

MTBF Report

Identification Data

Name of device	SmartMotion WIFI PD
Order codes	ST3551902x
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	9982.9 FITS
MTBF	100171 hours, 11.4 years

SF	33 %
MTBF final	300814 hours, 34.3 years

Op. Time T	5 years
Probability R(T)	86 %
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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