

MTBF Report

Identification Data

Name of device	ICR-4161
Order codes	ICR-4161W
Sort	5G Industrial Router
Created, date	Jakub Zikuška, PDE, February 1, 2024
Authorized, date	Petr Hanuš, DOE, February 1, 2024

Prediction Method

MIL-HDBK-217F-2, parts count

Prediction Data

Temp	25 °C
FR	7692,5 FITS
MTBF	129997 hours, 14,8 years



SF	33 %
MTBF final	390381 hours, 44,6 years

Op. Time T	5 years
Probability R(T)	89 %
R(T) in -25/+55C	71 %

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.

This document is know-how of the Advantech Czech s.r.o. company. It may not be handed over to third person or abuse without permit.