

RTC-700B

Reliability Prediction Report

(MTBF)

Summary	Failure Rate: 7270.419068 ppm MTBF: 137,544 Hours
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Issue date	QE Manager	Test Engineer
2016/10/19	KJ Wang	Anderson Lin

Reliability Prediction (MTBF)

I . Model Name: RTC-700B

II . Prediction Date: Oct. 19, 2016

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

IV . Predicted by: Anderson Lin

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 in 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 in specify that the failure rate is to be calculated based the selected Calculation models. The multiplier is 1,000,000,000.
- MTBF : MTBF is always specified in hours.

VIII. Prediction Result:

RTC-700B (9697700B04-D):

(not including Battery, LCD, Touch screen, Adapter.)

- Failure Rate: 7270.419068 ppm

- MTBF: 137,544 Hours

**Reliability Prediction
Summary**

File Name: RTC-700B.rfp
System: System
Ref Des:
Description:

Failure Rate: 7270.419068
MTBF (hrs): 137,544
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
RTC-700B	System		1	7270.419068	137,544

File Name: RTC-700B.rfp
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Description:

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MTBF (hrs): 137,544
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
14408566.000000000 000000	Integrated Circuit	U33	43.803003	1	85.184662
1050500334.0000000 00000000	Resistor	R668,R67 6	2.547039	2	6.490186
1050501004.0000000 00000000	Resistor	R228,R22 9,R544, R796,R80 5	2.547039	5	14.923560
1050501054.0000000 00000000	Resistor	R284,R30 0,R379, R395,R44 7,R673, R674,R68 0,R856	2.547039	9	25.803491
1050501234.0000000 00000000	Resistor	R234,R37 8,R394, R755	2.547039	4	12.149228
1050504724.0000000 00000000	Resistor	R141,R14 6,R150, R155,R27 0,R271, R399,R40 0,R402, R403,R40 4,R405, R765,R76 6,R829, R830,R83 3,R834, R839,R84 0,R847, R848,R84 9	2.547039	23	63.186117
1050504734.0000000 00000000	Resistor	R644,R67 5,R741	2.547039	3	9.343982
1050511034.0000000 00000000	Resistor	R669,R67 2	2.547039	2	6.490186
1050511304.0000000 00000000	Resistor	R12	2.547039	1	3.541821
1050515434.0000000 00000000	Resistor	R721,R72 7	2.547039	2	6.490186
1050516034.0000000 00000000	Resistor	R643	2.547039	1	3.541821
1050518204.0000000 00000000	Resistor	R1	2.547039	1	3.541821
1050520034.0000000 00000000	Resistor	R106,R44, R767	2.547039	3	9.343982
1050524004.0000000 00000000	Resistor	R136,R13 7,R138, R139	2.547039	4	12.149228

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1050524924.0000000 00000000	Resistor	R694,R69 6	2.547039	2	6.490186
1050540204.0000000 00000000	Resistor	R11,R6,R7 ,R8	2.547039	4	12.149228
1050545364.0000000 00000000	Resistor	R13	2.547039	1	3.541821
1050549934.0000000 00000000	Resistor	R725	2.547039	1	3.541821
1050549964.0000000 00000000	Resistor	R18	2.547039	1	3.541821
1050563420.0000000 00000000	Resistor	R654,R67 7,R678	2.547039	3	9.343982
1050580664.0000000 00000000	Resistor	R10	2.547039	1	3.541821
1050582034.0000000 00000000	Resistor	R719	2.547039	1	3.541821
1050701504.0000000 00000000	Resistor	R413,R77 6	2.547039	2	6.490186
1050702704.0000000 00000000	Resistor	R541,R54 2	2.547039	2	6.490186
1059700001.0000000 00000000	Resistor	R423,R42 4	2.547039	2	6.490186

