

# ECB-970

## Reliability Prediction Report (MTBF)

Summary	Failure Rate: 7752.422483 ppm MTBF: 128,992 Hours
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Issue date	Approval	Test Engineer
2014/04/29	Tom Lin	Louie Lee

# Reliability Prediction (MTBF)

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**I . Model Name:** ECB-970

**II . Prediction Date:** April. 29, 2014

**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:**

ECB-970 (9697970A03-D):

- Failure Rate: 7752.422483 ppm

- MTBF: 128,992 Hours

**AAEON Reliability Prediction  
Summary**

**File Name:** ECB-970.rfp  
**Duty Cycle:** 100  
**Calculation Model:** Telcordia Issue 2  
**Method:** Method I Case 3

**Failure Rate:** 7752.422483  
**MTBF (hrs):** 128,992  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
ECB-970	9697970A03-D		1	7752.422483	128,992

**File Name:** ECB-970.rfp  
**Assembly:** 9697970A03-D  
**Ref Des:**  
**Description:**

**Failure Rate:** 7752.422483  
**MTBF (hrs):** 128,992  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050507530	Resistor	R147		2.547039	1	282340674.079668
1050510524	Resistor	R331,R605		2.547039	2	154078778.388085
1050513724	Resistor	R604		2.547039	1	282340674.079668
1050524934	Resistor	R606		2.547039	1	282340674.079668
1050547034	Resistor	R345		2.547039	1	282340674.079668
1050564924	Resistor	R339		2.547039	1	282340674.079668
1050569814	Resistor	R344		2.547039	1	282340674.079668
1050700002	Resistor	R336		2.547039	1	282340674.079668
105270000A	Resistor	R13,R14		2.547039	2	154078778.388085
1054600289	Resistor	R403		2.547039	1	282340674.079668
1059704703	Resistor	R267,R269,R 271		2.547039	3	107020754.986850
1059710003	Resistor	R296,R407,R 408, R409		2.547039	4	82309758.689546
105A500133	Resistor	R237,R246,R 250, R261		2.547039	4	82309758.689546
105A500139	Resistor	R984		2.547039	1	282340674.079668
105A501033	Resistor	R126		2.547039	1	282340674.079668
105A501039	Resistor	R36		2.547039	1	282340674.079668
105A501043	Resistor	R989		2.547039	1	282340674.079668
105A501413	Resistor	R235		2.547039	1	282340674.079668
105A502003	Resistor	R555,R556		2.547039	2	154078778.388085
105A502033	Resistor	R121,R127		2.547039	2	154078778.388085
105A502200	Resistor	R239,R240,R 243, R371,R372		2.547039	5	67008142.102588
105A502223	Resistor	R565		2.547039	1	282340674.079668
105A504723	Resistor	R988		2.547039	1	282340674.079668
105A504733	Resistor	R327,R328,R 38		2.547039	3	107020754.986850
105A505123	Resistor	R125		2.547039	1	282340674.079668
105A507503	Resistor	R159,R160,R 161		2.547039	3	107020754.986850
105A510003	Resistor	R351		2.547039	1	282340674.079668
105A510033	Resistor	R155,R158,R 172, R238,R369		2.547039	5	67008142.102588
105A512103	Resistor	R132		2.547039	1	282340674.079668
105A515003	Resistor	R163,R164,R 165		2.547039	3	107020754.986850
105A527463	Resistor	R366		2.547039	1	282340674.079668
105A547033	Resistor	R990		2.547039	1	282340674.079668
105A547529	Resistor	R608		2.547039	1	282340674.079668
105A549913	Resistor	R361,R386,R 44,R45		2.547039	4	82309758.689546
105A553663	Resistor	R134		2.547039	1	282340674.079668
105A560463	Resistor	R218,R219		2.547039	2	154078778.388085

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**Assembly:** 9697970A03-D  
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**Description:**

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A700003	Resistor	R128,R151,R152, R170,R215,R216, R220,R228,R229, R230,R233,R234, R241,R248,R268, R277,R28,R304,R305, R306,R307,R309, R310,R311,R312, R313,R314,R316, R317,R318,R32,R321, R322,R324,R325, R329,R330,R353, R355,R357,R363, R368,R388,R392,R40, R406,R41,R418,R42,		2.547039	51	7312342.249386
105A700009	Resistor	R171,R173,R176, R178,R181,R183, R185,R187,R190, R193,R337,R341, R342,R373,R375, R376,R583,R584, R585,R586,R587, R589,R590,R591, R592,R593		2.547039	26	14061076.827148

