

# Surge arrester

2-electrode arrester

Series/Type: Ordering code: ES350XN

B88069X4951xxxx a) Version/Date: Issue 02 / 2007-01-12

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| Surge arrester       | B88069X4951xxxx <sup>a)</sup> |  |
|----------------------|-------------------------------|--|
| 2-electrode arrester | ES350XN                       |  |

| Features   | Applications                      |
|--|-----------------------------------|
| <ul> <li>Extremely small size</li> </ul>         | ■ Modem                           |
| <ul> <li>Very fast response time</li> </ul>      | <ul> <li>XDSL-splitter</li> </ul> |
| <ul> <li>Stable performance over life</li> </ul> | ■ Tuner                           |
| <ul> <li>Extremely low capacitance</li> </ul>    |                                   |
| <ul> <li>High insulation resistance</li> </ul>   |                                   |
| <ul> <li>RoHS-compatible</li> </ul>              |                                   |

### **Electrical specifications**

| DC spark-over voltage 1) 2)  | 350<br>± 15   | V<br>%      |
|--|---|-------------|
| Impulse spark-over voltage<br>at 100 V/µs - for 99% of measured values<br>- typical values of distribution | < 530<br>< 450  | V           |
| at 1 kV/µs - for 99% of measured values - typical values of distribution                                   | < 600<br>< 530  | 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   | $G\Omega$   |
| Capacitance at 1 MHz   | < 1   | pF          |
| Arc voltage at 1 A Glow to arc transition current Glow voltage   | ~ 15<br>< 0.5<br>~ 130  | V<br>A<br>V |
| Weight   | ~ 0.3   | g           |
| Operation and storage temperature  | -40 +90   | °C          |
| Climatic category (IEC 60068-1)  | 40/ 90/ 21  | <u>.</u>    |
| Marking, red positive  | EPCOS ES 350 YY O  ES - Series  350 - Nominal voltage  YY - Year of production  O - Non radioactive |             |

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

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

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

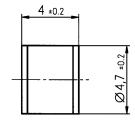
<sup>2)</sup> In ionized mode

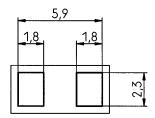


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#### **Dimensional drawing**





tin-plated

Not to scale

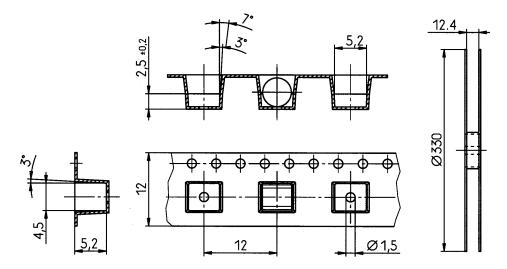
Dimensions in mm

Non controlled document

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

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