

MTBF Report

Identification Data

Name of device	SmartStart SL305
Order codes	SL305001xx
Sort	LTE Industrial Router
Created, date	Jakub Zikuška, PDE, April 1, 2022
Authorized, date	Radomír Svoboda, DOE, April 1, 2022

Prediction Method

MIL-HDBK-217F-2, parts count

Prediction Data

Temp	25 °C
FR	5523.8 FITS
MTBF	181036 hours, 20.7 years

SF	33 %
MTBF final	543650 hours, 62.1 years

Op. Time T	5 years
Probability R(T)	92 %
R(T) in -25/+55C	79 %

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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