



## Surge arrester

### 2-electrode arrester

|                       |                        |
|-----------------------|------------------------|
| <b>Series/Type:</b>   | <b>ES350XN</b>         |
| <b>Ordering code:</b> | <b>B88069X4951****</b> |
| <b>Date:</b>          | <b>2019-07-22</b>      |
| <b>Version:</b>       | <b>03</b>              |

## Surge arrester

B88069X4951\*\*\*\*

## 2-electrode arrester

ES350XN

### Features

- Very small size
- Very fast response time
- Stable performance over life
- Very low capacitance
- High insulation resistance
- RoHS-compatible

### Applications

- Modem
- XDSL-splitter
- Tuner

### Electrical specifications

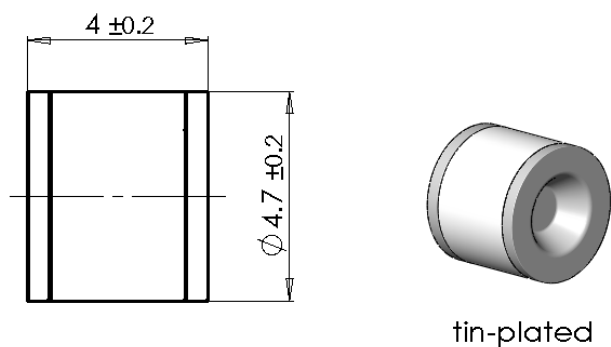
|                                              |                                                                                                                    |                                                                                       |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| DC spark-over voltage <sup>1) 2)</sup>       | 350                                                                                                                | V                                                                                     |
| Tolerance                                    | ±15                                                                                                                | %                                                                                     |
| Min.                                         | 298                                                                                                                | V                                                                                     |
| Max.                                         | 402                                                                                                                | V                                                                                     |
| 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 ... +125                                                                                                       | °C                                                                                    |
| Climatic category (IEC 60068-1)              | 40/125/21                                                                                                          |                                                                                       |
| Marking, red positive                        | <b>EPCOS ES 350 YY O</b><br>ES - Series<br>350 - Nominal voltage<br>YY - Year of production<br>O - Non radioactive |                                                                                       |
| Certification                                | UL 497B (E163070)                                                                                                  |  |

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

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

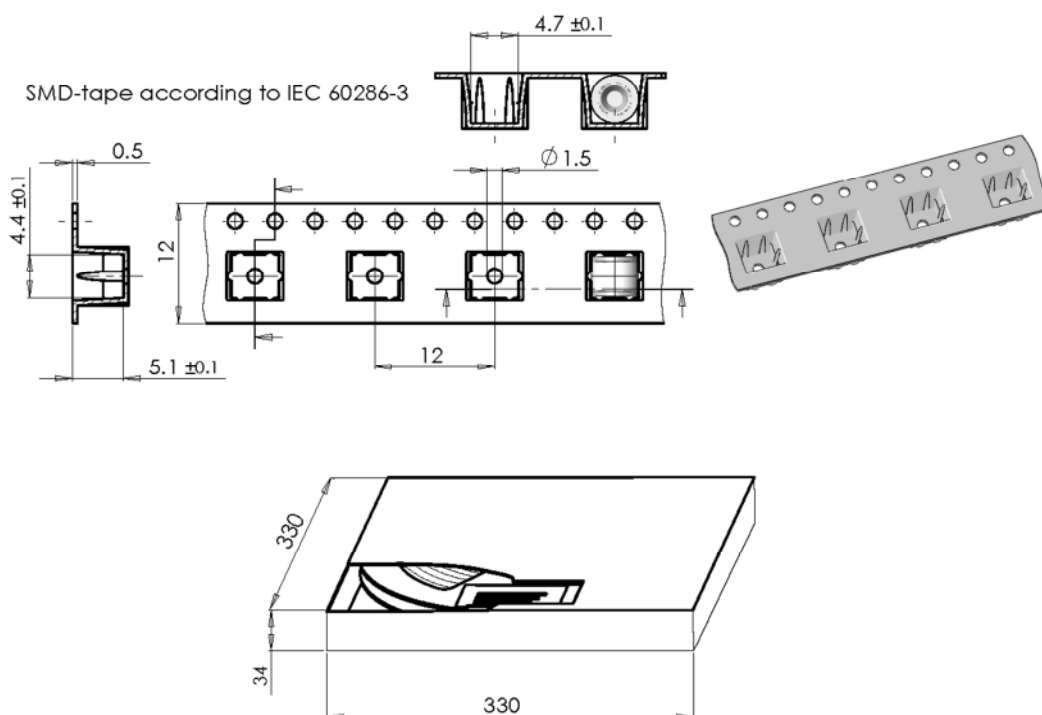
Terms in accordance with ITU-T Rec. K. 12; IEC 61643-311.

# Dimensional drawing in mm

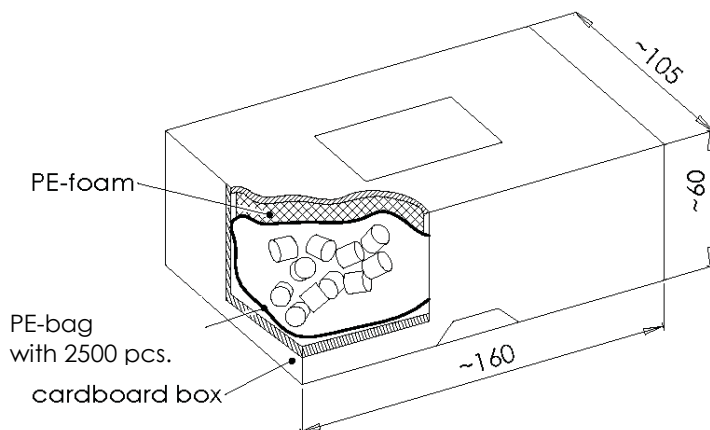


## Ordering codes and packing advices

B88069X4951T103 = 1000 pcs. on SMD-tape & reel



**B88069X4951C253** = 2500 pcs. on container



### Cautions and warnings

- Do not operate surge arresters in power supply networks, whose maximum operating voltage exceeds the minimum spark-over voltage of the surge arresters.
- Surge arresters may become hot in the event of longer periods of current stress (burn risk). In the event of overload the connectors may fail or the component may be destroyed.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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## Important notes

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