

MTBF Report

Identification Data

Name of device	Smartflex RS232 RS485 ETH WIFI
Order codes	SR310104xx
Sort	LTE Industrial Router
Created, date	Michal Hašek, DCE, May 25, 2023
Authorized, date	Petr Hanuš, PME, May 25, 2023

Prediction Method

MIL-HDBK-217F-2, parts count

Prediction Data

Temp	25 °C
FR	8335,2 FITS
MTBF	119973 hours, 13,7 years



SF	33 %
MTBF final	360279 hours, 41,1 years

Op. Time T	5 years
Probability R(T)	89 %
R(T) in -25/+55C	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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