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A700133	Resistor	R118,R119,R120, R122,R225,R226, R232,R236,R265, R285,R288,R291, R294,R402		2.547039	14	25477245.255648
105A700139	Resistor	R299,R568,R607		2.547039	3	107020754.986850
105A701033	Resistor	R115,R148,R149, R162,R22,R23,R24, R302,R303,R308, R315,R323,R33,R37, R80,R81		2.547039	16	22425139.809646
105A701053	Resistor	R153,R370		2.547039	2	154078778.388085
105A701533	Resistor	R334		2.547039	1	282340674.079668
105A702223	Resistor	R1,R123,R124,R166, R167,R2,R3,R4,R7, R9		2.547039	10	35079934.879747
105A702233	Resistor	R112,R113		2.547039	2	154078778.388085
105A702263	Resistor	R300		2.547039	1	282340674.079668
105A702733	Resistor	R335		2.547039	1	282340674.079668
105A703303	Resistor	R131,R251,R252, R253,R254		2.547039	5	67008142.102588
105A703903	Resistor	R168,R169		2.547039	2	154078778.388085
105A704723	Resistor	R12,R129,R231,R266, R280,R286,R287, R326,R332,R333, R352,R439,R444		2.547039	13	27342571.921361
105A704733	Resistor	R130		2.547039	1	282340674.079668
105A704739	Resistor	R569		2.547039	1	282340674.079668
105A705123	Resistor	R114		2.547039	1	282340674.079668
105A705133	Resistor	R404		2.547039	1	282340674.079668
105A707503	Resistor	R116,R117		2.547039	2	154078778.388085
105A708223	Resistor	R244,R245,R255, R256,R260,R263		2.547039	6	56573956.677649

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105A710033	Resistor	R272,R39		2.547039	2	154078778.388085
105A710039	Resistor	R16,R17,R41 2,R609, R611		2.547039	5	67008142.102588
105A712033	Resistor	R405		2.547039	1	282340674.079668
105A715003	Resistor	R29,R30,R31		2.547039	3	107020754.986850
105A722003	Resistor	R10,R293,R8		2.547039	3	107020754.986850
105A730009	Resistor	R603		2.547039	1	282340674.079668
105A733003	Resistor	R289,R290,R 292, R295,R297		2.547039	5	67008142.102588
105B500379	Resistor	R348,R349,R 350, R411,R415		2.547039	5	67008142.102588
1121501680	Capacitor	C10,C104,C1 05,C107, C108,C11,C1 10,C113, C125,C138,C 141, C143,C144,C 145, C146,C147,C 148, C156,C168,C 169, C200,C201,C 202, C203,C204,C 214, C215,C216,C 218, C219,C220,C 221, C222,C238,C 240, C246,C247,C 252, C253,C254,C 37,C38, C39,C40,C41 ,C42, C43,C44,C73 ,C74, C7		1.128806	54	15865848.114680
1121501690	Capacitor	C140,C172,C 176, C178,C233,C 27,C28, C29,C30,C34 ,C544, C546,C551		1.128806	13	63728475.410842



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1121501691	Capacitor	C574,C578,C579		1.128806	3	257514172.353070
1121610180	Capacitor	C149,C150,C151,C152,C57,C58,C64,C65,C71,C72		1.128806	10	82101057.548118
1122501780	Capacitor	C167,C180,C181,C182,C183,C184,C185,C186,C187,C188,C189,C190,C191,C192,C193,C194,C195,C196,C197,C207,C208,C209,C210,C211,C212,C24,C242,C243,C244,C245,C248,C249,C250,C251		1.128806	34	24984844.161172
1122722080	Capacitor	C117,C118,C119,C79		1.128806	4	196873384.410843
1124410080	Capacitor	C120,C121,C122,C153,C154,C198		1.128806	6	133979725.056342
1124427080	Capacitor	C126,C127,C128,C129		1.128806	4	196873384.410843
1124447180	Capacitor	C136,C14,C18,C213,C22,C33,C36		1.128806	7	115633865.771428
1124510280	Capacitor	C111,C241		1.128806	2	375289731.076049
1124522680	Capacitor	C116,C123,C124		1.128806	3	257514172.353070
1129710390	Capacitor	C231		1.128806	1	704977644.692287
1181627191	Capacitor	C160		4.744484	1	159663026.715137
1189610189	Capacitor	C561		4.744484	1	159663026.715137
1189615150	Capacitor	C173,C174,C229		4.744484	3	59399119.141203

