

# MTBF Report

## Identification Data

<b>Name of device</b>	SmartMotion PD
<b>Order codes</b>	ST3520902x
<b>Sort</b>	Router with two independent cellular modules
<b>Created, date</b>	Petr Hanuš, VPTO, April 21, 2016
<b>Authorized, date</b>	Pavel Kopecký, VTO, April 21, 2016

## Prediction Method

MIL-HDBK-217F-2, parts count

## Prediction Data

<b>Temp</b>	25 °C
<b>FR</b>	8927.1 FITS
<b>MTBF</b>	112018 hours, 12.8 years

<b>SF</b>	33 %
<b>MTBF final</b>	336391 hours, 38.4 years

<b>Op. Time T</b>	5 years
<b>Probability R(T)</b>	88 %
<b>R(T) in -25/+55C</b>	68 %

## 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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