistor	RP1		9.971436	1	51606907.671214
16515A2990	Connection	DIMM1		16.184835	1	35685591.360212
165251420B	Connection	CN29,CN30		16.184835	2	20390152.380746
1652602105	Connection	CN8		16.184835	1	35685591.360212
165300310G	Connection	JP1,JP10,JP3 ,JP4, JP5,JP9		16.184835	6	7958792.615968
165300320K	Connection	JP11		16.184835	1	35685591.360212
165300420Q	Connection	CN11		16.184835	1	35685591.360212
165300520X	Connection	CN28		16.184835	1	35685591.360212
165320520W	Connection	CN9		16.184835	1	35685591.360212
1653300102	Connection	JP1(2-3),JP4 (2-3)		16.184835	2	20390152.380746
1653300107	Connection	JP11(3- 4),JP3(2-3), JP5(2-3)		16.184835	3	14515880.849373
1653300108	Connection	JP10(1- 2),JP9(1-2)		16.184835	2	20390152.380746
165390003B	Connection	CFD1B		16.184835	1	35685591.360212
1653924110	Connection	CFD1A		16.184835	1	35685591.360212
1654030003	Connection	CN14		16.184835	1	35685591.360212
1654226303	Connection	PCIE1A		16.184835	1	35685591.360212
1654400910	Connection	CN33		16.184835	1	35685591.360212
1654415308	Connection	CN35		16.184835	1	35685591.360212
1654818301	Connection	CN31		16.184835	1	35685591.360212
1654903901	Connection	CN36		16.184835	1	35685591.360212
1654907009	Connection	CN6,CN7		16.184835	2	20390152.380746
1654926900	Connection	PCIE1B		16.184835	1	35685591.360212
1655003028	Connection	CN4		16.184835	1	35685591.360212
1655004014	Connection	CN5		16.184835	1	35685591.360212
1655302025	Connection	CN3		16.184835	1	35685591.360212
1655305025	Connection	CN10		16.184835	1	35685591.360212
1655306025	Connection	CN25		16.184835	1	35685591.360212
1655306026	Connection	CN1		16.184835	1	35685591.360212
1655902034	Connection	BAT1A		16.184835	1	35685591.360212

**Reliability Prediction
Summary**

File Name: BOXER-6301VS.rfp
Assembly: 9697QM8727-D
Ref Des:
Description:

Failure Rate: 9646.062281
MTBF (hrs): 103,669
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1655905038	Connection	CN12,CN13,C N16, CN17,CN18,C N19		16.184835	6	7958792.615968
1655909034	Connection	CN21,CN22,C N24		16.184835	3	14515880.849373
1655910032	Connection	CN32		16.184835	1	35685591.360212
1655912032	Connection	CN23		16.184835	1	35685591.360212
175011301C	Miscellaneous	BAT1B		306.000000	1	1681683.006787
1752000501	Miscellaneous	FS3		2.400000	1	254626042.602335
1752001603	Miscellaneous	FS1,FS2,FS4, FS5		2.400000	4	79281882.025954
175910000B	Connection	BZ1		16.184835	1	35685591.360212

File Name: BOXER-6301VS.rfp
Assembly: 9697T26302-D
Ref Des:
Description:

Failure Rate: 9408.597701
MTBF (hrs): 106,286
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050501004	Resistor	R106		2.547039	1	282340674.079668
1050501032	Resistor	R21		2.547039	1	282340674.079668
1050504724	Resistor	R102,R103,R104		2.547039	3	107020754.986850
1050504760	Resistor	R37		2.547039	1	282340674.079668
1050520034	Resistor	R1		2.547039	1	282340674.079668
1050588704	Resistor	R69		2.547039	1	282340674.079668
105270000A	Resistor	R118		2.547039	1	282340674.079668
1053502579	Resistor	CR1		2.547039	1	282340674.079668
1054500889	Resistor	R10		2.547039	1	282340674.079668
1059500131	Resistor	R29		2.547039	1	282340674.079668
1059500161	Resistor	R35		2.547039	1	282340674.079668
1059547531	Resistor	R7		2.547039	1	282340674.079668
1059700001	Resistor	R115		2.547039	1	282340674.079668
105A500103	Resistor	RS1A1,RS1B1,RS1C1,RS1D1,RS2A1,RS2B1,RS2C1,RS2D1,RS3A1,RS3B1,RS3C1,RS3D1,RS4A1,RS4B1,RS4C1,RS4D1		2.547039	16	22425139.809646
105A500133	Resistor	R116		2.547039	1	282340674.079668
105A501003	Resistor	R11,R12		2.547039	2	154078778.388085
105A501539	Resistor	R5		2.547039	1	282340674.079668
105A505109	Resistor	R4		2.547039	1	282340674.079668
105A505633	Resistor	R24		2.547039	1	282340674.079668
105A510053	Resistor	R40,R42,R44,R46		2.547039	4	82309758.689546
105A510723	Resistor	R107		2.547039	1	282340674.079668
105A512033	Resistor	R3		2.547039	1	282340674.079668
105A512123	Resistor	R19,R9		2.547039	2	154078778.388085
105A516923	Resistor	R8		2.547039	1	282340674.079668
105A522623	Resistor	R108,R6		2.547039	2	154078778.388085
105A524919	Resistor	R63,R83		2.547039	2	154078778.388085
105A530003	Resistor	R41,R43,R47,R48		2.547039	4	82309758.689546
105A533213	Resistor	R22		2.547039	1	282340674.079668
105A539223	Resistor	R18		2.547039	1	282340674.079668
105A547523	Resistor	R33		2.547039	1	282340674.079668
105A551033	Resistor	R110,R26,R27,R28, R31		2.547039	5	67008142.102588
105A554933	Resistor	R111		2.547039	1	282340674.079668
105A564933	Resistor	R109		2.547039	1	282340674.079668
105A580603	Resistor	R32		2.547039	1	282340674.079668

File Name: BOXER-6301VS.rfp
Assembly: 9697T26302-D
Ref Des:
Description:

