

XTX-BSW

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 6921.478195 ppm MTBF: 144,478 Hours
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Issue date	QE Manager	Test Engineer
2016-06-22	KJ Wang	Louie Lee

Reliability Prediction (MTBF)

I . Model Name: XTX-BSW

II . Prediction Date: June. 22, 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:

XTX-BSW (M/B: 9697XBSW03-D):

- Failure Rate: 6921.478195 ppm
- MTBF: 144,478 Hours

**AAEON Reliability Prediction
Summary**

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

Failure Rate: 6921.478195
MTBF (hrs): 144,478
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
XTX-BSW	9697XBSW03-D		1	6921.478195	144,478

File Name: XTX-BSW.rfp
Assembly: 9697XBSW03-D
Ref Des:
Description:

Failure Rate: 6921.478195
MTBF (hrs): 144,478
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050500104	Resistor	R253		2.547039	1	282340674.079668
1050501004	Resistor	R129,R144,R148, R152,R271,R274		2.547039	6	56573956.677649
1050501234	Resistor	R174		2.547039	1	282340674.079668
1050502004	Resistor	R680,R681		2.547039	2	154078778.388085
1050502204	Resistor	R346,R355,R356, R359,R370,R384, R385,R388,R578, R584,R601,R602		2.547039	12	29507083.749401
1050502224	Resistor	R172,R175,R176, R177,R194,R206, R263,R419,R436, R676,R82,R83		2.547039	12	29507083.749401
1050502734	Resistor	R573		2.547039	1	282340674.079668
1050503324	Resistor	R699,R704		2.547039	2	154078778.388085
1050503934	Resistor	R312		2.547039	1	282340674.079668
1050504724	Resistor	R107,R149,R158, R161,R162,R166, R218,R223,R226, R257,R310,R316, R317,R327,R328, R357,R386,R405, R454,R481,R490, R494,R52,R614,R616		2.547039	25	14603612.751152
1050504734	Resistor	R691		2.547039	1	282340674.079668
1050505124	Resistor	R33,R650,R656		2.547039	3	107020754.986850
1050505633	Resistor	R308,R710		2.547039	2	154078778.388085
1050506234	Resistor	R246,R258		2.547039	2	154078778.388085
1050507530	Resistor	R281,R294		2.547039	2	154078778.388085

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1050510034	Resistor	R105,R109,R140,R16,R212,R217,R235,R28,R280,R282,R284,R350,R389,R398,R407,R411,R442,R453,R496,R498,R508,R581,R613,R617,R618,R621,R67,R679,R685,R686,R687,R713		2.547039	32	11502702.879433
1050518204	Resistor	R391,R392		2.547039	2	154078778.388085
1050520034	Resistor	R155,R413,R452,R81		2.547039	4	82309758.689546
1050525514	Resistor	R247,R343		2.547039	2	154078778.388085
1050525524	Resistor	R311		2.547039	1	282340674.079668
1050526124	Resistor	R307		2.547039	1	282340674.079668
1050527424	Resistor	R620		2.547039	1	282340674.079668
1050530124	Resistor	R367,R623		2.547039	2	154078778.388085
1050531624	Resistor	R266,R306		2.547039	2	154078778.388085
1050536514	Resistor	R230		2.547039	1	282340674.079668
1050540204	Resistor	R518,R534,R535,R536,R537		2.547039	5	67008142.102588
1050545314	Resistor	R249		2.547039	1	282340674.079668
1050545364	Resistor	R543		2.547039	1	282340674.079668
1050549964	Resistor	R399,R400,R401,R402,R469,R470,R530,R659,R662		2.547039	9	38754445.632391
1050701504	Resistor	R634,R642		2.547039	2	154078778.388085
1051500172	Resistor	R438		2.547039	1	282340674.079668
1052500171	Resistor	R404,R406,R412,R424,R475,R565,R566,R571		2.547039	8	43225424.698300
1059520001	Resistor	R334		2.547039	1	282340674.079668
1059710001	Resistor	R332		2.547039	1	282340674.079668

