

PICO-BT01-A11

Reliability Prediction Report

(MTBF)

Summary	Failure Rate: 5852.440706 MTBF: 170,869 Hours
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Issue date

QE Manager

Test Engineer

2017-12-27

KJ Wang

Danny Chen

Reliability Prediction (MTBF)

I . Model Name: PICO-BT01-A11

II . Prediction Date: December. 27th, 2017

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

IV . Predicted by: Danny Chen

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:

PICO-BT01-A11 (M/B: 9697BT010X-D):

- Failure Rate: 5852.440706

- MTBF: 170,869 Hours

**AAEON Reliability Prediction
Summary**

File Name: PICO-BT01 A11.rfp
Duty Cycle: 100
Calculation Model: Telcordia Issue 2
Method: Method I Case 3

Failure Rate: 5852.440706
MTBF (hrs): 170,869
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
PICO-BT01 A11	9697BT010X-D		1	5852.440706	170,869

File Name: PICO-BT01 A11.rfp
Assembly: 9697BT010X-D
Ref Des:
Description:

Failure Rate: 5852.440706
MTBF (hrs): 170,869
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050501224	Resistor	R110		2.547039	1	282340674.079668
1050501234	Resistor	R356		2.547039	1	282340674.079668
1050501514	Resistor	R14,R15,R16 ,R204, R205,R206		2.547039	6	56573956.677649
1050501634	Resistor	R495		2.547039	1	282340674.079668
1050502004	Resistor	R493,R83		2.547039	2	154078778.388085
1050502724	Resistor	R557		2.547039	1	282340674.079668
1050504724	Resistor	R1,R198,R2, R200, R201,R203		2.547039	6	56573956.677649
1050504764	Resistor	R851		2.547039	1	282340674.079668
1050505124	Resistor	R324,R388		2.547039	2	154078778.388085
1050508224	Resistor	R555,R556		2.547039	2	154078778.388085
1050510004	Resistor	R415,R465,R 467, R476,R481,R 539, R853		2.547039	7	48991237.965885
1050510024	Resistor	R376,R386		2.547039	2	154078778.388085
1050510034	Resistor	R326,R421,R 6,R8, R846,R850		2.547039	6	56573956.677649
1050513034	Resistor	R857		2.547039	1	282340674.079668
1050516204	Resistor	R5		2.547039	1	282340674.079668
1050516964	Resistor	R491,R84		2.547039	2	154078778.388085
1050520034	Resistor	R116,R120,R 880		2.547039	3	107020754.986850
1050523264	Resistor	R3		2.547039	1	282340674.079668
1050527424	Resistor	R499,R500		2.547039	2	154078778.388085
1050528734	Resistor	R852		2.547039	1	282340674.079668
1050529464	Resistor	R4		2.547039	1	282340674.079668
1050530124	Resistor	R501		2.547039	1	282340674.079668
1050533004	Resistor	R479		2.547039	1	282340674.079668
1050533064	Resistor	R423		2.547039	1	282340674.079668
1050535704	Resistor	R22		2.547039	1	282340674.079668
1050540204	Resistor	R18,R32,R34		2.547039	3	107020754.986850
1050540214	Resistor	R60		2.547039	1	282340674.079668
1050545364	Resistor	R107,R97		2.547039	2	154078778.388085
1050547564	Resistor	R61		2.547039	1	282340674.079668
1050549964	Resistor	R114,R47,R4 8,R49, R50,R86		2.547039	6	56573956.677649
1050561934	Resistor	R510		2.547039	1	282340674.079668
1050573264	Resistor	R488,R489,R 490		2.547039	3	107020754.986850
1050591034	Resistor	R849		2.547039	1	282340674.079668
1050700002	Resistor	R872		2.547039	1	282340674.079668

**Reliability Prediction
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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050700004	Resistor	R113,R125,R136, R137,R138,R139, R167,R211,R276, R295,R303,R327, R368,R374,R377, R381,R398,R399, R412,R414,R426, R480,R482,R494, R503,R514,R750, R842,R85,R876,R877, R885,R888,R890, R892,R894,R897, R900,R92,R96		2.547039	40	9263254.152485