Failure Rate: 9408.597701
MTBF (hrs): 106,286
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A586623	Resistor	R17		2.547039	1	282340674.079668
105A700003	Resistor	R112,R113		2.547039	2	154078778.388085
105A700009	Resistor	R100,R101,R105,R2,R30,R34,R86,R87,R88,R89,R90,R91,R92,R93,R94,R95,R96,R97,R98,R99		2.547039	20	18104712.511396
105A701033	Resistor	R14		2.547039	1	282340674.079668
105A701039	Resistor	R65,R66,R80		2.547039	3	107020754.986850
105A701523	Resistor	R85		2.547039	1	282340674.079668
105A702263	Resistor	R13		2.547039	1	282340674.079668
105A722009	Resistor	R78,R79,R81,R84		2.547039	4	82309758.689546
105A733009	Resistor	R68,R70,R82		2.547039	3	107020754.986850
105A747033	Resistor	R76		2.547039	1	282340674.079668
1114610192	Capacitor	C104,C105,C2		1.128806	3	257514172.353070
1119615090	Capacitor	C50		1.128806	1	704977644.692287
1119682090	Capacitor	C19,C20,C21		1.128806	3	257514172.353070
1121415090	Capacitor	C24		1.128806	1	704977644.692287
1121501691	Capacitor	C55,C58,C6,C61,C62,C63,C64,C65,C66,C67,C69,C73,C74,C76,C78,C80,C81,C82,C85,C86,C87,C88,C89,C90,C91,C92,C94,C98		1.128806	28	30212160.975569
1121610180	Capacitor	C23		1.128806	1	704977644.692287
1124410190	Capacitor	C5,C8		1.128806	2	375289731.076049
1124427091	Capacitor	C56,C57,C97,C99		1.128806	4	196873384.410843
1124501750	Capacitor	C102		1.128806	1	704977644.692287
1124522280	Capacitor	C41		1.128806	1	704977644.692287
1124522680	Capacitor	C107		1.128806	1	704977644.692287
1129701791	Capacitor	C100,C101,C93,C95		1.128806	4	196873384.410843
1129710390	Capacitor	C14		1.128806	1	704977644.692287
1169656132	Capacitor	C9		1.128806	1	704977644.692287
1189610153	Capacitor	TC1		4.744484	1	159663026.715137

File Name: BOXER-6301VS.rfp
Assembly: 9697T26302-D
Ref Des:
Description:

Failure Rate: 9408.597701
MTBF (hrs): 106,286
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11C2510480	Capacitor	C26		1.128806	1	704977644.692287
11C4501050	Capacitor	C108		1.128806	1	704977644.692287
11C4501650	Capacitor	C1,C103,C13 ,C28, C32,C4,C7		1.128806	7	115633865.771428
11C4510280	Capacitor	C27,C33		1.128806	2	375289731.076049
11C4547690	Capacitor	C25,C3,C30, C31		1.128806	4	196873384.410843
11C5501650	Capacitor	C16,C29		1.128806	2	375289731.076049
11C5510190	Capacitor	C35		1.128806	1	704977644.692287
11C5522690	Capacitor	C17,C18		1.128806	2	375289731.076049
11C5522760	Capacitor	C39,C44,C45 ,C46, C47		1.128806	5	159367490.199266
11C5547420	Capacitor	C48,C49		1.128806	2	375289731.076049
11C9510050	Capacitor	C83		1.128806	1	704977644.692287
11C9510490	Capacitor	C11,C43		1.128806	2	375289731.076049
11E1510050	Capacitor	C109,C42		1.128806	2	375289731.076049
11E1547650	Capacitor	C34		1.128806	1	704977644.692287
11E9501091	Capacitor	C70		1.128806	1	704977644.692287
11E9547680	Capacitor	C54		1.128806	1	704977644.692287
11E9610080	Capacitor	C77,C84		1.128806	2	375289731.076049
11E9610190	Capacitor	C36		1.128806	1	704977644.692287
11E9622050	Capacitor	C37,C38		1.128806	2	375289731.076049
11E9622052	Capacitor	C53		1.128806	1	704977644.692287
11E9622060	Capacitor	C10		1.128806	1	704977644.692287
11E9622080	Capacitor	C79		1.128806	1	704977644.692287
11E9647680	Capacitor	C60,C96		1.128806	2	375289731.076049
1211100113	Inductor	L4	64.1	13.477575	1	56774096.791463
1211100113	Inductor	L5		4.944252	1	154760964.143460
1211100116	Inductor	L2		4.944252	1	154760964.143460
1211102206	Inductor	L1		4.944252	1	154760964.143460
121110226H	Inductor	L6		4.944252	1	154760964.143460
1211110009	Inductor	L3		4.944252	1	154760964.143460
1212306030	Inductor	FB1,FB11,FB 14,FB17, FB9		4.944252	5	35631881.582999
1212308054	Inductor	FB12,FB15,F B18, FB20,FB22,F B23, FB26,FB27		4.944252	8	22874049.098230
1212312063	Inductor	FB2,FB3		4.944252	2	83201062.149749
123132505D	Miscellaneous	Y1,Y2		19.200000	2	8854051.752197
1300010440	Semiconductor	D10,D11,D13 ,D4,D5, D6,D7,D8,D9		7.793411	9	12694047.317505
1300414848	Semiconductor	D15,D3		7.793411	2	50578095.223398
1301003440	Semiconductor	D2		7.793411	1	92807310.010983
1304001340	Optical Device	LED5,LED6		79.003355	2	3783722.582110

File Name: BOXER-6301VS.rfp
Assembly: 9697T26302-D
Ref Des:
Description:

Failure Rate: 9408.597701
MTBF (hrs): 106,286
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1304200043	Optical Device	LED3		79.003355	1	6497172.749112
1304300140	Optical Device	LED2		79.003355	1	6497172.749112
1305005840	Semiconductor	D12		7.793411	1	92807310.010983
130533CA40	Semiconductor	D14		7.793411	1	92807310.010983
1311009210	Semiconductor	Q5,Q6	38.9	58.570645	2	6640787.569605
1314111711	Integrated Circuit	U10		43.803003	1	11739202.588727
1315012010	Semiconductor	Q11,Q12,Q13,Q14		22.463360	4	9270607.712006
13150123N0	Semiconductor	Q2,Q3		22.463360	2	17315095.066101
1315035210	Semiconductor	Q10,Q7,Q8,Q9		22.463360	4	9270607.712006
1315251211	Semiconductor	Q4		22.463360	1	31642600.748419
1315714810	Semiconductor	Q15,Q16		22.463360	2	17315095.066101
1315746510	Semiconductor	Q1		22.463360	1	31642600.748419
1430037860	Integrated Circuit	U2		43.803003	1	11739202.588727
1430038030	Integrated Circuit	U3		43.803003	1	11739202.588727
1430042660	Integrated Circuit	U4		43.803003	1	11739202.588727
1440081520	Integrated Circuit	U9		43.803003	1	11739202.588727
1440083050	Integrated Circuit	U11		43.803003	1	11739202.588727
14S3436500	Integrated Circuit	U13		43.803003	1	11739202.588727
14S5382400	Integrated Circuit	U1		43.803003	1	11739202.588727
14S6216060	Integrated Circuit	U7		43.803003	1	11739202.588727
1652852200	Connection	CN4		16.184835	1	35685591.360212
1655302020	Connection	CN7		16.184835	1	35685591.360212
1655404120	Connection	CN1		16.184835	1	35685591.360212
1655902030	Connection	CN2,CN6		16.184835	2	20390152.380746
1655904030	Connection	CN5		16.184835	1	35685591.360212
1655905032	Connection	CN3		16.184835	1	35685591.360212
1752001900	Miscellaneous	FS1,FS2		2.400000	2	143944727.196625
1050501004	Resistor	R195		2.547039	1	282340674.079668
1050501234	Resistor	R92		2.547039	1	282340674.079668
1050501834	Resistor	R580		2.547039	1	282340674.079668
1050502004		R203		0.000000	1	0.000000
1050502204	Resistor	R517		2.547039	1	282340674.079668
1050504724	Resistor	R534		2.547039	1	282340674.079668
1050504764	Resistor	R132,R301		2.547039	2	154078778.388085
1050505124	Resistor	R411		2.547039	1	282340674.079668
1050505633	Resistor	R585		2.547039	1	282340674.079668
1050507524	Resistor	R140,R477		2.547039	2	154078778.388085
1050507530	Resistor	R121,R329,R96		2.547039	3	107020754.986850

File Name: BOXER-6301VS.rfp
Assembly: 9697T26302-D
Ref Des:
Description:

Failure Rate: 9408.597701
MTBF (hrs): 106,286
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050510034	Resistor	R162,R202,R258, R356,R395,R461, R485,R537,R626, R632,R635,R750		2.547039	12	29507083.749401
1050511009	Resistor	R247		2.547039	1	282340674.079668
1050512104	Resistor	R130,R367		2.547039	2	154078778.388085
1050513034	Resistor	R143,R300,R573		2.547039	3	107020754.986850
1050518034	Resistor	R574		2.547039	1	282340674.079668
1050520004	Resistor	R388		2.547039	1	282340674.079668
1050522114	Resistor	R564		2.547039	1	282340674.079668
1050524904	Resistor	R122		2.547039	1	282340674.079668
1050524924	Resistor	R749		2.547039	1	282340674.079668
1050560434	Resistor	R495		2.547039	1	282340674.079668
1050561934	Resistor	R548		2.547039	1	282340674.079668
1050569824	Resistor	R339		2.547039	1	282340674.079668
1050590964	Resistor	R230,R254,R263, R433		2.547039	4	82309758.689546
1050703334	Resistor	R563		2.547039	1	282340674.079668
1059700001	Resistor	R107		2.547039	1	282340674.079668
105A500139	Resistor	R105,R106,R120,R3, R354,R355,R363, R364,R493,R524,R55		2.547039	11	32049696.385471
105A500239	Resistor	R289,R376,R577		2.547039	3	107020754.986850
105A500333	Resistor	R384		2.547039	1	282340674.079668
105A501039	Resistor	R110,R125,R296, R306,R365,R387, R409,R436,R489, R546,R557,R558, R566,R570,R571, R579,R581,R583, R624,R650,R660		2.547039	21	17274945.076062
105A501529	Resistor	R576		2.547039	1	282340674.079668
105A501539	Resistor	R90		2.547039	1	282340674.079668
105A501623	Resistor	R236		2.547039	1	282340674.079668

File Name: BOXER-6301VS.rfp
Assembly: 9697T26302-D
Ref Des:
Description:

Failure Rate: 9408.597701
MTBF (hrs): 106,286
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A502039	Resistor	R4,R68		2.547039	2	154078778.388085
105A503309	Resistor	R238,R245,R257, R265,R270,R271, R272,R283,R284, R428,R467		2.547039	11	32049696.385471
105A505109	Resistor	R158,R197,R198, R199,R200,R201		2.547039	6	56573956.677649
105A505163	Resistor	R358		2.547039	1	282340674.079668
105A505629	Resistor	R545,R575,R582		2.547039	3	107020754.986850
105A507509	Resistor	R555		2.547039	1	282340674.079668
105A510009	Resistor	R133,R246,R316, R372,R373,R374, R375,R39,R427,R504, R512,R514,R531, R547,R57		2.547039	15	23852782.943395
105A513009	Resistor	R552		2.547039	1	282340674.079668
105A515009	Resistor	R248,R249,R250		2.547039	3	107020754.986850
105A522669	Resistor	R118,R204		2.547039	2	154078778.388085
105A527403	Resistor	R112		2.547039	1	282340674.079668
105A528723	Resistor	R415		2.547039	1	282340674.079668
105A531613	Resistor	R131		2.547039	1	282340674.079668
105A533269	Resistor	R117		2.547039	1	282340674.079668
105A549919	Resistor	R510,R515,R520		2.547039	3	107020754.986850
105A549969	Resistor	R464,R465		2.547039	2	154078778.388085
105A551119	Resistor	R565		2.547039	1	282340674.079668
105A560469	Resistor	R171,R208		2.547039	2	154078778.388085
105A561909	Resistor	R297		2.547039	1	282340674.079668
105A561924	Resistor	R549		2.547039	1	282340674.079668
105A561933	Resistor	R351		2.547039	1	282340674.079668
105A562034	Resistor	R505		2.547039	1	282340674.079668
105A568103	Resistor	R266		2.547039	1	282340674.079668
105A573223	Resistor	R392		2.547039	1	282340674.079668

**Reliability Prediction
Summary**

File Name: BOXER-6301VS.rfp
Assembly: 9697T26302-D
Ref Des:
Description:

Failure Rate: 9408.597701
MTBF (hrs): 106,286
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A700003	Resistor	C83,R108,R129,R362,R393,R420,R498,R513,R536,R654,R656,R658		2.547039	12	29507083.749401
105A700009	Resistor	C501,C510,C73,R10,R109,R124,R127,R13,R134,R135,R136,R137,R138,R139,R141,R142,R145,R146,R148,R149,R151,R155,R161,R163,R167,R169,R180,R186,R189,R196,R2,R206,R207,R212,R219,R220,R221,R222,R223,R224,R226,R227,R235,R244,R253,R26,R276,R278,R279, R		2.547039	126	3014741.579367

