

RTC-600A

Reliability Prediction Report

(MTBF)

Summary	Failure Rate: 5040.208724 ppm MTBF: 198,404 Hours
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Issue date	Approval	Test Engineer
2015/12/28	KJ Wang	Anderson Lin

Reliability Prediction (MTBF)

I . Model Name: RTC-600A

II . Prediction Date: Dec. 28, 2015

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-600A (9697600A07-D) (not include Battery, LCD, Touch screen, Adapter.):

- Failure Rate: 5040.208724 ppm
- MTBF: 198,404 Hours

File Name: RTC-600A.rfp
Duty Cycle: 100
Calculation Model: Telcordia Issue 1
Method: Method I Case 3

Failure Rate: 5040.208724
MTBF (hrs): 198,404
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
RTC-600A	System		1	5040.208724	198,404

File Name: RTC-600A.rfp
Assembly: System
Ref Des:
Description:

Failure Rate: 5040.208724
MTBF (hrs): 198,404
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
	Resistor			2.497097	1	400465049.330154
	Resistor			2.497097	1	400465049.330154
	Resistor			2.497097	1	400465049.330154
	Resistor			2.497097	1	400465049.330154
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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
	Semiconductor			27.506155	1	36355499.331785
	Semiconductor			27.506155	1	36355499.331785
	Semiconductor			27.506155	1	36355499.331785
	Semiconductor		32.5	62.200307	1	16077090.972385
	Semiconductor			27.506155	1	36355499.331785
	Semiconductor			27.506155	1	36355499.331785
	Semiconductor			27.506155	1	36355499.331785
	Semiconductor			27.506155	1	36355499.331785
	Semiconductor			27.506155	1	36355499.331785
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	Semiconductor			27.506155	1	36355499.331785
	Semiconductor			27.506155	1	36355499.331785
	Semiconductor			27.506155	1	36355499.331785
	Semiconductor			27.506155	1	36355499.331785
	Semiconductor			27.506155	1	36355499.331785
	Semiconductor			27.506155	1	36355499.331785
	Integrated Circuit			85.069153	1	11755142.304947
	Integrated Circuit			85.069153	1	11755142.304947
	Integrated Circuit			85.069153	1	11755142.304947
	Integrated Circuit			85.069153	1	11755142.304947
	Integrated Circuit			85.069153	1	11755142.304947
	Integrated Circuit			85.069153	1	11755142.304947
	Integrated Circuit			85.069153	1	11755142.304947
	Integrated Circuit			85.069153	1	11755142.304947
	Integrated Circuit			85.069153	1	11755142.304947
	Integrated Circuit		33	698.715406	1	1431197.869283
	Integrated Circuit			85.069153	1	11755142.304947
	Integrated Circuit			85.069153	1	11755142.304947
	Integrated Circuit		23	386.120321	1	2589866.284499
	Integrated Circuit			85.069153	1	11755142.304947
	Integrated Circuit			85.069153	1	11755142.304947
	Integrated Circuit			85.069153	1	11755142.304947
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	Integrated Circuit			85.069153	1	11755142.304947
	Integrated Circuit			85.069153	1	11755142.304947
	Integrated Circuit			85.069153	1	11755142.304947
	Integrated Circuit		27.2	497.514240	1	2009992.720373
	Integrated Circuit			85.069153	1	11755142.304947
	Integrated Circuit			85.069153	1	11755142.304947
	Integrated Circuit			85.069153	1	11755142.304947
	Connection			36.783715	1	27185943.669857
	Connection			36.783715	1	27185943.669857
	Connection			36.783715	1	27185943.669857
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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
	Connection			36.783715	1	27185943.669857
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	Connection			36.783715	1	27185943.669857
	Connection			36.783715	1	27185943.669857
	Connection			36.783715	1	27185943.669857
	Connection			36.783715	1	27185943.669857
	Integrated Circuit			85.069153	1	11755142.304947
	Capacitor			5.644030	1	177178372.261125
	Capacitor			5.644030	1	177178372.261125
	Capacitor			5.644030	1	177178372.261125
	Inductor			2.497097	1	400465049.330154
	Connection			36.783715	1	27185943.669857
	Connection			36.783715	1	27185943.669857