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1121501691.0000000 00000000	Capacitor	C100,C10 7,C112, C113,C11 4,C115, C116,C11 7,C127, C129,C13 5,C137, C138,C13 9,C140, C141,C14 2,C147, C150,C15 2,C153, C156,C15 8,C161, C185,C2,C 222,C223, C224,C22 6,C227, C228,C22 9,C230, C232,C23 6,C239, C252,C26 3,C264, C265,C26 6,C267, C268,C26 9,C270, C271,C27 2,C2	1.128806	136	156.807332
1124368690.0000000 00000000	Capacitor	C82,C83	1.128806	2	2.664608
1124410191.0000000 00000000	Capacitor	C122,C13 0,C238, C897	1.128806	4	5.079407
1124427091.0000000 00000000	Capacitor	C327,C32 8,C43,C44	1.128806	4	5.079407
1124533191.0000000 00000000	Capacitor	C175,C17 7,C178, C181	1.128806	4	5.079407
1129701791.0000000 00000000	Capacitor	C145,C26 2,C415, C426,C42 7,C428, C431,C43 2,C845	1.128806	9	11.005528
1129710091.0000000 00000000	Capacitor	C233,C23 4,C323, C343,C34 4	1.128806	5	6.274805

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1129710391.0000000 00000000	Capacitor	C484	1.128806	1	1.418485
1189610192.0000000 00000000	Capacitor	C295,C30 1,C396, C887	1.128806	4	5.079407
1211100119.0000000 00000000	Inductor	L1	4.944252	1	6.461578
1211104776.0000000 00000000	Inductor	L7,L8	4.944252	2	12.019077
1211104781.0000000 00000000	Inductor	L3	4.944252	1	6.461578
1211110061.0000000 00000000	Inductor	L5	4.944252	1	6.461578
1211110078.0000000 00000000	Inductor	L6	4.944252	1	6.461578
1211122079.0000000 00000000	Inductor	L13,L14	4.944252	2	12.019077
1214109000.0000000 00000000	Inductor	CH1,CH10 ,CH11,CH 12, CH14,CH1 5,CH16, CH17,CH1 8,CH2,CH 3, CH8,CH9	4.944252	13	69.582906
1214109004.0000000 00000000	Inductor	CH4,CH5, CH6,CH7	4.944252	4	22.772366
1231332726.0000000 00000000	Miscellaneous	Y2,Y6	19.200000	2	112.942642
1231337460.0000000 00000000	Miscellaneous	Y7	19.200000	1	41.938810
1301013040.0000000 00000000	Semiconductor	D4	7.793411	1	10.775013
1301793040.0000000 00000000	Semiconductor	D1,D2,D2 0,D21,D2 3, D24,D25, D26,D37, D38,D39, D40,D41, D42,D5,D 6,D7	7.793411	17	144.357557
1305040241.0000000 00000000	Semiconductor	D11	7.793411	1	10.775013

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1305050040.0000000 00000000	Semiconductor	D12,D13, D15,D27, D28,D29, D3,D30,D 31, D32,D33, D34,D35, D9	7.793411	14	119.879214
1305401200.0000000 00000000	Semiconductor	D14,D16, D17,D18, D19	7.793411	5	45.526910
1315000210.0000000 00000000	Semiconductor	Q38,Q51, Q59,Q8	22.463360	4	107.867794
1315033510.0000000 00000000	Semiconductor	Q14,Q15, Q3,Q37,Q 57	22.463360	5	132.418067
1315200312.0000000 00000000	Semiconductor	Q47,Q48	22.463360	2	57.753076
1315443512.0000000 00000000	Semiconductor	Q12,Q44, Q45	22.463360	3	83.033515
1430015380.0000000 00000000	Integrated Circuit	U68	43.803003	1	85.184662
1430035210.0000000 00000000	Integrated Circuit	U18,U34, U50,U53, U60,U75	43.803003	6	363.508251
1430053250.0000000 00000000	Integrated Circuit	U77	43.803003	1	85.184662
1430090590.0000000 00000000	Integrated Circuit	U76	43.803003	1	85.184662
1430455200.0000000 00000000	Integrated Circuit	U74	43.803003	1	85.184662
1430512001.0000000 00000000	Integrated Circuit	U70	43.803003	1	85.184662
1430621300.0000000 00000000	Integrated Circuit	U71,U72	43.803003	2	146.310248
1430686100.0000000 00000000	Integrated Circuit	U46,U61	43.803003	2	146.310248
1430686102.0000000 00000000	Integrated Circuit	U44	43.803003	1	85.184662
1440056420.0000000 00000000	Integrated Circuit	U79	43.803003	1	85.184662
1440659820.0000000 00000000	Integrated Circuit	U36	43.803003	1	85.184662
1462025640.0000000 00000000	Integrated Circuit	U14	43.803003	1	85.184662
1469000007.0000000 00000000	Integrated Circuit	U37	43.803003	1	85.184662
1490046041.0000000 00000000	Integrated Circuit	U15	43.803003	1	85.184662