**Reliability Prediction
Summary**

File Name: BOXER-6301VS.rfp
Assembly: 9697T26302-D
Ref Des:
Description:

Failure Rate: 9408.597701
MTBF (hrs): 106,286
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A700139	Resistor	R114,R119,R166, R168,R178,R211, R214,R215,R232, R234,R242,R282, R291,R303,R326, R330,R332,R337, R338,R346,R438, R457,R459,R46, R460,R491,R499, R518, R521,R56,R609, R91, R93,R98		2.547039	34	10846303.620910
105A701003	Resistor	R394,R594		2.547039	2	154078778.388085
105A701039	Resistor	R100,R101,R102, R103,R111,R116, R12,R172,R177, R183, R184,R188,R190, R191,R192,R193, R210,R228,R229, R255,R264,R268, R285,R286,R308, R309,R314,R318, R331,R334,R335, R348,R353,R357, R361,R38,R382, R383, R389,R390,R391, R397,R406,R407, R41, R419,R426,R434, R44,		2.547039	99	3821035.116675

File Name: BOXER-6301VS.rfp
Assembly: 9697T26302-D
Ref Des:
Description:

Failure Rate: 9408.597701
MTBF (hrs): 106,286
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A701059	Resistor	R176,R252,R378, R379,R380,R381, R487,R492,R623, R625,R633		2.547039	11	32049696.385471
105A701069	Resistor	R156,R439		2.547039	2	154078778.388085
105A702229	Resistor	R147,R175,R181, R216,R237,R239, R269,R34,R35,R36, R408,R412,R445, R448,R458,R481, R482,R94		2.547039	18	20032117.836120
105A702263	Resistor	R1,R313,R350		2.547039	3	107020754.986850
105A703363	Resistor	R404		2.547039	1	282340674.079668
105A704709	Resistor	R128,R243,R423, R424		2.547039	4	82309758.689546
105A704723	Resistor	R366		2.547039	1	282340674.079668
105A704729	Resistor	R104,R123,R144, R150,R154,R194, R256,R290,R304, R320,R328,R340, R352,R430,R431, R550,R590,R591, R659		2.547039	19	19019185.781770
105A704733	Resistor	R21,R22,R23,R24, R25		2.547039	5	67008142.102588
105A704739	Resistor	R317,R342,R532		2.547039	3	107020754.986850
105A704763	Resistor	R586,R587		2.547039	2	154078778.388085
105A705129	Resistor	R746		2.547039	1	282340674.079668
105A705139	Resistor	R187,R40,R496,R511, R572,R8		2.547039	6	56573956.677649
105A706829	Resistor	R617,R619,R620, R628,R629		2.547039	5	67008142.102588
105A707509	Resistor	R231		2.547039	1	282340674.079668

**Reliability Prediction
Summary**

File Name: BOXER-6301VS.rfp
Assembly: 9697T26302-D
Ref Des:
Description:

Failure Rate: 9408.597701
MTBF (hrs): 106,286
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A708229	Resistor	R173,R213,R359, R422,R429,R455,R60, R61,R62,R63,R64, R65,R66,R67,R75, R76,R77,R78,R79, R80,R81,R82,R83, R84,R85,R86,R87		2.547039	27	13557741.157915
105A710039	Resistor	R275,R292,R293, R307,R490,R533		2.547039	6	56573956.677649
105A733009	Resistor	R185,R315		2.547039	2	154078778.388085
105A739039	Resistor	R164		2.547039	1	282340674.079668
106B501032	Resistor	RT1,RT2,RT4,RT5		7.724580	4	21923287.146155
1121501690	Capacitor	C339,C346,C347, C349,C350,C361, C371,C435,C440, C441,C442,C443, C444,C445,C446		1.128806	15	55479656.844874

**Reliability Prediction
Summary**

File Name: BOXER-6301VS.rfp
Assembly: 9697T26302-D
Ref Des:
Description:

Failure Rate: 9408.597701
MTBF (hrs): 106,286
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1121501691	Capacitor	C104,C105,C109, C110,C111,C112, C113,C114,C115, C116,C117,C118, C119,C121,C124, C125,C127,C128, C129,C130,C134, C158,C159,C160, C166,C167,C169, C170,C171,C179, C180,C181,C189,C19, C193,C195,C198, C199,C20,C201,C202, C203,C205,C23,C235, C24,C242,C250,C252,		1.128806	180	4831624.536724
1121701790	Capacitor	C342,C343,C344, C345,C351,C355, C357,C358,C359, C364,C365,C436,C437		1.128806	13	63728475.410842
1122701680	Capacitor	C176,C186,C192		1.128806	3	257514172.353070
1124412080	Capacitor	C360,C373		1.128806	2	375289731.076049
1124418090	Capacitor	C67,C68,C93,C94		1.128806	4	196873384.410843
1124427090	Capacitor	C303,C304		1.128806	2	375289731.076049
1124427091	Capacitor	C284,C287,C51		1.128806	3	257514172.353070
1124468090	Capacitor	C294,C366		1.128806	2	375289731.076049
1124522190	Capacitor	C292,C356		1.128806	2	375289731.076049
1129610051	Capacitor	C305,C308,C315, C326,C332,C439		1.128806	6	133979725.056342

File Name: BOXER-6301VS.rfp
Assembly: 9697T26302-D
Ref Des:
Description:

