



## Surge arrester

2-electrode arrester

**Series/Type:** ES350XN  
**Ordering code:** B88069X4951xxxx <sup>a)</sup>  
**Version/Date:** Issue 02 / 2007-01-12

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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**

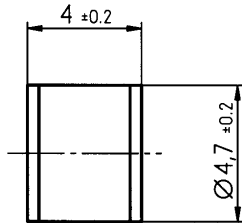
|  |   |        |
|--|---|--------|
| DC spark-over voltage <sup>1) 2)</sup>       | 350<br>± 15   | V<br>% |
| Impulse spark-over voltage                   |   |        |
| at 100 V/μs - for 99 % of measured values    | < 530   | V      |
| - typical values of distribution             | < 450   | V      |
| at 1 kV/μs - for 99 % of measured values     | < 600   | V      |
| - typical values of distribution             | < 530   | 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                           | ~ 15  | 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 350 YY O</b><br>ES    - Series<br>350   - Nominal voltage<br>YY   - Year of production<br>O    - Non radioactive |        |

<sup>a)</sup> xxxx = C253 (2500 pcs in container)  
        = T103 (1000 pcs on tape and reel)

<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

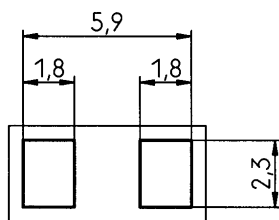
**Dimensional drawing**


tin-plated

*Not to scale*

*Dimensions in mm*

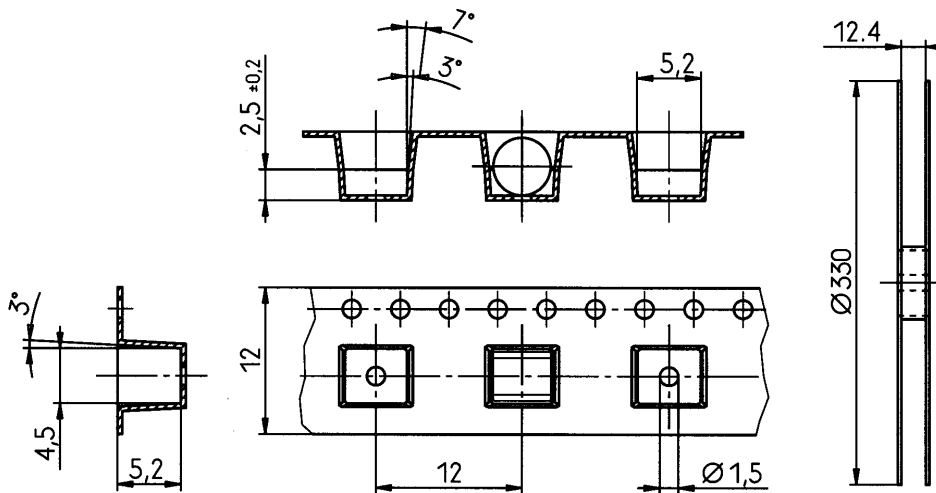
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recommended pad outline

**Packing advice**

*T103 = 1000 pcs on tape and reel*


**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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