

MTBF Report

Identification Data

Name of device	SmartFlex RS232 RS485 ETH WIFI PSE
Order codes	SR308184xx
Sort	LTE Industrial Router
Created, date	Roman Peřura, PDE, May 29, 2018
Authorized, date	Jan Otte, VTO, May 29, 2018

Prediction Method

MIL-HDBK-217F-2, parts count

Prediction Data

Temp	25 °C
FR	9028.7 FITS
MTBF	110758 hours, 12.6 years

SF	33 %
MTBF final	332607 hours, 38.0 years

Op. Time T	5 years
Probability R(T)	88 %
R(T) in -25/+55C	67 %

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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