MTBF-2022-01

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MTBF Report

Identification Data

| Name of device | ICR-2701 |
|------------------|--|
| Order codes | ICR-2701 |
| Sort | LAN Industrial Router |
| Created, date | Jakub Zikuška, PDE, January 20, 2022 |
| Authorized, date | Radomír Svoboda, DOE, January 20, 2022 |

Prediction Method

MIL-HDBK-217F-2, parts count

Prediction Data

| Temp | 25 °C |
|------------|--------------------------|
| FR | 4173,7 FITS |
| MTBF | 239593 hours, 27,4 years |
| SF | 33 % |
| MTBF final | 719498 hours, 82,1 years |
| | _ |

| Op. Time T | 5 years |
|------------------|---------|
| Probability R(T) | 94 % |
| R(T) in -25/+55C | 83 % |

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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