Failure Rate: 9408.597701
MTBF (hrs): 106,286
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1129622690	Capacitor	C161,C165,C213,C39,C40,C41,C42,C78,C95		1.128806	9	90863428.080946
1129701791	Capacitor	C139,C140,C141,C142,C148,C149,C150,C151,C163,C22,C243,C262,C32,C33,C47,C49,C58,C86		1.128806	18	46478509.590073
1129710091	Capacitor	C244,C251,C255		1.128806	3	257514172.353070
1129710391	Capacitor	C162,C28,C352,C353		1.128806	4	196873384.410843
1129722091	Capacitor	C426,C434		1.128806	2	375289731.076049
1182622080	Capacitor	TC16,TC17,TC7		4.744484	3	59399119.141203
1189615151	Capacitor	TC10,TC11,TC4		4.744484	3	59399119.141203
1189622150	Capacitor	TC2		4.744484	1	159663026.715137
1189627150	Capacitor	TC13,TC14,TC15,TC18		4.744484	4	45505862.704531
1189633163	Capacitor	TC1,TC12,TC3,TC8,TC9		4.744484	5	36944177.000623
1189633193	Capacitor	TC5,TC6		4.744484	2	86049450.747498
1189647180	Capacitor	EC11		4.744484	1	159663026.715137
11A4433180	Capacitor	C45		1.128806	1	704977644.692287
11C2501790	Capacitor	C191,C194,C314,C336		1.128806	4	196873384.410843
11C2510480	Capacitor	C122,C126,C136,C137		1.128806	4	196873384.410843
11C4501790	Capacitor	C71		1.128806	1	704977644.692287
11C4547290	Capacitor	C21,C48		1.128806	2	375289731.076049
11E1510050	Capacitor	C188		1.128806	1	704977644.692287
11E1522680	Capacitor	C375,C376		1.128806	2	375289731.076049
11E2510060	Capacitor	C168,C172,C183,C184,C197,C204,C293		1.128806	7	115633865.771428
11E2647650	Capacitor	C100,C101,C102,C133,C135		1.128806	5	159367490.199266
11E9501090	Capacitor	C11,C131,C16,C173,C177,C190		1.128806	6	133979725.056342

File Name: BOXER-6301VS.rfp
Assembly: 9697T26302-D
Ref Des:
Description:

Failure Rate: 9408.597701
MTBF (hrs): 106,286
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11E9501091	Capacitor	BC33,C10,C138,C144,C152,C174,C185,C200,C206,C207,C208,C211,C214,C218,C220,C221,C222,C224,C225,C227,C228,C231,C232,C233,C234,C236,C240,C241,C245,C248,C249,C25,C263,C264,C267,C268,C275,C348,C370,C389,C392,C415,C61,C69,C77,C8,C80,C81,C84,C87		1.128806	50	17113035.871263
11E9510051	Capacitor	C1,C103,C132,C15,C153,C154,C155,C156,C157,C164,C175,C182,C2,C209,C246,C266,C27,C285,C29,C3,C4,C5,C6,C7,C85,C96,C98,C99		1.128806	28	30212160.975569
11E9547680	Capacitor	C187,C311,C334		1.128806	3	257514172.353070
11E9610080	Capacitor	C212,C397,C398,C407,C416,C417,C425		1.128806	7	115633865.771428

File Name: BOXER-6301VS.rfp
Assembly: 9697T26302-D
Ref Des:
Description:

Failure Rate: 9408.597701
MTBF (hrs): 106,286
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11E9622050	Capacitor	C210,C215,C216, C217,C219,C265, C307,C318,C337,C38		1.128806	10	82101057.548118
11E9622080	Capacitor	C388		1.128806	1	704977644.692287
11E9647680	Capacitor	C106,C107,C108,C74		1.128806	4	196873384.410843
1211100113	Inductor	L10,L11,L13, L8		4.944252	4	43912872.424775
121110106G	Inductor	L6		4.944252	1	154760964.143460
121110106M	Inductor	L14		4.944252	1	154760964.143460
121110156K	Inductor	L1,L2,L9		4.944252	3	57363284.375370
121110336L	Inductor	L12		4.944252	1	154760964.143460
1212306030	Inductor	FB1,FB10,FB13,FB14, FB2,FB25,FB26,FB27, FB28,FB29,F B3,FB4, FB6,FB8,FB9		4.944252	15	12521115.446963
1212308054	Inductor	PB2		4.944252	1	154760964.143460
12123C0003	Inductor	FB7		4.944252	1	154760964.143460
123131435J	Miscellaneous	Y5		19.200000	1	23844262.770939
1231324054	Miscellaneous	Y3		19.200000	1	23844262.770939
123132505D	Miscellaneous	Y6		19.200000	1	23844262.770939
1231327053	Miscellaneous	Y2,Y8		19.200000	2	8854051.752197
1231332721	Miscellaneous	Y1		19.200000	1	23844262.770939
1231332722	Miscellaneous	Y4		19.200000	1	23844262.770939
1301003240	Semiconductor	D34		7.793411	1	92807310.010983
1301005440	Semiconductor	D16,D24,D30		7.793411	3	35106858.962001
1301005442	Semiconductor	D32		7.793411	1	92807310.010983
1301005444	Semiconductor	D1,D10,D11, D18,D2, D3,D4,D5		7.793411	8	14161142.003130
1301005447	Semiconductor	D19,D31		7.793411	2	50578095.223398
1301005450	Semiconductor	D12,D13,D14, D15, D17,D20,D21, D22, D23,D6,D7,D8,D9		7.793411	13	8953033.829657
1304001340	Optical Device	D29		79.003355	1	6497172.749112
1304101340	Optical Device	D25		79.003355	1	6497172.749112
1305099140	Semiconductor	D26,D27		7.793411	2	50578095.223398
1310390413	Semiconductor	Q14,Q15,Q70,Q8,Q9		22.463360	5	7551839.591592
1311138610	Semiconductor	Q24,Q25		22.463360	2	17315095.066101

File Name: BOXER-6301VS.rfp
Assembly: 9697T26302-D
Ref Des:
Description:

Failure Rate: 9408.597701
MTBF (hrs): 106,286
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1311390610	Semiconductor	Q7		22.463360	1	31642600.748419
1311390612	Semiconductor	Q16		22.463360	1	31642600.748419
1314108412	Semiconductor	U33		22.463360	1	31642600.748419
1314917314	Semiconductor	U41		22.463360	1	31642600.748419
1315030110	Semiconductor	Q4,Q5		22.463360	2	17315095.066101
1315230511	Semiconductor	Q23,Q69		22.463360	2	17315095.066101
1315422410	Semiconductor	U11,U2		22.463360	2	17315095.066101
1315482110	Semiconductor	U24,U28,U32		22.463360	3	12043329.789539
1315482410	Semiconductor	U31		22.463360	1	31642600.748419
1315667910	Semiconductor	U16,U25,U29 ,U34,U4		22.463360	5	7551839.591592
1315700216	Semiconductor	Q1,Q11,Q12, Q13,Q17, Q18,Q19,Q2, Q20,Q21, Q22,Q26,Q3, Q6,Q68		22.463360	15	2694825.052176
1315700217	Semiconductor	Q28,Q29,Q3 0,Q31, Q32		22.463360	5	7551839.591592
1315762010	Semiconductor	U21,U22		22.463360	2	17315095.066101
1440D25500	Integrated Circuit	U14		21.706765	1	23689035.791249
1462A913A0	Integrated Circuit	U12		11.063278	1	58231413.220643
14E06913A0	Integrated Circuit	U15	69.2	133.627573	1	4821087.979191
14S2321900	Integrated Circuit	U23		43.803003	1	11739202.588727
14S2591200	Integrated Circuit	U3,U43		43.803003	2	6834791.244197
14S3050100	Integrated Circuit	U20		43.803003	1	11739202.588727
14S3111600	Integrated Circuit	U1		43.803003	1	11739202.588727
14S3112400	Integrated Circuit	U9		43.803003	1	11739202.588727
14S3621601	Integrated Circuit	U7		43.803003	1	11739202.588727
14S3816700	Integrated Circuit	U26		43.803003	1	11739202.588727
14S4001000	Integrated Circuit	U13		43.803003	1	11739202.588727
14S4020002	Integrated Circuit	U42		43.803003	1	11739202.588727
14S4258300	Integrated Circuit	U27		43.803003	1	11739202.588727
14S4851800	Integrated Circuit	U35		43.803003	1	11739202.588727
14S5A00702	Integrated Circuit	U36		26.018600	1	25551442.237972
14S5A00704	Integrated Circuit	U47		26.018600	1	25551442.237972
14S5A00821	Integrated Circuit	U17,U18,U19 ,U50		26.018600	4	7696979.559193
14S5A12503	Integrated Circuit	U39	51.3	181.107624	1	3670815.926190
14S5A12506	Integrated Circuit	U30		26.018600	1	25551442.237972
14S6203204	Integrated Circuit			11.063278	1	58231413.220643
14S6216060	Integrated Circuit			11.063278	1	58231413.220643
14S6225050	Integrated Circuit	U52		11.063278	1	58231413.220643
14S6308002	Integrated Circuit			11.063278	1	58231413.220643
14S6399044	Integrated Circuit	U48		43.803003	1	11739202.588727
14S63CCV00	Integrated Circuit	U40		11.063278	1	58231413.220643
14S9330600	Integrated Circuit	U53,U54		43.803003	2	6834791.244197

File Name: BOXER-6301VS.rfp
Assembly: 9697T26302-D
Ref Des:
Description:

Failure Rate: 9408.597701
MTBF (hrs): 106,286
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
14S9751100	Integrated Circuit	U49		43.803003	1	11739202.588727
14S9781800	Integrated Circuit	U8		43.803003	1	11739202.588727
14S9894400	Integrated Circuit	U45		43.803003	1	11739202.588727
1600030803	Connection	SW1(10N)		16.184835	1	35685591.360212
16515A2991	Connection	DIMM1		16.184835	1	35685591.360212
1651900860	Connection	U15		16.184835	1	35685591.360212
1653212100	Connection	CN1		16.184835	1	35685591.360212
16540M0000	Connection	CN4,CN6		16.184835	2	20390152.380746
1654903030	Connection	CN5		16.184835	1	35685591.360212
1655902122	Connection	BAT1		16.184835	1	35685591.360212
1655907130	Connection	CN2		16.184835	1	35685591.360212
1050501004	Resistor	R106		2.547039	1	282340674.079668
1050501032	Resistor	R21		2.547039	1	282340674.079668
1050504724	Resistor	R102,R103,R104		2.547039	3	107020754.986850
1050504760	Resistor	R37		2.547039	1	282340674.079668
1050520034	Resistor	R1		2.547039	1	282340674.079668
1050588704	Resistor	R69		2.547039	1	282340674.079668
105270000A	Resistor	R118		2.547039	1	282340674.079668
1053502579	Resistor	CR1		2.547039	1	282340674.079668
1054500889	Resistor	R10		2.547039	1	282340674.079668
1059500131	Resistor	R29		2.547039	1	282340674.079668
1059500161	Resistor	R35		2.547039	1	282340674.079668
1059547531	Resistor	R7		2.547039	1	282340674.079668
1059700001	Resistor	R115		2.547039	1	282340674.079668
105A500103	Resistor	RS1A1,RS1B1,RS1C1,RS1D1,RS2A1,RS2B1,RS2C1,RS2D1,RS3A1,RS3B1,RS3C1,RS3D1,RS4A1,RS4B1,RS4C1,RS4D1		2.547039	16	22425139.809646
105A500133	Resistor	R116		2.547039	1	282340674.079668
105A501003	Resistor	R11,R12		2.547039	2	154078778.388085
105A501539	Resistor	R5		2.547039	1	282340674.079668
105A505109	Resistor	R4		2.547039	1	282340674.079668
105A505633	Resistor	R24		2.547039	1	282340674.079668
105A510053	Resistor	R40,R42,R44,R46		2.547039	4	82309758.689546
105A510723	Resistor	R107		2.547039	1	282340674.079668
105A512033	Resistor	R3		2.547039	1	282340674.079668
105A512123	Resistor	R19,R9		2.547039	2	154078778.388085
105A516923	Resistor	R8		2.547039	1	282340674.079668
105A522623	Resistor	R108,R6		2.547039	2	154078778.388085

File Name: BOXER-6301VS.rfp
Assembly: 9697T26302-D
Ref Des:
Description:

Failure Rate: 9408.597701
MTBF (hrs): 106,286
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A524919	Resistor	R63,R83		2.547039	2	154078778.388085
105A530003	Resistor	R41,R43,R47, R48		2.547039	4	82309758.689546
105A533213	Resistor	R22		2.547039	1	282340674.079668
105A539223	Resistor	R18		2.547039	1	282340674.079668
105A547523	Resistor	R33		2.547039	1	282340674.079668
105A551033	Resistor	R110,R26,R2 7,R28, R31		2.547039	5	67008142.102588
105A554933	Resistor	R111		2.547039	1	282340674.079668
105A564933	Resistor	R109		2.547039	1	282340674.079668
105A580603	Resistor	R32		2.547039	1	282340674.079668
105A586623	Resistor	R17		2.547039	1	282340674.079668
105A700003	Resistor	R112,R113		2.547039	2	154078778.388085
105A700009	Resistor	R100,R101,R 105,R2, R30,R34,R86 ,R87, R88,R89,R90 ,R91, R92,R93,R94 ,R95, R96,R97,R98 ,R99		2.547039	20	18104712.511396
105A701033	Resistor	R14		2.547039	1	282340674.079668
105A701039	Resistor	R65,R66,R80		2.547039	3	107020754.986850
105A701523	Resistor	R85		2.547039	1	282340674.079668
105A702263	Resistor	R13		2.547039	1	282340674.079668
105A722009	Resistor	R78,R79,R81 ,R84		2.547039	4	82309758.689546
105A733009	Resistor	R68,R70,R82		2.547039	3	107020754.986850
105A747033	Resistor	R76		2.547039	1	282340674.079668
1114610192	Capacitor	C104,C105,C 2		1.128806	3	257514172.353070
1119615090	Capacitor	C50		1.128806	1	704977644.692287
1119682090	Capacitor	C19,C20,C21		1.128806	3	257514172.353070
1121415090	Capacitor	C24		1.128806	1	704977644.692287
1121501691	Capacitor	C55,C58,C6, C61,C62, C63,C64,C65 ,C66, C67,C69,C73 ,C74, C76,C78,C80 ,C81, C82,C85,C86 ,C87, C88,C89,C90 ,C91, C92,C94,C98		1.128806	28	30212160.975569
1121610180	Capacitor	C23		1.128806	1	704977644.692287

File Name: BOXER-6301VS.rfp
Assembly: 9697T26302-D
Ref Des:
Description:

Failure Rate: 9408.597701
MTBF (hrs): 106,286
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1124410190	Capacitor	C5,C8		1.128806	2	375289731.076049
1124427091	Capacitor	C56,C57,C97,C99		1.128806	4	196873384.410843
1124501750	Capacitor	C102		1.128806	1	704977644.692287
1124522280	Capacitor	C41		1.128806	1	704977644.692287
1124522680	Capacitor	C107		1.128806	1	704977644.692287
1129701791	Capacitor	C100,C101,C93,C95		1.128806	4	196873384.410843
1129710390	Capacitor	C14		1.128806	1	704977644.692287
1169656132	Capacitor	C9		1.128806	1	704977644.692287
1189610153	Capacitor	TC1		4.744484	1	159663026.715137
11C2510480	Capacitor	C26		1.128806	1	704977644.692287
11C4501050	Capacitor	C108		1.128806	1	704977644.692287
11C4501650	Capacitor	C1,C103,C13,C28,C32,C4,C7		1.128806	7	115633865.771428
11C4510280	Capacitor	C27,C33		1.128806	2	375289731.076049
11C4547690	Capacitor	C25,C3,C30,C31		1.128806	4	196873384.410843
11C5501650	Capacitor	C16,C29		1.128806	2	375289731.076049
11C5510190	Capacitor	C35		1.128806	1	704977644.692287
11C5522690	Capacitor	C17,C18		1.128806	2	375289731.076049
11C5522760	Capacitor	C39,C44,C45,C46,C47		1.128806	5	159367490.199266
11C5547420	Capacitor	C48,C49		1.128806	2	375289731.076049
11C9510050	Capacitor	C83		1.128806	1	704977644.692287
11C9510490	Capacitor	C11,C43		1.128806	2	375289731.076049
11E1510050	Capacitor	C109,C42		1.128806	2	375289731.076049
11E1547650	Capacitor	C34		1.128806	1	704977644.692287
11E9501091	Capacitor	C70		1.128806	1	704977644.692287
11E9547680	Capacitor	C54		1.128806	1	704977644.692287
11E9610080	Capacitor	C77,C84		1.128806	2	375289731.076049
11E9610190	Capacitor	C36		1.128806	1	704977644.692287
11E9622050	Capacitor	C37,C38		1.128806	2	375289731.076049
11E9622052	Capacitor	C53		1.128806	1	704977644.692287
11E9622060	Capacitor	C10		1.128806	1	704977644.692287
11E9622080	Capacitor	C79		1.128806	1	704977644.692287
11E9647680	Capacitor	C60,C96		1.128806	2	375289731.076049
1211100113	Inductor	L4,L5	64.1	13.477575	2	30522329.592517
1211100116	Inductor	L2		4.944252	1	154760964.143460
1211102206	Inductor	L1		4.944252	1	154760964.143460
121110226H	Inductor	L6		4.944252	1	154760964.143460
1211110009	Inductor	L3		4.944252	1	154760964.143460
1212306030	Inductor	FB1,FB11,FB14,FB17, FB9		4.944252	5	35631881.582999

File Name: BOXER-6301VS.rfp
Assembly: 9697T26302-D
Ref Des:
Description:

Failure Rate: 9408.597701
MTBF (hrs): 106,286
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1212308054	Inductor	FB12,FB15,F B18, FB20,FB22,F B23, FB26,FB27		4.944252	8	22874049.098230
1212312063	Inductor	FB2,FB3		4.944252	2	83201062.149749
123132505D	Miscellaneous	Y1,Y2		19.200000	2	8854051.752197
1300010440	Semiconductor	D10,D11,D13 ,D4,D5, D6,D7,D8,D9		7.793411	9	12694047.317505
1300414848	Semiconductor	D15,D3		7.793411	2	50578095.223398
1301003440	Semiconductor	D2		7.793411	1	92807310.010983
1304001340	Optical Device	LED5,LED6		79.003355	2	3783722.582110
1304200043	Optical Device	LED3		79.003355	1	6497172.749112
1304300140	Optical Device	LED2		79.003355	1	6497172.749112
1305005840	Semiconductor	D12		7.793411	1	92807310.010983
130533CA40	Semiconductor	D14		7.793411	1	92807310.010983
1311009210	Semiconductor	Q5,Q6		22.463360	2	17315095.066101
1314111711	Integrated Circuit	U10		43.803003	1	11739202.588727
1315012010	Semiconductor	Q11,Q12,Q1 3,Q14		22.463360	4	9270607.712006
13150123N0	Semiconductor	Q2,Q3		22.463360	2	17315095.066101
1315035210	Semiconductor	Q10,Q7,Q8,Q 9		22.463360	4	9270607.712006
1315251211	Semiconductor	Q4		22.463360	1	31642600.748419
1315714810	Semiconductor	Q15,Q16		22.463360	2	17315095.066101
1315746510	Semiconductor	Q1		22.463360	1	31642600.748419
1430037860	Integrated Circuit	U2		43.803003	1	11739202.588727
1430038030	Integrated Circuit	U3		43.803003	1	11739202.588727
1430042660	Integrated Circuit	U4		43.803003	1	11739202.588727
1440081520	Integrated Circuit	U9		43.803003	1	11739202.588727
1440083050	Integrated Circuit	U11		43.803003	1	11739202.588727
14S3436500	Integrated Circuit	U13		43.803003	1	11739202.588727
14S5382400	Integrated Circuit	U1		43.803003	1	11739202.588727
14S6216060	Integrated Circuit	U7		43.803003	1	11739202.588727
1652852200	Connection	CN4		16.184835	1	35685591.360212
1655302020	Connection	CN7		16.184835	1	35685591.360212
1655404120	Connection	CN1		16.184835	1	35685591.360212
1655902030	Connection	CN2,CN6		16.184835	2	20390152.380746
1655904030	Connection	CN5		16.184835	1	35685591.360212
1655905032	Connection	CN3		16.184835	1	35685591.360212
1752001900	Miscellaneous	FS1,FS2		2.400000	2	143944727.196625