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105A500139	Resistor	R1,R124,R20 ,R261, R264,R268,R 313, R318,R32,R3 4,R342, R36,R371,R5 ,R580, R647,R660,R 661, R678,R688,R 689,R70, R700,R708,R 709,R85, R93,R95,R99		2.547039	29	12652760.276502
105A500173	Resistor	R457,R519,R 521, R522,R524,R 545, R563		2.547039	7	48991237.965885
105A501039	Resistor	R100,R106,R 111, R114,R116,R 120, R125,R130,R 132, R133,R138,R 146, R159,R17,R1 70,R181, R182,R187,R 197, R199,R2,R20 2,R203, R207,R210,R 22,R221, R222,R23,R2 31,R233, R239,R25,R2 52,R265, R269,R27,R2 75,R291, R293,R321,R 322, R323,R331,R 333, R336,R337,R 338, R339,R34		2.547039	97	3898359.926772
105A501539	Resistor	R585		2.547039	1	282340674.079668
105A501829	Resistor	R645,R648		2.547039	2	154078778.388085

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105A502039	Resistor	R277,R302,R325, R326,R451,R477, R516,R646,R711		2.547039	9	38754445.632391
105A502263	Resistor	R314,R315,R630, R640		2.547039	4	82309758.689546
105A503039	Resistor	R373		2.547039	1	282340674.079668
105A503309	Resistor	R128,R135,R136, R143,R192,R501,R89, R90,R91,R92		2.547039	10	35079934.879747
105A504703	Resistor	R682,R683		2.547039	2	154078778.388085
105A505109	Resistor	R448,R460,R472, R484,R497		2.547039	5	67008142.102588
105A506834	Resistor	R303		2.547039	1	282340674.079668
105A507509	Resistor	R236,R414,R420, R422,R423,R427, R428,R437,R445, R447,R458		2.547039	11	32049696.385471
105A510009	Resistor	R123,R456,R463, R487,R701,R702, R703,R705,R80,R96		2.547039	10	35079934.879747
105A510223	Resistor	R446		2.547039	1	282340674.079668
105A511303	Resistor	R193		2.547039	1	282340674.079668
105A513323	Resistor	R368		2.547039	1	282340674.079668
105A515009	Resistor	R504,R637,R638, R639		2.547039	4	82309758.689546
105A515034	Resistor	R288,R290		2.547039	2	154078778.388085
105A522003	Resistor	R76		2.547039	1	282340674.079668
105A524333	Resistor	R658		2.547039	1	282340674.079668
105A524919	Resistor	R3,R517		2.547039	2	154078778.388085
105A530109	Resistor	R289,R292		2.547039	2	154078778.388085
105A536529	Resistor	R267		2.547039	1	282340674.079668
105A540269	Resistor	R474,R486		2.547039	2	154078778.388085
105A544229	Resistor	R305		2.547039	1	282340674.079668
105A547003	Resistor	R344		2.547039	1	282340674.079668
105A547509	Resistor	R139		2.547039	1	282340674.079668
105A547523	Resistor	R122		2.547039	1	282340674.079668
105A548723	Resistor	R657,R84		2.547039	2	154078778.388085

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105A553629	Resistor	R296		2.547039	1	282340674.079668
105A700003	Resistor	R102,R142,R168, R243,R262,R276, R295,R320,R483, R506,R624,R663, R695,R86		2.547039	14	25477245.255648
105A700009	Resistor	R110,R112,R115, R117,R15,R180,R184, R189,R190,R191, R219,R237,R242, R245,R248,R254, R255,R256,R259, R260,R270,R279, R286,R298,R299, R300,R301,R35, R351,R363,R365,R38, R381,R40,R403,R410, R417,R421,R433,R435, R443,R476,R485, R491,R502,R529,R55, R550,R551,R		2.547039	75	5016500.228829
105A701059	Resistor	R441,R455,R693, R707		2.547039	4	82309758.689546
105A701069	Resistor	R173		2.547039	1	282340674.079668
105A701539	Resistor	R19		2.547039	1	282340674.079668
105A703363	Resistor	R635		2.547039	1	282340674.079668
105A703909	Resistor	R643,R649		2.547039	2	154078778.388085
105A705629	Resistor	R347,R366		2.547039	2	154078778.388085
105A706829	Resistor	R655,R672		2.547039	2	154078778.388085
105A708209	Resistor	R349,R353,R358, R369,R383,R387		2.547039	6	56573956.677649

