

Surge arrester

3-electrode arrester

Series/Type:EZ0-A90XSMDOrdering code:B88069X6051T902Version/Date:Issue 04 / 2011-10-21

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Surge arrester

3-electrode arrester

B88069X6051T902 EZ0-A90XSMD

Features

- Very small size
- Fast response time
- High current rating
- Stable performance over life
- Very low capacitance
- High insulation resistance
- Excellent SMD handling
- RoHS-compatible

Electrical specifications

Applications

- Branch exchange (MDF)
- Line protection
- Station protection

| DC spark-over voltage ^{1) 2) 3)} | | | 90 ± 20 | V % |
|---|---|--|---------------------|-------------|
| Impulse spark-over voltage ³⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution | | | < 450 < 350 | VVV |
| at 1 kV/µs | for 99 % of measured values typical values of distribution | | < 600 < 500 | V V |
| Service life10 operations $50 \text{ Hz}, 1 \text{ s}^{4)}$ 1 operation $50 \text{ Hz}, 0.18 \text{ s}^{4)}$ | | 10 10 | A A | |
| 10 operations [5x (+) & 5x (-)] 8/20 μs 4) 1 operation 10/350 μs 4) 300 operations (alternating polarity) 10/1000 μs 4) | | 10 1 200 | kA kA A | |
| Insulation resistance at 50 V_{DC} ³⁾ | | | > 1 | GΩ |
| Capacitance at 1 MHz ³⁾ | | | < 1.5 | pF |
| Transverse delay time ⁵⁾ | | | < 0.2 | μs |
| Arc voltage at 1 A Glow to arc transition current Glow voltage | | | ~ 10 ~ 1 ~ 80 | V A V |
| Weight | | | ~ 1.0 | g |
| Operation and storage temperature | | | -40 +90 | °C |
| Climatic category (IEC 60068-1) | | | 40/ 90/ 21 | |
| Marking, blue negative | | EPCOS EZ 90 YY OEZ- Series90- Nominal voltageYY- Year of productionO- Non radioactive | | |

Remarks on next page above

PPD AB PD / PPD AB PM

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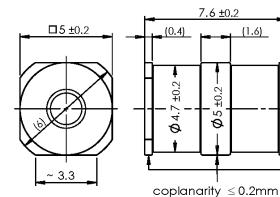
- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- ²⁾ In ionized mode
- ³⁾ Tip or ring electrode to center electrode
- ⁴⁾ Total current through center electrode, half value through tip respectively ring electrode.

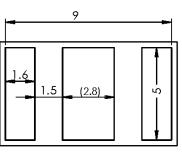
EPCOS

⁵⁾ Test according to ITU-T Rec. K.12

Terms in accordance with ITU-T Rec. K.12 and IEC 61663-2

Dimensional drawing in mm





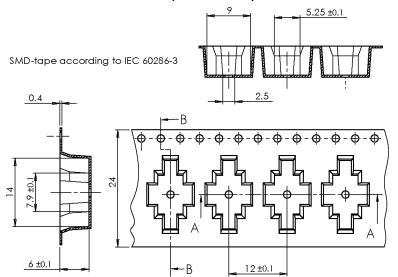


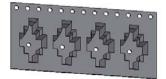
recommended pad outline

tin-plated

Ordering code and packing advice

B88069X...**T902** = SMD-tape with 900 pcs





Cautions and warnings

- Surge arresters must not be operated directly in power supply networks.
- Surge arresters may become hot in case of longer periods of current stress (danger of burning).
- Surge arresters may be used only within their specified values. In case of overload, the head contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

PPD AB PD / PPD AB PM



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