

MTBF Report

Identification Data

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|-------------------------|--|
| Name of device | SmartMotion PD |
| Order codes | ST3550902x |
| Sort | Router with two independent cellular modules |
| Created, date | Petr Hanuš, VPTO, April 21, 2016 |
| Authorized, date | Pavel Kopecký, VTO, April 21, 2016 |

Prediction Method

MIL-HDBK-217F-2, parts count

Prediction Data

| | |
|-------------|--------------------------|
| Temp | 25 °C |
| FR | 9143.2 FITS |
| MTBF | 109371 hours, 12.5 years |

| | |
|-------------------|--------------------------|
| SF | 33 % |
| MTBF final | 328442 hours, 37.5 years |

| | |
|-------------------------|---------|
| Op. Time T | 5 years |
| Probability R(T) | 88 % |
| R(T) in -25/+55C | 67 % |

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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