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1189615154	Capacitor	C106,C13,C17,C21,C26,C32,C572,C577,C60,C62		4.744484	10	19193879.126421
1189633181	Capacitor	C255		4.744484	1	159663026.715137
1189633193	Capacitor	C161		4.744484	1	159663026.715137
11C1501080	Capacitor	C15,C158,C159,C19,C23,C236,C237,C5,C555,C557,C559,C560,C7,C75		1.128806	14	59316298.011235
11C2510480	Capacitor	C163,C165,C166,C206,C228,C230,C258		1.128806	7	115633865.771428
11C4501380	Capacitor	C142		1.128806	1	704977644.692287
11C4510480	Capacitor	C35		1.128806	1	704977644.692287
11E1510050	Capacitor	C100,C101,C102,C103,C112,C130,C2,C3		1.128806	8	101746760.035398
11E1522680	Capacitor	C550,C553,C554,C558,C824		1.128806	5	159367490.199266
11E2510060	Capacitor	C225,C226,C227		1.128806	3	257514172.353070
11E9501091	Capacitor	C232,C575,C581		1.128806	3	257514172.353070
11E9510050	Capacitor	C573,C580		1.128806	2	375289731.076049
11E9547630	Capacitor	C217		1.128806	1	704977644.692287
11E9547680	Capacitor	C543		1.128806	1	704977644.692287
11E9547682	Capacitor	C545,C547,C548,C556		1.128806	4	196873384.410843
11E9610080	Capacitor	C109,C114,C112,C139,C16,C162,C164,C170,C171,C175,C179,C199,C20,C239,C25,C256,C257,C31,C4,C59,C6,C61,C63,C66,C67,C68,C69,C70,C76,C78,C81		1.128806	31	27349602.091781

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11E9610160	Capacitor	C223,C224		1.128806	2	375289731.076049
11E9622080	Capacitor	C134,C135,C137		1.128806	3	257514172.353070
11E9647690	Capacitor	C177		1.128806	1	704977644.692287
121110336Y	Inductor	L9		4.944252	1	154760964.143460
121112207C	Inductor	L10		4.944252	1	154760964.143460
1212306030	Inductor	FB10,FB14,FB15,FB21,FB25		4.944252	5	35631881.582999
1212306035	Inductor	FB11,FB12,FB16,FB17,FB18,FB19,FB22,FB23,FB24		4.944252	9	20443842.451049
1212308054	Inductor	FB1,FB27,FB28,FB29,FB3,FB4,FB7,FB8		4.944252	8	22874049.098230
12123C0006	Inductor	FB35,FB36,FB37,FB38,FB42		4.944252	5	35631881.582999
12123C0014	Inductor	FB45,FB46,FB47,FB48,FB49,FB50		4.944252	6	30055900.223009
1214309008	Inductor	CH13,CH15,CH16,CH17,CH18,CH5,CH6,CH7,CH8		4.944252	9	20443842.451049
1214309009	Inductor	CH10,CH11,CH12,CH9		4.944252	4	43912872.424775
1301002240	Semiconductor	D28,D29,D39		7.793411	3	35106858.962001
1301005442	Semiconductor	D21,D23,D27,D42		7.793411	4	26989084.126235
1301005443	Semiconductor	D22		7.793411	1	92807310.010983
1301005444	Semiconductor	D24,D25,D30		7.793411	3	35106858.962001
1301013040	Semiconductor	D19,D40,D41		7.793411	3	35106858.962001
1304001340	Optical Device	LED1,LED2,LED3,LED9		79.003355	4	2148119.082046
1304021660	Optical Device	LED7,LED8		79.003355	2	3783722.582110
1304101340	Optical Device	LED4,LED5,LED6		79.003355	3	2725958.067754
1305050040	Semiconductor	U59,U60,U62,U63,U64,U65		7.793411	6	18540453.699406