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105A708229	Resistor	R330,R464,R465, R466,R467,R468, R482,R495,R503,R51, R511,R520,R528, R600,R603,R604, R605,R606,R607		2.547039	19	19019185.781770
105A720009	Resistor	R272,R278,R459, R461,R651,R653		2.547039	6	56573956.677649
105A733009	Resistor	R13,R18,R348		2.547039	3	107020754.986850
105A747009	Resistor	R101,R240,R324,R43, R552		2.547039	5	67008142.102588
105B700009	Resistor	R21,R250,R251,R26, R329,R335,R360, R390,R409,R415,R47, R609		2.547039	12	29507083.749401
105B701039	Resistor	R119,R211,R216, R361,R362,R378, R429,R430,R431, R432,R439,R46,R462, R591,R593,R610,R73, R97		2.547039	18	20032117.836120
106B510034	Resistor	RT1,RT2,RT3,RT4		7.724580	4	21923287.146155

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1121501691	Capacitor	C1,C103,C106,C107,C113,C117,C118,C12,C120,C121,C122,C123,C124,C125,C126,C127,C128,C13,C133,C135,C138,C139,C141,C143,C144,C148,C15,C150,C152,C153,C155,C156,C159,C160,C161,C162,C168,C17,C170,C177,C178,C179,C18,C180,C185,C2,C20,C219,C221,C223,C		1.128806	208	4186552.477530
1124410191	Capacitor	C192,C522,C523,C524,C525,C526		1.128806	6	133979725.056342
1124418090	Capacitor	C109,C115		1.128806	2	375289731.076049
1124420090	Capacitor	C539,C547		1.128806	2	375289731.076049
1124427091	Capacitor	C270,C3,C4		1.128806	3	257514172.353070
1124533191	Capacitor	C197,C211,C546		1.128806	3	257514172.353070
1129701791	Capacitor	C10,C131,C14,C16,C165,C169,C19,C298,C488,C553		1.128806	10	82101057.548118
1129710091	Capacitor	C100,C105,C147,C151		1.128806	4	196873384.410843
1129710391	Capacitor	C182,C184,C188,C209,C21,C218,C347,C374,C67		1.128806	9	90863428.080946
1129747090	Capacitor	C210,C215		1.128806	2	375289731.076049
1189610153	Capacitor	TC12		4.744484	1	159663026.715137

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1189615154	Capacitor	TC11		4.744484	1	159663026.715137
1189633151	Capacitor	TC1,TC2,TC5		4.744484	3	59399119.141203
118A6221B0	Capacitor	TC10,TC7,TC9		4.744484	3	59399119.141203
118C6331B0	Capacitor	TC6,TC8		4.744484	2	86049450.747498
11C2522480	Capacitor	C503,C508		1.128806	2	375289731.076049
11C4522190	Capacitor	C201		1.128806	1	704977644.692287
11C4522290	Capacitor	C407,C409		1.128806	2	375289731.076049
11C4533240	Capacitor	C213,C217		1.128806	2	375289731.076049
11C4547190	Capacitor	C208,C214,C272,C5, C6		1.128806	5	159367490.199266
11C9510050	Capacitor	C146,C195,C325, C326,C419,C420, C478,C490,C496, C504,C543,C544, C545		1.128806	13	63728475.410842
11E1522680	Capacitor	C235,C259,C528, C529		1.128806	4	196873384.410843
11E4433090	Capacitor	C296,C458,C480		1.128806	3	257514172.353070

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11E9501091	Capacitor	C102,C104,C11,C116,C134,C158,C183,C189,C194,C198,C202,C203,C22,C230,C231,C240,C241,C244,C246,C247,C273,C279,C329,C331,C332,C333,C334,C335,C336,C337,C340,C341,C343,C345,C346,C349,C350,C364,C369,C371,C372,C373,C376,C377,C378,C382,C383,C384,C3		1.128806	96	8998527.621104
11E9522790	Capacitor	C304		1.128806	1	704977644.692287
11E9547630	Capacitor	C232,C262,C352,C355,C367,C472,C473,C474,C514		1.128806	9	90863428.080946
11E9547790	Capacitor	C363		1.128806	1	704977644.692287