File Name: BOXER-6301VS.rfp
Assembly: 9697P20D02-D
Ref Des:
Description:

Failure Rate: 1136.534075
MTBF (hrs): 879,868
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050504734	Resistor	R1,R14,R15, R31,R32, R33,R34,R35 ,R36, R37,R38,R39 ,R42		2.547039	13	27342571.921361
1050510034	Resistor	R19,R20,R21 ,R23, R26,R27,R28 ,R43, R44,R48,R52 ,R54, R57,R62		2.547039	14	25477245.255648
1050520044	Resistor	R65		2.547039	1	282340674.079668
1053502579	Resistor	R59,R60		2.547039	2	154078778.388085
1059500131	Resistor	R64		2.547039	1	282340674.079668
1059501261	Resistor	R45		2.547039	1	282340674.079668
105A501039	Resistor	R25,R30,R40 ,R61, R63		2.547039	5	67008142.102588
105A501139	Resistor	R50		2.547039	1	282340674.079668
105A501333	Resistor	R24		2.547039	1	282340674.079668
105A501539	Resistor	R16,R7		2.547039	2	154078778.388085
105A509123	Resistor	R58		2.547039	1	282340674.079668
105A512039	Resistor	R13,R8		2.547039	2	154078778.388085
105A515433	Resistor	R49		2.547039	1	282340674.079668
105A519623	Resistor	R18		2.547039	1	282340674.079668
105A522123	Resistor	R22		2.547039	1	282340674.079668
105A523713	Resistor	R56		2.547039	1	282340674.079668
105A533223	Resistor	R29		2.547039	1	282340674.079668
105A544214	Resistor	R11		2.547039	1	282340674.079668
105A575003	Resistor	R6		2.547039	1	282340674.079668
105A584523	Resistor	R66		2.547039	1	282340674.079668
105A700003	Resistor	R68		2.547039	1	282340674.079668
105A700009	Resistor	R17,R51,R53 ,R55		2.547039	4	82309758.689546
105A701009	Resistor	R10,R46,R47 ,R9		2.547039	4	82309758.689546
105A701059	Resistor	R12		2.547039	1	282340674.079668
1114633130	Capacitor	C21,C22,C8		1.128806	3	257514172.353070
1124410190	Capacitor	C27,C37		1.128806	2	375289731.076049
1129610051	Capacitor	C13,C26,C38 ,C40		1.128806	4	196873384.410843
1129701790	Capacitor	C18,C28,C39		1.128806	3	257514172.353070
1129747090	Capacitor	C32		1.128806	1	704977644.692287
1181633112	Capacitor	C30,C31		4.744484	2	86049450.747498
11C1522480	Capacitor	C35,C36		1.128806	2	375289731.076049
11C1547890	Capacitor	C24		1.128806	1	704977644.692287

File Name: BOXER-6301VS.rfp
Assembly: 9697P20D02-D
Ref Des:
Description:

Failure Rate: 1136.534075
MTBF (hrs): 879,868
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11C4501650	Capacitor	C1,C11,C14, C15,C19, C25,C3,C33, C4,C41, C42,C6,C9		1.128806	13	63728475.410842
11C4547690	Capacitor	C2,C20,C23, C5,C7		1.128806	5	159367490.199266
11E1522680	Capacitor	C12,C16,C17		1.128806	3	257514172.353070
11E2510060	Capacitor	C29,C34		1.128806	2	375289731.076049
1211100110	Inductor	L2		4.944252	1	154760964.143460
1214216190	Inductor	L1		4.944252	1	154760964.143460
1300414841	Semiconductor	D13,D14,D4, D5,D6		7.793411	5	21965031.404253
1301003440	Semiconductor	D8,D9		7.793411	2	50578095.223398
1301003640	Semiconductor	D10,D11		7.793411	2	50578095.223398
1301005442	Semiconductor	D12		7.793411	1	92807310.010983
1305050040	Semiconductor	D7		7.793411	1	92807310.010983
130533CA50	Semiconductor	D1		7.793411	1	92807310.010983
1305SMF330	Semiconductor	D15		7.793411	1	92807310.010983
1310390410	Semiconductor	Q4,Q5,Q7,Q8		22.463360	4	9270607.712006
1315567011	Semiconductor	Q10,Q11,Q1 2,Q13,Q2, Q3		22.463360	6	6378891.324740
1315700211	Semiconductor	Q14,Q6,Q9		22.463360	3	12043329.789539
1410029600	Integrated Circuit	U7		43.803003	1	11739202.588727
1440019360	Integrated Circuit	U3		43.803003	1	11739202.588727
14S3378000	Integrated Circuit	U4		43.803003	1	11739202.588727
14S3435600	Integrated Circuit	U1		43.803003	1	11739202.588727
14S3520900	Integrated Circuit	U5		43.803003	1	11739202.588727
14S3528000	Integrated Circuit	U2		43.803003	1	11739202.588727
1652003101	Connection	CN1		16.184835	1	35685591.360212
1653002100	Connection	J1		16.184835	1	35685591.360212
1653007204	Connection	J2		16.184835	1	35685591.360212
1653300107	Connection	J2[13-14]		16.184835	1	35685591.360212
1655302020	Connection	CN4,CN6		16.184835	2	20390152.380746
1655304020	Connection	CN3		16.184835	1	35685591.360212
1655404120	Connection	CN5		16.184835	1	35685591.360212
1655905032	Connection	CN2		16.184835	1	35685591.360212
1752001900	Miscellaneous	F1,F2		2.400000	2	143944727.196625