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1305080040	Semiconductor	D1,D10,D11, D12,D13, D14,D15,D16 ,D17, D18,D2,D20, D3,D31, D32,D33,D34 ,D35, D36,D37,D38 ,D4,D5, D6,D7,D8,D9 ,U29, U30		7.793411	29	4140586.240597
1310390413	Semiconductor	Q18,Q55		22.463360	2	17315095.066101
1314111713	Semiconductor	U14		22.463360	1	31642600.748419
1315013810	Semiconductor	Q32,Q4,Q5		22.463360	3	12043329.789539
1315030110	Semiconductor	Q1,Q2		22.463360	2	17315095.066101
1315200312	Semiconductor	Q30,Q31		22.463360	2	17315095.066101
1315230114	Semiconductor	Q12		22.463360	1	31642600.748419
1315230511	Semiconductor	Q33,Q6		22.463360	2	17315095.066101
1315441012	Semiconductor	Q27,Q28		22.463360	2	17315095.066101
1315667910	Semiconductor	Q29,Q40		22.463360	2	17315095.066101
1315700216	Semiconductor	Q10,Q11,Q1 3,Q14, Q15,Q16,Q1 7,Q21, Q22,Q23,Q2 4,Q25, Q26,Q34,Q3 5,Q37, Q41,Q51,Q5 2,Q53,Q7, Q8,Q9		22.463360	23	1789160.944012
1315720010	Semiconductor	Q54		22.463360	1	31642600.748419
1315970211	Semiconductor	U1,U2,U3,U4 ,U5		22.463360	5	7551839.591592
1420020430	Integrated Circuit	U46,U47,U48 ,U49, U51,U52		43.803003	6	2750969.191556
143ALC8920	Integrated Circuit	U13		43.803003	1	11739202.588727
143CM20200	Integrated Circuit	U53		43.803003	1	11739202.588727
143WM89620	Integrated Circuit	U58		43.803003	1	11739202.588727
1440010500	Integrated Circuit	U28		43.803003	1	11739202.588727
1490V1T340	Integrated Circuit	U66,U67		43.803003	2	6834791.244197
14S2200900	Integrated Circuit	U18		43.803003	1	11739202.588727
14S2204200	Integrated Circuit	U44,U45		43.803003	2	6834791.244197
14S2321900	Integrated Circuit	U55		43.803003	1	11739202.588727
14S3104500	Integrated Circuit	U19,U22,U25 ,U6,U7		43.803003	5	3214211.402100
14S3111701	Integrated Circuit	U75		43.803003	1	11739202.588727
14S3322100	Integrated Circuit	U8		43.803003	1	11739202.588727

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
14S3524700	Integrated Circuit	U21		43.803003	1	11739202.588727
14S3524701	Integrated Circuit	U16		43.803003	1	11739202.588727
14S3917900	Integrated Circuit	U57		43.803003	1	11739202.588727
14S4322200	Integrated Circuit	U36		43.803003	1	11739202.588727
14S4519500	Integrated Circuit	U33		43.803003	1	11739202.588727
14S4650601	Integrated Circuit	U43		43.803003	1	11739202.588727
14S4871300	Integrated Circuit	U10,U11		43.803003	2	6834791.244197
14S4911216	Integrated Circuit	U34		43.803003	1	11739202.588727
14S5912300	Integrated Circuit	U87		26.018600	1	25551442.237972
14S5A00401	Integrated Circuit	U70		26.018600	1	25551442.237972
14S5A00703	Integrated Circuit	U32		26.018600	1	25551442.237972
14S5A00821	Integrated Circuit	U17,U20,U9		26.018600	3	9949526.289768
14S5A12506	Integrated Circuit	U71		26.018600	1	25551442.237972
14S8253609	Integrated Circuit	U50		26.018600	1	25551442.237972
14S9811500	Integrated Circuit	U88		43.803003	1	11739202.588727
1540700081	Resistor	RP1,RP2,RP3,RP8		9.971436	4	17049357.262242
1540712180	Resistor	RP4,RP5,RP6,RP7		9.971436	4	17049357.262242
1601123000	Connection	SW1,SW2,SW3,SW4		16.184835	4	11344857.509064
1652517207	Connection	CN14		16.184835	1	35685591.360212
165252220A	Connection	CN72		16.184835	1	35685591.360212
1653003102	Connection	CN24,CN61		16.184835	2	20390152.380746
165300310F	Connection	CN27,CN28,CN29,CN3, CN42,CN44,CN46, CN48,CN50,CN69		16.184835	10	5037852.012953
165300310G	Connection	CN10,CN13,CN40, CN52,CN53,CN54, CN59,CN66,JP2		16.184835	9	5541152.623690
1653003200	Connection	CN21,CN65		16.184835	2	20390152.380746
165300320L	Connection	CN15,CN16,CN18, CN19,CN20,CN22, CN25,CN26,CN55, CN56,CN60		16.184835	11	4620307.940928
165300410B	Connection	CN36,CN38		16.184835	2	20390152.380746
1653005202	Connection	CN2		16.184835	1	35685591.360212
165300520W	Connection	CN51		16.184835	1	35685591.360212
1653006100	Connection	CN63		16.184835	1	35685591.360212
1653205261	Connection	CN41		16.184835	1	35685591.360212

