

# **MTBF** Report

### **Identification Data**

Name of device SmartMotion WIFI PD

Order codes ST3521902x

**Sort** Router with two independent cellular modules

Created, date Petr Hanuš, VPTO, April 21, 2016
Authorized, date Pavel Kopecký, VTO, April 21, 2016

### **Prediction Method**

MIL-HDBK-217F-2, parts count

#### **Prediction Data**

Temp 25 °C

**FR** 9766.8 FITS

**MTBF** 102387 hours, 11.7 years

**SF** 33 %

MTBF final 307470 hours, 35.1 years

 Op. Time T
 5 years

 Probability R(T)
 87 %

 R(T) in -25/+55C
 65 %

## **Explanatory Notes**

**Temp** – Temperature at reference conditions.

FR - Failure rate: It's the rate of product failures expressed as a function of time.

MTBF - Mean Time Between Failures is a prediction of a power supply's reliability.

**SF** – Severity factor: Degree of severity in the event of failure.

MTBF final - MTBF including Severity factor.

**Op. time T** – Operating time of interest.

Probability R(T) – Probability that the product will operate for the Op. time T without a failure.

R(T) in -25/+55C - Probability in specified interval.

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