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1540100040.0000000 00000000	Resistor	RN24,RN3 2,RN7,RN 8	9.971436	4	58.653237
1651508010.0000000 00000000	Connection	CN22	16.184835	1	28.022514
1652503108.0000000 00000000	Connection	CN30	16.184835	1	28.022514
1652505211.0000000 00000000	Connection	CN15	16.184835	1	28.022514
1652908900.0000000 00000000	Connection	CN33	16.184835	1	28.022514
1654226304.0000000 00000000	Connection	CN21,CN2 4	16.184835	2	49.043282
1654800935.0000000 00000000	Connection	CN19	16.184835	1	28.022514
1654802430.0000000 00000000	Connection	CN18	16.184835	1	28.022514
1654805302.0000000 00000000	Connection	CN20	16.184835	1	28.022514
1654900834.0000000 00000000	Connection	CN11,CN1 7,CN28, CN36,CN7	16.184835	5	107.028052
1654900835.0000000 00000000	Connection	CN4	16.184835	1	28.022514
1654901240.0000000 00000000	Connection	CN27	16.184835	1	28.022514
1654902433.0000000 00000000	Connection	CN29	16.184835	1	28.022514
1654904032.0000000 00000000	Connection	CN3	16.184835	1	28.022514
1654910201.0000000 00000000	Connection	CN25	16.184835	1	28.022514
1654930200.0000000 00000000	Connection	CN23,CN3 4	16.184835	2	49.043282
1654939300.0000000 00000000	Connection	CN5	16.184835	1	28.022514
1655802131.0000000 00000000	Connection	CN1	16.184835	1	28.022514
1655810131.0000000 00000000	Connection	CN16	16.184835	1	28.022514
1655902121.0000000 00000000	Connection	CN13	16.184835	1	28.022514
1655905126.0000000 00000000	Connection	CN8,CN9	16.184835	2	49.043282
1655908123.0000000 00000000	Connection	CN31,CN3 2	16.184835	2	49.043282
1756900005.0000000 00000000	Integrated Circuit	U21,U22, U23	43.803003	3	203.118269

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	Resistor	R648,R655	2.547039	2	6.490186
	Resistor	R650,R651,R714,R715	2.547039	4	12.149228
	Resistor	R426,R838	2.547039	2	6.490186
	Resistor	R17,R20,R21,R22,R333,R751,R808	2.547039	7	20.411813
	Resistor	R123,R125,R127,R130,R131,R253,R254,R255,R256,R257,R258	2.547039	11	31.201544
	Resistor	R745	2.547039	1	3.541821
	Resistor	R163,R164,R165,R166,R174,R175,R176,R177,R178,R183,R184,R185,R186,R187,R188,R189,R190,R191,R192,R193,R194,R195,R196,R197,R24,R534,R652,R653,R9	2.547039	29	79.034138
	Resistor	R4,R5	2.547039	2	6.490186
	Resistor	R657	2.547039	1	3.541821
	Resistor	R19	2.547039	1	3.541821
	Resistor	R304	2.547039	1	3.541821
	Resistor	R198	2.547039	1	3.541821
	Resistor	R743,R747	2.547039	2	6.490186

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	Resistor	R16,R233, R240,R24 1, R242,R24 3,R244, R245,R24 6,R247, R248,R24 9,R260, R261,R30 7,R308, R311,R31 3,R317, R318,R33 0,R331, R332,R33 4,R335, R336,R35 0,R351, R352,R42 8,R430, R431,R43 5,R440, R441,R44 4,R445, R489,R49 0,R498, R499,R50 2,R505, R509,R51, R523,R53, R538,R54	2.547039	88	233.145454
	Resistor	R37,R425, R608,R60 9, R828	2.547039	5	14.923560
	Resistor	R618,R62 8,R649	2.547039	3	9.343982
	Resistor	R670,R67 1,R801	2.547039	3	9.343982

