

# AEC-7450

## Reliability Prediction Report (MTBF)

Report NO : 08P070021

**10-09-2008**

Issue Date

**Wenyuan Yang**

Manager

**Jessica Chou**

Test Engineer

## Reliability Prediction (MTBF)

---

I . **Model Name:** TF-AEC-7450-A1-0010

II . **Prediction Date:** Oct. 9<sup>th</sup>, 2008

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

IV . **Predicted by:** Jessica Chou

V . **Equipment:** Relex Ver.7.3 Visual Reliability Software

### VI. Simulation Environment:

- Temperature: 22.6 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 multiplier is 1,000,000.
- MTBF : MTBF is always specified in hours.

### VIII. Prediction Result:

TF-AEC-7450-A1-0010 (not include CPU Board) :

Failure Rate: 1.903988 ppm

MTBF: 525,213 Hours

CPU Board provided by the supplier:

(ASS'Y EPIC CPU board.-40C to +85C.for AEC-7450.Fastwel.CPC800-02-P1.8-RAM1024-1)

MTBF: 110,000 Hours (Standard :Telcordia at ambient temperature 30°C)

### AAEON Reliability Prediction Report

**Part Number** System  
**Reference Des**  
**Date** 10. 9, 2008  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 22.60



**Description** Top-level assembly  
**File Name** TF-AEC-7450-A1-0010.RPJ  
**Time** 1:13 下午  
**Failure Rate** 1.903988  
**MTBF** 525,213

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-AEC-7450-A1-0010 ASS'Y Power Board P02D A1.1	System 9697P02D10-DIP	Bellcore Bellcore	Method I Case 3 Method I Case 3	GF, GU - Ground Fixed, GF, GU - Ground Fixed,	100.00	1.00 1.00	1.903988 1.903988	525,213 525,213