**Reliability Prediction
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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050701034	Resistor	R130,R131,R132, R133,R134,R187, R188,R189,R190, R192,R193,R194, R195,R196,R197, R214,R215,R227, R236,R239,R242, R249,R262,R264, R265,R270,R271, R272,R273,R274, R275,R277,R278, R279,R280,R281, R282,R283,R297, R298,R299,R301, R302,R310,R325, R328,R329,R33,R		2.547039	108	3508066.726535
1050701044	Resistor	R229,R231,R232, R243,R251,R342, R351,R353,R354, R355,R361,R364, R461,R463,R498, R502,R504,R513, R531,R532,R533, R535,R536,R537, R538,R91		2.547039	26	14061076.827148

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050710014	Resistor	R396,R397,R400, R420,R422,R427, R506,R87		2.547039	8	43225424.698300
1050747014	Resistor	R267,R312,R319, R321,R322,R408, R409,R418,R450, R485,R487,R56		2.547039	12	29507083.749401
1050756004	Resistor	R311,R313,R315, R317,R318,R320, R464,R466		2.547039	8	43225424.698300
1059700001	Resistor	R253		2.547039	1	282340674.079668
1059701061	Resistor	R452		2.547039	1	282340674.079668
105A500103	Resistor	R507		2.547039	1	282340674.079668
105A500139	Resistor	R100,R459,R475, R477,R497,R99		2.547039	6	56573956.677649
105A500173	Resistor	R173		2.547039	1	282340674.079668
105A501003	Resistor	R235		2.547039	1	282340674.079668
105A501139	Resistor	R492		2.547039	1	282340674.079668
105A502039	Resistor	R385,R387,R508, R56		2.547039	4	82309758.689546
105A505109	Resistor	R75,R76,R77, ,R78, R79		2.547039	5	67008142.102588
105A506834	Resistor	R505		2.547039	1	282340674.079668
105A507509	Resistor	R207,R208,R209		2.547039	3	107020754.986850
105A507533	Resistor	R509		2.547039	1	282340674.079668
105A510003	Resistor	R741,R742,R743, R744		2.547039	4	82309758.689546
105A510223	Resistor	R511		2.547039	1	282340674.079668
105A533269	Resistor	R62		2.547039	1	282340674.079668
105A549919	Resistor	R284		2.547039	1	282340674.079668
105A561909	Resistor	R462,R474		2.547039	2	154078778.388085
105A700003	Resistor	R460,R468,R469, R483,R496,R516, R524,R848		2.547039	8	43225424.698300
105A701059	Resistor	R230,R314,R358,R57		2.547039	4	82309758.689546
105A701069	Resistor	R82		2.547039	1	282340674.079668

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Description:

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105A702039	Resistor	R66,R88,R89		2.547039	3	107020754.986850
105A702229	Resistor	R104,R105,R106, R117,R119,R12,R121, R122,R13,R17,R19, R20,R21,R212,R213, R237,R238,R64,R874, R875,R881,R882		2.547039	22	16518584.576317
105A703309	Resistor	R111,R112,R300, R389,R390,R391, R392,R395,R411, R413		2.547039	10	35079934.879747
105A703329	Resistor	R285,R286,R287		2.547039	3	107020754.986850
105A705139	Resistor	R366,R367		2.547039	2	154078778.388085
105A708229	Resistor	R94,R98		2.547039	2	154078778.388085
105A720009	Resistor	R80		2.547039	1	282340674.079668
105A733009	Resistor	R292,R294,R375, R416,R417,R424, R425,R544		2.547039	8	43225424.698300
105A747039	Resistor	R419		2.547039	1	282340674.079668
105B500009	Resistor	R863		2.547039	1	282340674.079668
105B700009	Resistor	R902,R907		2.547039	2	154078778.388085
105B700139	Resistor	R858,R859		2.547039	2	154078778.388085
105B701039	Resistor	R898,R905		2.547039	2	154078778.388085
106B500144	Resistor	RT1		2.547039	1	282340674.079668

File Name: PICO-BT01 A11.rfp
Assembly: 9697BT010X-D
Ref Des:
Description:

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MTBF (hrs): 170,869
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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1121501690	Capacitor	C1,C101,C109,C110,C113,C114,C115,C116,C118,C119,C128,C129,C130,C131,C132,C133,C134,C135,C137,C138,C14,C145,C146,C147,C148,C149,C150,C151,C152,C155,C167,C168,C169,C17,C172,C173,C174,C175,C176,C177,C178,C182,C183,C188,C190,C192,C193,C194,C195		1.128806	164	5298386.342466
1124418090	Capacitor	C12,C13,C263,C264		1.128806	4	196873384.410843
1124427090	Capacitor	C10,C11,C157,C159,C161,C221,C222		1.128806	7	115633865.771428
1124433090	Capacitor	C162,C163,C164,C165,C421		1.128806	5	159367490.199266
1124522290	Capacitor	C435,C620		1.128806	2	375289731.076049
1124547190	Capacitor	C223,C224,C225		1.128806	3	257514172.353070
1129522790	Capacitor	C166		1.128806	1	704977644.692287
1129610051	Capacitor	C153,C170,C273,C278,C432		1.128806	5	159367490.199266
1129622690	Capacitor	C117,C136,C24,C25,C26,C27,C35,C36		1.128806	8	101746760.035398

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Description:

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1129701790	Capacitor	C191,C233,C251,C252,C253,C254,C291,C292,C293,C294,C336,C458,C463,C67,C95		1.128806	15	55479656.844874
1129710090	Capacitor	C156,C158,C160,C318,C342		1.128806	5	159367490.199266
1129710390	Capacitor	C186,C433		1.128806	2	375289731.076049
1129747090	Capacitor	C600		1.128806	1	704977644.692287
1189615154	Capacitor	TC2,TC3,TC4,TC5		1.128806	4	196873384.410843
1189622154	Capacitor	TC6,TC7,TC8,TC9		1.128806	4	196873384.410843
1189633151	Capacitor	TC1		1.128806	1	704977644.692287
1189922181	Capacitor	TC11		1.128806	1	704977644.692287
118A6101A0	Capacitor	TC10		1.128806	1	704977644.692287
11A4410194	Capacitor	C179,C322,C323		1.128806	3	257514172.353070
11A4422190	Capacitor	C608		1.128806	1	704977644.692287
11A4433180	Capacitor	C329,C331		1.128806	2	375289731.076049
11C1501030	Capacitor	C105,C80,C91		1.128806	3	257514172.353070
11C1533890	Capacitor	C601		1.128806	1	704977644.692287
11C1539841	Capacitor	C220		1.128806	1	704977644.692287
11E1501040	Capacitor	C434		1.128806	1	704977644.692287
11E1547650	Capacitor	C436		1.128806	1	704977644.692287
11E2501690	Capacitor	C199,C337,C426,C430,C454,C460		1.128806	6	133979725.056342
11E2510010	Capacitor	C198,C335,C338,C427,C428,C429,C461		1.128806	7	115633865.771428
11E2610032	Capacitor	C606,C610		1.128806	2	375289731.076049
11E9547680	Capacitor	C286,C287		1.128806	2	375289731.076049
11E9622050	Capacitor	C446,C447,C448,C450		1.128806	4	196873384.410843
11E9622052	Capacitor	C187,C368,C399,C405		1.128806	4	196873384.410843

File Name: PICO-BT01 A11.rfp
Assembly: 9697BT010X-D
Ref Des:
Description:

Failure Rate: 5852.440706
MTBF (hrs): 170,869
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11E9622080	Capacitor	C45,C453,C46,C47,C64,C65,C66,C97		1.128806	8	101746760.035398
11E9647690	Capacitor	C40,C41		1.128806	2	375289731.076049
11EA610030	Capacitor	C189,C200,C204,C258,C262,C424		1.128806	6	133979725.056342
11EA610040	Capacitor	C120,C121,C122,C123,C139,C140,C211,C217,C219,C246,C315,C34,C398,C400,C401,C404,C406,C407,C408,C413,C415,C417,C418,C42,C43,C44,C464,C96		1.128806	28	30212160.975569
11EA647010	Capacitor	C353,C355,C359,C360,C364,C377,C379,C386,C388,C390,C391,C396,C397		1.128806	13	63728475.410842

File Name: PICO-BT01 A11.rfp
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Description:

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11EB501040	Capacitor	C100,C102,C104, C106,C107,C108, C141,C142,C143, C144,C15,C154,C16, C171,C18,C210,C228, C230,C231,C245, C266,C272,C275, C280,C289,C300, C308,C309,C310,C32, C343,C362,C37,C38, C39,C425,C55,C56, C57,C58,C59,C60, C602,C61,C62,C63, C68,C69,C70,C71, C72,C75,C76		1.128806	69	12464035.316736
11EB522640	Capacitor	C341		1.128806	1	704977644.692287
11EB547740	Capacitor	C205,C74		1.128806	2	375289731.076049
11EB610050	Capacitor	C299,C302,C303, C306,C307,C347, C348,C349,C351, C352,C354,C356, C370,C374,C376, C378,C382,C389, C412,C414,C612		1.128806	21	40003791.624280
11EB622030	Capacitor	C457		1.128806	1	704977644.692287
121110106Z	Inductor	L8		4.944252	1	154760964.143460
121110226X	Inductor	L10		4.944252	1	154760964.143460
1211103373	Inductor	L2,L5		4.944252	2	83201062.149749
121110686A	Inductor	L3		4.944252	1	154760964.143460
1211110078	Inductor	L4,L7		4.944252	2	83201062.149749
121113307K	Inductor	L1,L6		4.944252	2	83201062.149749

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1212308054	Inductor	FB13,FB14		4.944252	2	83201062.149749
1212312063	Inductor	FB24,FB25		4.944252	2	83201062.149749
12123C000E	Inductor	FB1,FB10,FB11,FB12,FB15,FB17,FB19		4.944252	7	25970990.056682
12123D0009	Inductor	FB2,FB21,FB23,FB3,FB4,FB5,FB6,FB7,FB8		4.944252	9	20443842.451049
1214109004	Inductor	CH12,CH14,CH6		4.944252	3	57363284.375370
1214309009	Inductor	CH8,CH9		4.944252	2	83201062.149749
12310024A4	Miscellaneous	Y5		19.200000	1	23844262.770939
12310025A2	Miscellaneous	Y1,Y3		19.200000	2	8854051.752197
1231332726	Miscellaneous	Y2		19.200000	1	23844262.770939
12330024A1	Miscellaneous	Y4		19.200000	1	23844262.770939
1301005440	Semiconductor	D17		7.793411	1	92807310.010983
1301005444	Semiconductor	D1,D10,D2,D23		7.793411	4	26989084.126235
1301010400	Semiconductor	D4		7.793411	1	92807310.010983
1301400541	Semiconductor	D8		7.793411	1	92807310.010983
1301400642	Semiconductor	D20		7.793411	1	92807310.010983
1304001340	Optical Device	D19		79.003355	1	6497172.749112
1304101340	Optical Device	D18,D22		79.003355	2	3783722.582110
1304300140	Optical Device	D9		79.003355	1	6497172.749112
1305080040	Semiconductor	D15,D16,D5,U72,U73		7.793411	5	21965031.404253
13100EMX10	Semiconductor	Q69		22.463360	1	31642600.748419
1310390413	Semiconductor	Q15,Q23,Q24		22.463360	3	12043329.789539
1311390610	Semiconductor	Q21,Q22		22.463360	2	17315095.066101
1315013810	Semiconductor	Q20		22.463360	1	31642600.748419
1315036640	Semiconductor	Q25,Q27		22.463360	2	17315095.066101
1315200312	Semiconductor	Q30		22.463360	1	31642600.748419
1315230111	Semiconductor	Q11		22.463360	1	31642600.748419
1315443512	Semiconductor	Q31,Q34,Q40		22.463360	3	12043329.789539
1315700216	Semiconductor	Q14,Q19,Q32,Q33,Q6,Q7,Q8		22.463360	7	5525968.936223
1315720010	Semiconductor	Q26,Q28		22.463360	2	17315095.066101

