



## Surge arrester

2-electrode arrester

**Series/Type:** G31-A200X  
**Ordering code:** B88069X8801\*\*\*\*  
Version/Date: Issue 04 / 2012-02-15

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**Features**

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

**Applications**

- ESD protection
- Applications with limited space

**Electrical specifications**

|  |                        |        |
|--|------------------------|--------|
| DC spark-over voltage <sup>1) 2)</sup>                       | 200<br>± 20            | V<br>% |
| Impulse spark-over voltage                                   |                        |        |
| at 100 V/μs - for 99% of measured values                     | < 750                  | V      |
| - typical values of distribution                             | < 500                  | V      |
| at 1 kV/μs - for 99% of measured values                      | < 950                  | V      |
| - typical values of distribution                             | < 700                  | V      |
| Service life <sup>3)</sup>                                   |                        |        |
| 300 operations                                   8/20 μs     | 100                    | A      |
| 10 operations [5× (+) & 5× (-)]           8/20 μs            | 1                      | kA     |
| 1 operation                                     8/20 μs      | 2                      | kA     |
| 200 operations (discharge)               1500 pF; 10 kV; 0 Ω | 1.5 × 10 <sup>-5</sup> | As     |
| Insulation resistance at 100 V <sub>DC</sub>                 | > 1                    | GΩ     |
| Capacitance at 1 MHz   | < 0.5                  | pF     |
| Arc voltage at 1 A   | ~ 10                   | V      |
| Glow to arc transition current                               | < 1.0                  | A      |
| Glow voltage   | ~ 60                   | V      |
| Weight   | ~ 0.2                  | g      |
| Operation and storage temperature                            | -40 ... +125           | °C     |
| Climatic category (IEC 60068-1)                              | 40/ 125/ 21            |        |
| Marking  | without                |        |

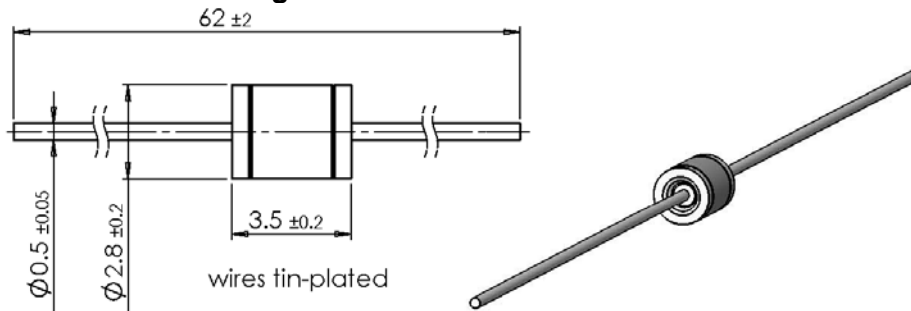
<sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859

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

<sup>3)</sup> Tests according to ITU-T Rec. K. 12 and UL 497B

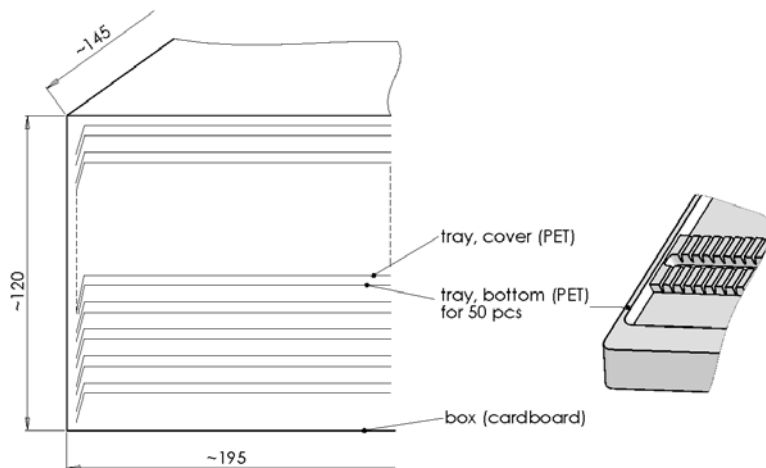
Terms and current waveforms in accordance with ITU-T Rec. K. 12; IEC 61663-2, IEC 61643-21 and IEC 61643-311.

Dimensional drawing in mm

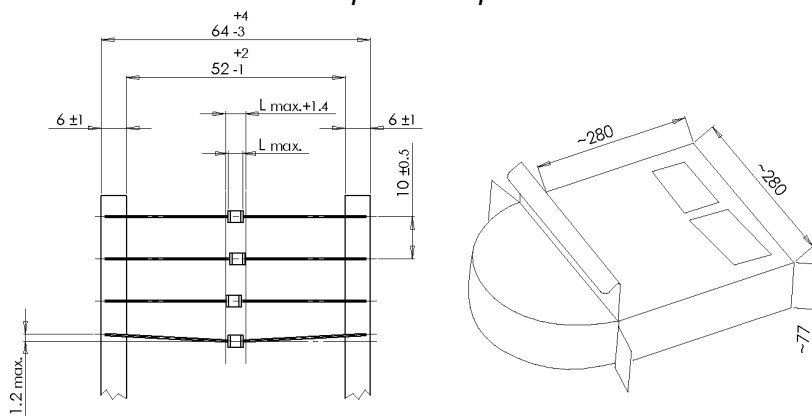


Ordering code and packing advices

B88069X8801B502 = 500 pcs. on trays



B88069X8801T103 = 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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