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	Resistor	R107,R108,R115,R118,R120,R121,R223,R224,R225,R236,R237,R265,R294,R295,R309,R310,R312,R319,R320,R323,R326,R348,R363,R401,R407,R408,R409,R434,R446,R450,R454,R455,R46,R472,R473,R475,R476,R477,R478,R495,R496,R497,R536,R537,R558,R593,R606,R610,R	2.547039	72	191.533063
	Resistor	R406,R43	2.547039	2	6.490186
	Resistor	R38,R41,R88,R89,R90,R91	2.547039	6	17.675978
	Resistor	R414,R415,R416,R835,R836,R837	2.547039	6	17.675978
	Resistor	R305,R306,R353,R438,R439,R800,R852,R853	2.547039	8	23.134533

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	Resistor	R354,R355,R631,R632,R633,R634,R635,R636,R639,R640,R641,R646,R806	2.547039	13	36.573004
	Resistor	R216,R217,R218,R449,R458,R459,R460,R461	2.547039	8	23.134533
	Resistor	R328	2.547039	1	3.541821
	Resistor	R23,R262,R267,R278,R285,R301,R329,R347,R412,R417,R418,R419,R420,R421,R422,R432,R442,R451,R479,R480,R507,R508,R513,R514,R539,R622,R629,R630,R637,R683,R684,R685,R716,R737,R740,R746,R754,R759,R760,R763,R791,R798,R813,R855,R859,R860,R861,R862	2.547039	48	128.909264
	Resistor	R735	2.547039	1	3.541821
	Resistor	R40,R802,R803	2.547039	3	9.343982

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	Resistor	R286,R665,R666,R667	2.547039	4	12.149228
	Resistor	R365,R366,R367,R368,R369,R370,R381,R382,R383,R384,R385,R386	2.547039	12	33.890167
	Resistor	R364,R373,R376,R377,R380,R389,R392,R393	2.547039	8	23.134533
	Resistor	RT1,RT2	2.547039	2	6.490186
	Capacitor	C191,C192,C209,C210,C41,C42	1.128806	6	7.463816
	Capacitor	C259,C260,C425	1.128806	3	3.883281
	Capacitor	C489,C494	1.128806	2	2.664608
	Capacitor	C170,C171,C172,C173	1.128806	4	5.079407
	Capacitor	C124,C249,C250,C413,C414,C418,C419,C437,C846	1.128806	9	11.005528
	Capacitor	C128,C401,C408	1.128806	3	3.883281
	Capacitor	C123,C154,C398,C406,C410,C421,C441,C443,C485,C490,C913,C914	1.128806	12	14.522865
	Capacitor	C247,C248,C423	1.128806	3	3.883281

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	Capacitor	C146,C309,C311,C313,C315,C341,C342,C888,C889,C890,C891,C892	1.128806	12	14.522865
	Capacitor	C131	1.128806	1	1.418485
	Capacitor	C121,C125,C281,C282,C283,C284,C285,C397,C399,C405,C407,C409,C411,C420,C422,C434,C436,C488,C493	1.128806	19	22.676921
	Capacitor	C254	1.128806	1	1.418485
	Capacitor	C251,C346	1.128806	2	2.664608
	Capacitor	C13,C444,C445,C446,C448,C449,C452,C455,C456,C458,C854,C903,C905	1.128806	13	15.691573

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	Capacitor	C126,C134,C136,C151,C155,C157,C159,C16,C164,C168,C184,C187,C196,C205,C214,C235,C322,C325,C326,C329,C333,C334,C392,C451,C453,C454,C457,C459,C460,C461,C462,C463,C464,C465,C466,C467,C468,C470,C471,C472,C473,C474,C475,C476,C477,C478,C479,C499,C	1.128806	59	68.766337
	Capacitor	C240,C241,C242,C244,C245,C246,C506,C508,C510,C899	1.128806	10	12.180111

