ADVANTECH

MTBF Report

Identification Data

Name of device	ICR-4461
Order codes	ICR-4461S
Sort	LTE Industrial Router
Created, date	Jakub Zikuška, PDE, January 17, 2023
Authorized, date	Radomír Svoboda, DOE, January 17, 2023

Prediction Method

MIL-HDBK-217F-2, parts count

Prediction Data

Temp	25 °C
FR	9908,8 FITS
MTBF	100920 hours, 11,5 years
SF	33 %
MTBF final	303065 hours, 34,6 years
Op. Time T	5 years
Probability R(T)	87 %
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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