



## **Surge arrester**

2-electrode arrester

**Series/Type:** A81-A600XG  
**Ordering code:** B88069X2990T502  
**Version/Date:** Issue 03 / 2009-11-12

**Features**

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

**Applications**

- Line protection
- Consumer electronics

**Electrical specifications**

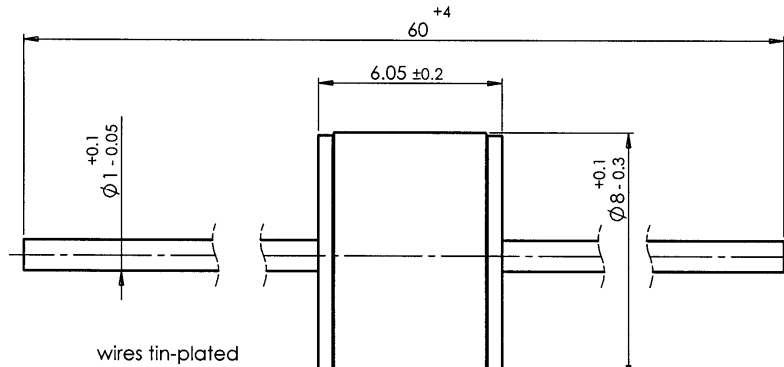
|                                                             |                                                                                                              |        |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------|
| DC spark-over voltage <sup>1) 2)</sup>                      | 600<br>± 20                                                                                                  | V<br>% |
| Impulse spark-over voltage                                  |                                                                                                              |        |
| at 100 V/μs   - for 99 % of measured values                 | < 1100                                                                                                       | V      |
| - typical values of distribution                            | < 950                                                                                                        | V      |
| at 1 kV/μs    - for 99 % of measured values                 | < 1400                                                                                                       | V      |
| - typical values of distribution                            | < 1100                                                                                                       | V      |
| Service life                                                |                                                                                                              |        |
| 10 operations                      50 Hz, 1 s               | 20                                                                                                           | A      |
| 1 operation                        50 Hz, 0.18 s (9 cycles) | 100                                                                                                          | A      |
| 10 operations [5× (+) & 5× (-)] 8/20 μs                     | 20                                                                                                           | kA     |
| 1 operation                        8/20 μs                  | 25                                                                                                           | kA     |
| 1 operation                        10/350 μs                | 2.5                                                                                                          | kA     |
| Insulation resistance at 100 V <sub>dc</sub>                | > 10                                                                                                         | GΩ     |
| Capacitance at 1 MHz                                        | < 1.5                                                                                                        | pF     |
| Arc voltage at 1 A                                          | ~ 10                                                                                                         | V      |
| Glow to arc transition current                              | ~ 0.5                                                                                                        | A      |
| Glow voltage                                                | ~ 60                                                                                                         | V      |
| Weight                                                      | ~ 1.5                                                                                                        | g      |
| Operation and storage temperature                           | -40 ... +90                                                                                                  | °C     |
| Climatic category (IEC 60068-1)                             | 40/ 90/ 21                                                                                                   |        |
| Marking, blue positive                                      | <b>EPCOS 600 YY O</b><br>600    - 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

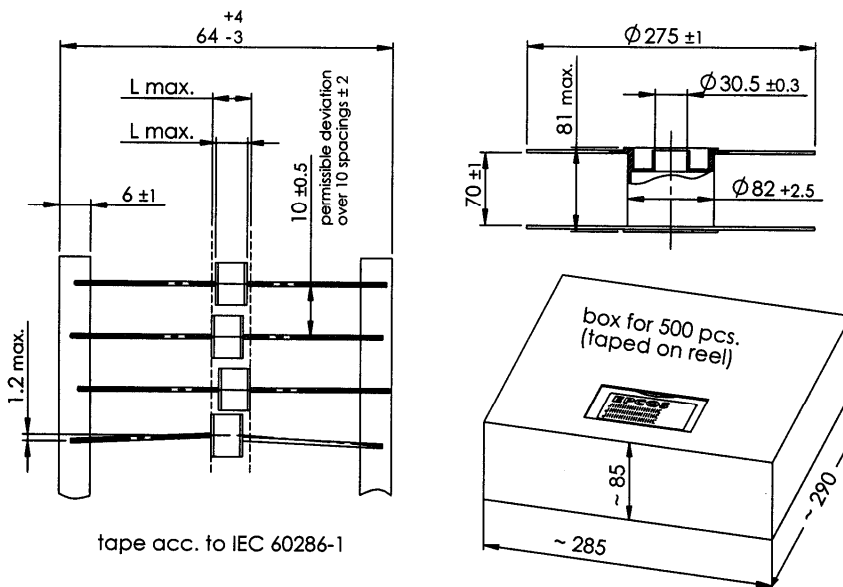
Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

### Dimensional drawing in mm



### Ordering code and packing advice

**B88069X2990T502** = 500 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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