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1315EM6K10	Semiconductor	Q1,Q10,Q12, Q13,Q18, Q2,Q3,Q36,Q 37,Q38, Q39,Q4,Q41, Q42,Q43, Q5,Q64,Q66, Q67,Q70, Q71,Q72		22.463360	22	1867312.998876
1315EMB090	Semiconductor	Q29		22.463360	1	31642600.748419
1430087620	Integrated Circuit	U41		43.803003	1	11739202.588727
1430097420	Integrated Circuit	U24,U27		43.803003	2	6834791.244197
1430532190	Integrated Circuit	U40		43.803003	1	11739202.588727
1430959602	Integrated Circuit	U38		43.803003	1	11739202.588727
143ALC8920	Integrated Circuit	U43		43.803003	1	11739202.588727
1440002130	Integrated Circuit	U29		43.803003	1	11739202.588727
1440211AT0	Integrated Circuit	U17		43.803003	1	11739202.588727
1440J19000	Integrated Circuit	U1		21.706765	1	23689035.791249
14412F5080	Integrated Circuit			26.018600	1	25551442.237972
1462ZBT1A2	Integrated Circuit	U34		11.063278	1	58231413.220643
1489GBT051	Integrated Circuit	U71		26.018600	1	25551442.237972
149F759140	Integrated Circuit	U76,U77		43.803003	2	6834791.244197
149TB01040	Integrated Circuit	U33		43.803003	1	11739202.588727
149TS01040	Integrated Circuit	U5,U7		43.803003	2	6834791.244197
14S2200900	Integrated Circuit	U8		43.803003	1	11739202.588727
14S3104500	Integrated Circuit	U11,U12,U13 ,U25, U26		43.803003	5	3214211.402100
14S3524700	Integrated Circuit	U15		43.803003	1	11739202.588727
14S3902500	Integrated Circuit	U39		43.803003	1	11739202.588727
14S3E00100	Integrated Circuit	U19		43.803003	1	11739202.588727
14S4180100	Integrated Circuit	U20		43.803003	1	11739202.588727
14S4251402	Integrated Circuit	U23		43.803003	1	11739202.588727
14S4631500	Integrated Circuit	U35		43.803003	1	11739202.588727
14S4751100	Integrated Circuit	U37		43.803003	1	11739202.588727
14S4814380	Integrated Circuit	U30		43.803003	1	11739202.588727
14S5912300	Integrated Circuit	U36		26.018600	1	25551442.237972
14S5A00821	Integrated Circuit	U2,U42,U75		26.018600	3	9949526.289768
14S5A30601	Integrated Circuit	U3,U4,U74		26.018600	3	9949526.289768
14S6206403	Integrated Circuit			11.063278	1	58231413.220643
14S9346001	Integrated Circuit	U14		43.803003	1	11739202.588727
1540710280	Resistor	RP1		9.971436	1	51606907.671214
16515A2991	Connection	CN2		16.184835	1	35685591.360212
1652602105	Connection	CN20		16.184835	1	35685591.360212
1652814205	Connection	CN7		16.184835	1	35685591.360212
165300310G	Connection	JP3		16.184835	1	35685591.360212
1653003202	Connection	CN8,JP1,JP4		16.184835	3	14515880.849373
1653005209	Connection	CN19		16.184835	1	35685591.360212

File Name: PICO-BT01 A11.rfp
Assembly: 9697BT010X-D
Ref Des:
Description:

Failure Rate: 5852.440706
MTBF (hrs): 170,869
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1653300107	Connection	JP3(2-3),JP4(3-5)		16.184835	2	20390152.380746
165330010E	Connection	JP1(2-4),JP4(2-4)		16.184835	2	20390152.380746
165330010G	Connection	JP1(1-3)		16.184835	1	35685591.360212
1654226303	Connection	CN24,CN9		16.184835	2	20390152.380746
1654401532	Connection	CN3		16.184835	1	35685591.360212
1654801330	Connection	CN10		16.184835	1	35685591.360212
1654907009	Connection	CN15		16.184835	1	35685591.360212
1655302025	Connection	CN14		16.184835	1	35685591.360212
1655305130	Connection	CN5		16.184835	1	35685591.360212
1655802020	Connection	CN1,CN21		16.184835	2	20390152.380746
1655805121	Connection	CN11		16.184835	1	35685591.360212
1655820100	Connection	CN23,CN25		16.184835	2	20390152.380746
1655912032	Connection	CN18		16.184835	1	35685591.360212
175011301B	Miscellaneous	M1		306.000000	1	1681683.006787
1752000501	Miscellaneous	FS3		2.400000	1	254626042.602335
1752011002	Miscellaneous	FS1		2.400000	1	254626042.602335