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11E9610080	Capacitor	C108,C110,C111, C112,C114,C129, C132,C154,C163, C164,C171,C172, C173,C196,C200, C204,C205,C220, C222,C224,C226, C228,C248,C25,C250, C252,C254,C257,C27, C274,C28,C280,C303, C32,C338,C339,C344, C353,C354,C36,C365, C368,C42,C43,C45, C47,C492,C493,C494, C501,		1.128806	56	15308283.020186
11E9622052	Capacitor	C142,C229,C278,C29, C295,C301,C393, C447,C448,C476, C510,C61,C70,C71, C77,C87,C89,C93,C95		1.128806	19	44097696.883526
11E9622080	Capacitor	C306,C309,C313, C314,C315,C317, C318,C323,C324, C327,C328,C342, C351,C366,C424, C475,C83,C86,C88		1.128806	19	44097696.883526
121110156U	Inductor	L3	25.5	7.721680	1	99094653.644167
121110226T	Inductor	L1		4.944252	1	154760964.143460

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121110226X	Inductor	L2		4.944252	1	154760964.143460
1211102272	Inductor	L5		4.944252	1	154760964.143460
1211102275	Inductor	L6	33.5	8.758012	1	87368817.031967
121110686A	Inductor	L8		4.944252	1	154760964.143460
1211133075	Inductor	L7		4.944252	1	154760964.143460
1212306030	Inductor	FB1,FB10,FB16,FB17,FB18,FB2,FB20,FB21,FB22,FB24,FB25,FB26,FB3,FB32,FB4,FB5,FB6,FB7,FB8,FB9		4.944252	20	9481517.998117
1212306035	Inductor	FB27,FB28,FB29,FB30,FB31		4.944252	5	35631881.582999
12123C0031	Inductor	FB11,FB12,FB13,FB14,FB15		4.944252	5	35631881.582999
12310025A3	Miscellaneous	Y1		19.200000	1	23844262.770939
12310192A0	Miscellaneous	Y2		19.200000	1	23844262.770939
1231327053	Miscellaneous	Y5		19.200000	1	23844262.770939
1231332726	Miscellaneous	Y3		19.200000	1	23844262.770939
12330024A1	Miscellaneous	Y4		19.200000	1	23844262.770939
1301005442	Semiconductor	D6		7.793411	1	92807310.010983
1301005444	Semiconductor	D15,D4,D5		7.793411	3	35106858.962001
1301400642	Semiconductor	D1		7.793411	1	92807310.010983
1301793040	Semiconductor	D2		7.793411	1	92807310.010983
1304000043	Optical Device	LED1		79.003355	1	6497172.749112
1304300140	Optical Device	LED2		79.003355	1	6497172.749112
1304500240	Optical Device	LED3		79.003355	1	6497172.749112
1310390413	Semiconductor	Q2		22.463360	1	31642600.748419
1311390612	Semiconductor	Q14,Q33		22.463360	2	17315095.066101
1315230511	Semiconductor	Q17,Q3,Q30,Q36		22.463360	4	9270607.712006
1315443512	Semiconductor	Q25,Q45,Q46		22.463360	3	12043329.789539
1315700216	Semiconductor	Q44		22.463360	1	31642600.748419
1315720010	Semiconductor	Q12,Q22,Q23,Q7		22.463360	4	9270607.712006
1315762010	Semiconductor	Q20		22.463360	1	31642600.748419
1315D4C500	Semiconductor	Q21	25.7	43.400111	1	16377818.256565