File Name: ECB-970.rfp  
 Assembly: 9697970A03-D  
 Ref Des:  
 Description:

Failure Rate: 7752.422483  
 MTBF (hrs): 128,992  
 Temperature: 30  
 Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1653300100	Connection	CN29(2-3), CN50(2-3), CN65(3-5)		16.184835	3	14515880.849373
1653300101	Connection	CN21(3-5), CN21(4-6), CN24(1-2), CN27(2-3), CN28(2-3), CN3(2-3), CN42(2-3), CN44(1-2), CN46(1-2), CN48(2-3), CN61(2-3), CN65(4-6), CN69(1-2)		16.184835	13	3966892.850888
165330010E	Connection	CN10(1-2), CN13(1-2), CN15(3-5), CN15(4-6), CN16(3-5), CN16(4-6), CN18(3-5), CN19(3-5), CN19(4-6), CN20(3-5), CN20(4-6), CN22(3-5), CN22(4-6), CN25(3-5), CN25(4-6), CN26(3-5), CN26(4-6), CN40(2-3), CN52(1-2), CN53(1-2), CN54(1-2), CN55(1-3), CN55(2-4), CN		16.184835	30	1826442.404687
1654030003	Connection	CN17,CN31,C N6,CN67		16.184835	4	11344857.509064
1654218200	Connection	CN39		16.184835	1	35685591.360212
1654232200	Connection	CN64		16.184835	1	35685591.360212
1654401932	Connection	CN71		16.184835	1	35685591.360212
1654415305	Connection	CN32		16.184835	1	35685591.360212
1654800510	Connection	CN9		16.184835	1	35685591.360212
1654816200	Connection	CN68		16.184835	1	35685591.360212
1654818301	Connection	CN8		16.184835	1	35685591.360212
1654907003	Connection	CN11,CN12		16.184835	2	20390152.380746
1654914200	Connection	CN73		16.184835	1	35685591.360212
1654920309	Connection	CN34		16.184835	1	35685591.360212

**File Name:** ECB-970.rfp  
**Assembly:** 9697970A03-D  
**Ref Des:**  
**Description:**

**Failure Rate:** 7752.422483  
**MTBF (hrs):** 128,992  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
16549B5303	Connection	CN1		16.184835	1	35685591.360212
1655004014	Connection	CN45		16.184835	1	35685591.360212
1655305025	Connection	CN30,CN35		16.184835	2	20390152.380746
1655424020	Connection	CN49		16.184835	1	35685591.360212
1655901000	Connection	CN33		16.184835	1	35685591.360212
1655907131	Connection	CN47		16.184835	1	35685591.360212
1655909031	Connection	CN37,CN70		16.184835	2	20390152.380746
1655912032	Connection	CN43		16.184835	1	35685591.360212
175011901H	Miscellaneous	U42		306.000000	1	1681683.006787
1750220326	Connection	BT1		16.184835	1	35685591.360212
1752001603	Miscellaneous	FS1,FS2		2.400000	2	143944727.196625
1752015003	Miscellaneous	FS11,FS6,FS8,FS9		2.400000	4	79281882.025954
1752316F00	Miscellaneous	FS10,FS5,FS7		2.400000	3	101854599.204190