



## Surge arrester

2-electrode arrester

**Series/Type:** ES300XP  
**Ordering code:** B88069X4180B502  
Version/Date: Issue 03 / 2006-09-27

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| Features  | Applications  |
|---|---|
| <ul style="list-style-type: none"> <li>▪ Extremely small size</li> <li>▪ Very fast response time</li> <li>▪ Stable performance over life</li> <li>▪ Extremely low capacitance</li> <li>▪ High insulation resistance</li> <li>▪ RoHS-compatible</li> </ul> | <ul style="list-style-type: none"> <li>▪ Modem</li> <li>▪ XDSL-splitter</li> <li>▪ Tuner</li> </ul> |

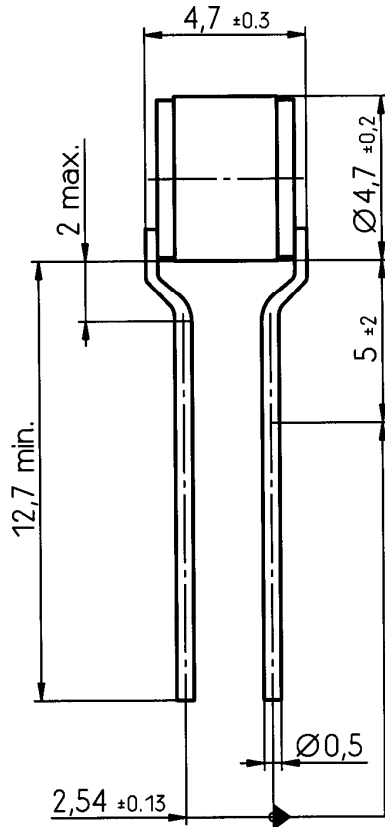
**Electrical specifications**

|  |   |        |
|--|---|--------|
| DC spark-over voltage <sup>1) 2)</sup>                                       | 300<br>± 15   | V<br>% |
| Impulse spark-over voltage   |   |        |
| at 100 V/μs - for 99% of measured values<br>- typical values of distribution | < 500<br>< 450  | V<br>V |
| at 1 kV/μs - for 99% of measured values<br>- typical values of distribution  | < 600<br>< 550  | V<br>V |
| Service life   |   |        |
| 10 operations      8/20 μs   | 2.5   | kA     |
| 1 operation        8/20 μs   | 5   | kA     |
| Insulation resistance at 100 V <sub>dc</sub>                                 | > 1   | GΩ     |
| Capacitance at 1 MHz   | < 1   | pF     |
| Arc voltage at 1 A   | ~ 11  | V      |
| Glow to arc transition current   | < 0.5   | A      |
| Glow voltage   | ~ 130   | V      |
| Weight   | ~ 0.3   | g      |
| Operation and storage temperature  | -40 ... +90   | °C     |
| Climatic category (IEC 60068-1)  | 40/ 90/ 21  |        |
| Marking, red positive  | <b>EPCOSES 300 YY O</b><br>ES    - Series<br>300   - Nominal voltage<br>YY   - Year of production<br>O    - Non radioactive |        |

<sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859

<sup>2)</sup> In ionized mode

Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

**Dimensional drawing**


wires tin-plated

*Not to scale*

*Dimensions in mm*

*Non controlled document*

**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 lead contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

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