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1315EM6K10	Semiconductor	Q1,Q15,Q16, Q18,Q24, Q27,Q28,Q2 9,Q31, Q32,Q34,Q3 5,Q37,Q4, Q41,Q42,Q4 3,Q47, Q48,Q49,Q6, Q8,Q9		22.463360	23	1789160.944012
1420020430	Integrated Circuit	U29,U3		43.803003	2	6834791.244197
1430455200	Integrated Circuit	U10,U21,U27		43.803003	3	4923240.069161
1430812410	Integrated Circuit	U24	24.5	217.818052	1	2360742.486092
1430812410	Integrated Circuit	U25		43.803003	1	11739202.588727
143117ADJ0	Integrated Circuit	U8		43.803003	1	11739202.588727
1440003680	Integrated Circuit	U30,U33		43.803003	2	6834791.244197
14407517A0	Integrated Circuit	U54		43.803003	1	11739202.588727
14408892E0	Integrated Circuit	U39		43.803003	1	11739202.588727
1440N30600	Integrated Circuit	U11	7.7	30.256862	1	16994899.589817
1462XBSWA0	Integrated Circuit	U14		11.063278	1	58231413.220643
149TB01040	Integrated Circuit	U12,U18,U48		43.803003	3	4923240.069161
149TS01040	Integrated Circuit	U62,U63		43.803003	2	6834791.244197
14S1035803	Integrated Circuit	U50		43.803003	1	11739202.588727
14S3010700	Integrated Circuit	U55		43.803003	1	11739202.588727
14S3088600	Integrated Circuit	U22	26	238.436011	1	2156605.147419
14S3112400	Integrated Circuit	U23		43.803003	1	11739202.588727
14S3121600	Integrated Circuit	U35		43.803003	1	11739202.588727
14S3121800	Integrated Circuit	U38		43.803003	1	11739202.588727
14S3902500	Integrated Circuit	U19	23.7	207.490461	1	2478245.630277
14S3902500	Integrated Circuit	U32,U41		43.803003	2	6834791.244197
14S3973100	Integrated Circuit	U31		43.803003	1	11739202.588727
14S4186600	Integrated Circuit	U13		43.803003	1	11739202.588727
14S4519500	Integrated Circuit	U4		43.803003	1	11739202.588727
14S4810500	Integrated Circuit	U2		43.803003	1	11739202.588727
14S4910400	Integrated Circuit	U9	28.1	270.248399	1	1902739.597571
14S5904501	Integrated Circuit	U40		26.018600	1	25551442.237972
14S5A00704	Integrated Circuit	U56		26.018600	1	25551442.237972
14S5A00802	Integrated Circuit	U26,U6		26.018600	2	14194252.866846
14S5A00821	Integrated Circuit	U15,U17,U36		26.018600	3	9949526.289768
14S5A12506	Integrated Circuit	U53		26.018600	1	25551442.237972
14S5A30601	Integrated Circuit	U37,U7		26.018600	2	14194252.866846
14S5A73200	Integrated Circuit	U20		26.018600	1	25551442.237972
14S6206403	Integrated Circuit			11.063278	1	58231413.220643
14S6334610	Integrated Circuit	U28		11.063278	1	58231413.220643
14S9108500	Integrated Circuit	U61		43.803003	1	11739202.588727
14S9346000	Integrated Circuit	U16		43.803003	1	11739202.588727
14S9894400	Integrated Circuit	U34		43.803003	1	11739202.588727

File Name: XTX-BSW.rfp
Assembly: 9697XBSW03-D
Ref Des:
Description:

Failure Rate: 6921.478195
MTBF (hrs): 144,478
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1540722085	Resistor	RP1,RP10,RP2,RP3,RP4,RP5,RP6,RP7,RP8,RP9		9.971436	10	7746494.690806
1540722281	Resistor	RP11		9.971436	1	51606907.671214
1600000403	Connection	SW1(1,2OFF)		16.184835	1	35685591.360212
1651520400	Connection	CN2		16.184835	1	35685591.360212
1653150221	Connection	X1A,X1B,X1C,X1D		16.184835	4	11344857.509064
1654903030	Connection	CN12		16.184835	1	35685591.360212
1654907101	Connection	CN3		16.184835	1	35685591.360212
1655812130	Connection	CN4		16.184835	1	35685591.360212
1655902122	Connection	CN1		16.184835	1	35685591.360212
1655903122	Connection	CN11		16.184835	1	35685591.360212
1655907131	Connection	CN9		16.184835	1	35685591.360212
1752002500	Miscellaneous	FS2		2.400000	1	254626042.602335