

Surge arrester

2-electrode arrester

 Series/Type:
 ES90XP

 Ordering code:
 B88069X5151B502

 Version/Date:
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| Features | Applications |
|--|-----------------------------------|
| Extremely small size | Modem |
| Very fast response time | XDSL-splitter |
| Stable performance over life | Data lines |
| Extremely low capacitance | Tuner |
| High insulation resistance | Antenna |
| RoHS-compatible | |

Electrical specifications

| DC spark-over voltage ^{1) 2)} | 90 | V | |
|--|---|------------|--|
| | ± 20 | % | |
| Impulse spark-over voltage | | | |
| at 100 V/µs - for 99 % of measured values | < 450 | V | |
| typical values of distribution | < 300 | V | |
| at 1 kV/µs - for 99 % of measured values | < 600 | V | |
| typical values of distribution | < 550 | V | |
| Service life | | | |
| 10 operations 50 Hz, 1 s | 2.5 | А | |
| 10 operations 8/20 μs | 2.5 | kA | |
| 1 operation 8/20 µs | 5 | kA | |
| Insulation resistance at 50 V_{dc} | > 1 | GΩ | |
| Capacitance at 1 MHz | < 1 | pF | |
| Arc voltage at 1 A | ~ 10 | V | |
| Glow to arc transition current | < 0.5 | A | |
| Glow voltage | ~ 40 | V | |
| Weight | ~ 0.3 | g | |
| Operation and storage temperature | -40 +90 | °C | |
| Climatic category (IEC 60068-1) | 40/ 90/ 21 | 40/ 90/ 21 | |
| Marking, red positive | EPCOSES 90 YY ES - Series 90 - Nominal voltag YY - Year of produc O - Non radioactive | e tion | |

1) At delivery AQL 0.65 level II, DIN ISO 2859

²⁾ In ionized mode

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Please read *Cautions and warnings* and *Important notes* at the end of this document.

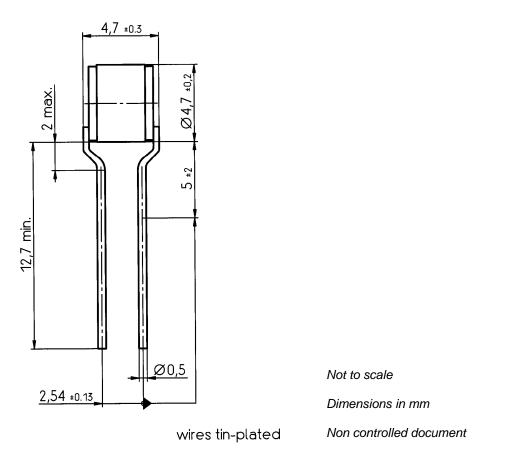


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Dimensional drawing



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.

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