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	Capacitor	C10,C11,C12,C15,C17,C18,C186,C19,C193,C197,C20,C203,C204,C21,C211,C215,C22,C221,C23,C24,C26,C27,C28,C29,C30,C31,C32,C33,C34,C6,C7,C8,C9,C904,C909,C910,C912	1.128806	37	43.481716
	Capacitor	C188,C189,C190,C194,C195,C198,C199,C200,C201,C202,C206,C207,C208,C212,C213,C216,C217,C218,C219,C220,C3	1.128806	21	24.997630
	Capacitor	C102,C253,C35,C36,C480,C481,C482,C498,C501,C847,C89,C896,C900,C906,C911,C96,C99	1.128806	17	20.352794

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	Capacitor	C144,C174,C237,C25, C294,C298,C300, C304,C331,C338, C345,C37, C38,C39, C391,C395,C40,C403, C416,C429,C433, C439,C440,C495, C496,C497,C500, C503,C52, C53,C54, C55,C58,C59,C60, C61,C65,C66,C67, C68,C71,C72,C73, C74,C98	1.128806	45	52.688595
	Capacitor	C486,C491,C894	1.128806	3	3.883281
	Capacitor	C149,C160,C162, C163,C165,C166, C255,C256,C257, C258,C261,C438, C469,C95	1.128806	14	16.858773
	Inductor	L15	4.944252	1	6.461578
	Inductor	L2	4.944252	1	6.461578
	Inductor	L10,L11,L12,L9	4.944252	4	22.772366
	Inductor	FB39,FB41,FB42, FB43,FB44	4.944252	5	28.064754

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	Inductor	FB1,FB20, FB22,FB27, FB28,FB29,FB40, FB45,FB48,FB5,FB6	4.944252	14	74.727516
	Inductor	FB7,FB8,FB9			
	Inductor	FB10,FB11,FB12, FB13,FB14,FB15, FB16,FB17,FB21, FB23,FB24,FB25, FB26,FB3,FB30,FB31, FB33,FB34	4.944252	18	95.242007
	Miscellaneous	Y3,Y4,Y5	19.200000	3	174.140039
	Miscellaneous	Y1	19.200000	1	41.938810
	Integrated Circuit	U28,U29, U48	43.803003	3	203.118269
	Integrated Circuit	U45,U47	43.803003	2	146.310248
	Semiconductor	D43,D44	7.793411	2	19.771405
	Semiconductor	Q36,Q52	22.463360	2	57.753076
	Semiconductor	Q27,Q28, Q32,Q34, Q35	22.463360	5	132.418067
	Semiconductor	Q13,Q17, Q18,Q19, Q20,Q23, Q24,Q25, Q29,Q39, Q4,Q40,Q41, Q42,Q43, Q49,Q5,Q58, Q9	22.463360	19	465.217241
	Integrated Circuit	U31,U32	43.803003	2	146.310248
	Integrated Circuit	U30	43.803003	1	85.184662
	Integrated Circuit	U83	43.803003	1	85.184662
	Integrated Circuit	U25	43.803003	1	85.184662
	Integrated Circuit	U26	43.803003	1	85.184662
	Integrated Circuit	U38	43.803003	1	85.184662
	Integrated Circuit	U67	43.803003	1	85.184662
	Integrated Circuit	U69	43.803003	1	85.184662

**Reliability Prediction
Summary**

File Name: RTC-700B.rfp
Assembly: System
Ref Des:
Description:

Failure Rate: 7270.419068
MTBF (hrs): 137,544
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
	Integrated Circuit	U24	43.803003	1	85.184662
	Integrated Circuit	U51	43.803003	1	85.184662
	Integrated Circuit	U78	43.803003	1	85.184662
	Integrated Circuit	U49	43.803003	1	85.184662
	Integrated Circuit	U1	43.803003	1	85.184662
	Integrated Circuit	U10,U7,U8,U9	43.803003	4	257.787974
	Integrated Circuit	U16	43.803003	1	85.184662
	Integrated Circuit	U2,U3,U4,U5,U86	43.803003	5	311.118304
	Integrated Circuit	U17,U19,U35,U40,U41,U42,U43,U62	43.803003	8	466.317038
	Integrated Circuit	U65	43.803003	1	85.184662
	Integrated Circuit	U11,U12	43.803003	2	146.310248
	Integrated Circuit	U6,U80	43.803003	2	146.310248
	Integrated Circuit	U85	43.803003	1	85.184662
	Integrated Circuit	U66	43.803003	1	85.184662