

# DASH7E1DC

## Reliability Prediction Report

### (MTBF)

Summary	Failure Rate: 1206.113250 ppm MTBF: 829,110 Hours
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Issue date	QE Manager	Test Engineer
2016/1/7	KJ Wang	Anderson Lin

# Reliability Prediction (MTBF)

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**I . Model Name:** DASH7E1DC

**II . Prediction Date:** Jan. 7, 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:**

DASH7E1DC (96977EDC83-D)

- Failure Rate: 1206.113250 ppm

- MTBF: 829,110 Hours

**AAEON Reliability Prediction  
Summary**

**File Name:** DASH7E1DC.rfp  
**Duty Cycle:** 100  
**Calculation Model:** Telcordia Issue 1  
**Method:** Method I Case 3

**Failure Rate:** 1206.113250  
**MTBF (hrs):** 829,110  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
DASH7E1DC	System		1	1206.113250	829,110

**File Name:** DASH7E1DC.rfp  
**Assembly:** System  
**Ref Des:**  
**Description:**

**Failure Rate:** 1206.113250  
**MTBF (hrs):** 829,110  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
	Connection			36.783715	1	27185943.669857
	Capacitor			5.644030	1	177178372.261125
	Capacitor			5.644030	1	177178372.261125
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	Capacitor			5.644030	1	177178372.261125
	Capacitor			5.644030	1	177178372.261125
	Connection			36.783715	1	27185943.669857
	Semiconductor			27.506155	1	36355499.331785
	Semiconductor			27.506155	1	36355499.331785
	Inductor			2.497097	1	400465049.330154
	Semiconductor			27.506155	1	36355499.331785
	Inductor			2.497097	1	400465049.330154
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	Semiconductor			27.506155	1	36355499.331785
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	Resistor			2.497097	1	400465049.330154
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	Resistor			2.497097	1	400465049.330154
	Resistor			2.497097	1	400465049.330154
	Integrated Circuit			85.069153	1	11755142.304947
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	Semiconductor			27.506155	1	36355499.331785
	Inductor			2.497097	1	400465049.330154
	Capacitor			5.644030	1	177178372.261125
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**Reliability Prediction  
Summary**

**File Name:** DASH7E1DC.rfp  
**Assembly:** System  
**Ref Des:**  
**Description:**

**Failure Rate:** 1206.113250  
**MTBF (hrs):** 829,110  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
	Semiconductor			27.506155	1	36355499.331785
	Inductor			2.497097	1	400465049.330154
	Resistor			2.497097	1	400465049.330154
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	Resistor			2.497097	1	400465049.330154
	Integrated Circuit			85.069153	1	11755142.304947
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	Integrated Circuit			85.069153	1	11755142.304947
	Semiconductor			27.506155	1	36355499.331785
	Capacitor			5.644030	1	177178372.261125
	Capacitor			5.644030	1	177178372.261125
	Connection			36.783715	1	27185943.669857
	Connection			36.783715	1	27185943.669857