

# MTBF Report

## Identification Data

<b>Name of device</b>	SmartFlex RS232 RS485 PSE
<b>Order codes</b>	SR308083xx
<b>Sort</b>	LTE Industrial Router
<b>Created, date</b>	Roman Peřura, PDE, May 29, 2018
<b>Authorized, date</b>	Jan Otte, DOE, May 29, 2018

## Prediction Method

MIL-HDBK-217F-2, parts count

## Prediction Data

<b>Temp</b>	25 °C
<b>FR</b>	8440.5 FITS
<b>MTBF</b>	118477 hours, 13.5 years

<b>SF</b>	33 %
<b>MTBF final</b>	355786 hours, 40.6 years

<b>Op. Time T</b>	5 years
<b>Probability R(T)</b>	88 %
<b>R(T) in -25/+55C</b>	69 %

## 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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