



Surge arrester

2-electrode arrester

Series/Type: S30-A300XS
Ordering code: B88069X6891T203
Version/Date: Issue 05 / 2013-09-17

Features

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

Applications

- PCI cards
- Modems
- Splitter
- Line cards
- Applications with limited space

Electrical specifications

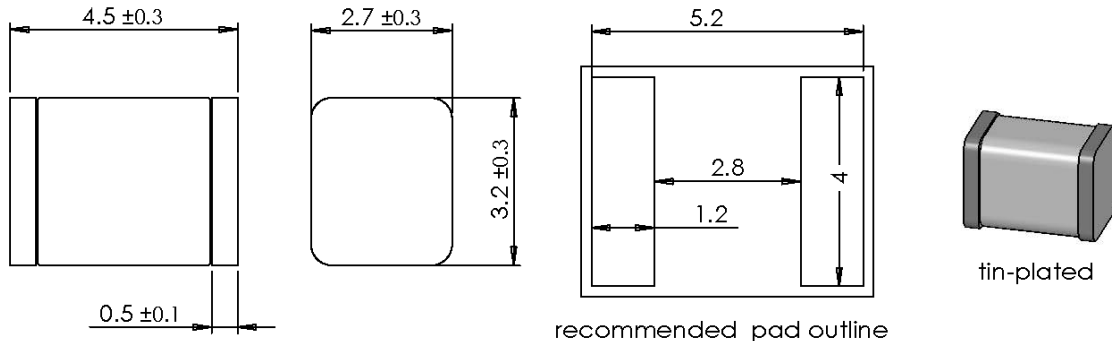
| | | | |
|--|--|--|--------|
| DC spark-over voltage ^{1) 2)} | | 300 ± 30 | V % |
| Impulse spark-over voltage | | | |
| at 100 V/μs | - for 99% of measured values - typical values of distribution | < 580 < 500 | V V |
| at 10/700 μs, 4 kV | - for 99% of measured values | < 600 | V |
| at 1 kV/μs | - for 99% of measured values - typical values of distribution | < 650 < 550 | V V |
| Service life ³⁾ | | | |
| 300 operations | 8/20 μs | 100 | A |
| 10 operations [5x (+) & 5x (-)] | 8/20 μs | 1 | kA |
| 2 operations [1x (+) & 1x (-)] | 8/20 μs | 2 | kA |
| 100 operations [50x (+) & 50x (-)] | 10/1000 μs | 10 | A |
| Insulation resistance at 100 V _{DC} | | > 1 | GΩ |
| Capacitance at 1 MHz | | < 0.8 | pF |
| Arc voltage at 1 A | | ~ 20 | V |
| Glow to arc transition current | | < 0.3 | A |
| Glow voltage | | ~ 150 | V |
| Weight | | ~ 0.2 | g |
| Operation and storage temperature | | -40 ... +90 | °C |
| Climatic category (IEC 60068-1) | | 40/ 90/ 21 | |
| Marking, black positive | | ▲IY I - Nominal voltage (I ≙ 300 V) Y - Year of production (last digit) | |

¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859

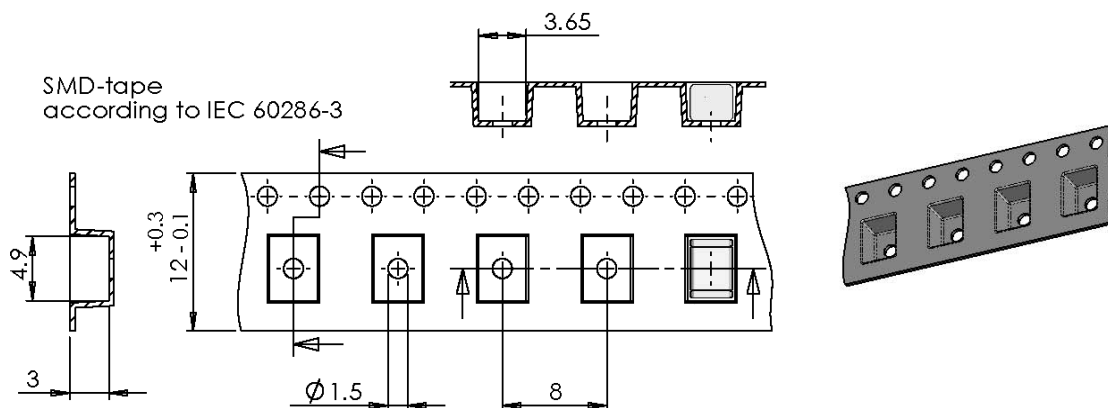
²⁾ In ionized mode

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

Terms and current waveforms in accordance with: ITU-T Rec. K. 12; IEC 61643-21, IEC 61643-311 and IEC61663-2.

Dimensional drawing in mm

Ordering code and packing advice

B88069X6891T203 = 2000 pcs. on SMD-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 the event of overload, the lead contacts may fail or the component may be destroyed.
- Surge arresters must be handled with care and must not be dropped.
- Damaged surge arresters must not be re-used.

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