



Surge arrester

2-electrode arrester

Series/Type: N81-A500XG
Ordering code: B88069X4860T502
Version/Date: Issue 03 / 2013-08-29

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Features

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

Applications

- Consumer electronic

Electrical specifications

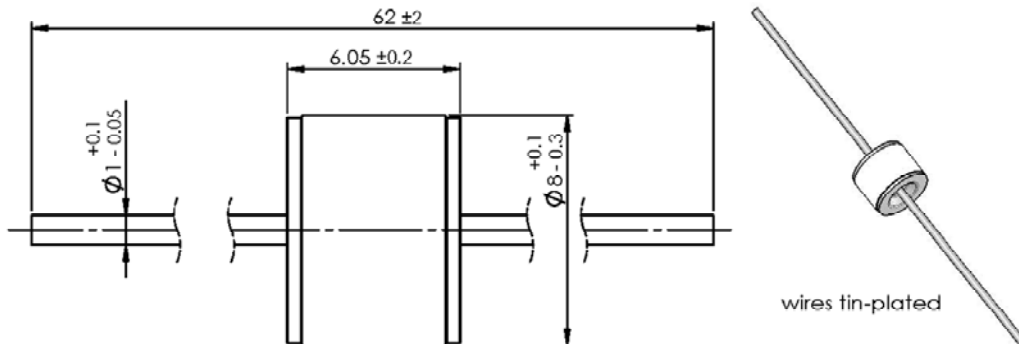
| | | |
|---|--|--------|
| DC spark-over voltage ^{1) 2)} | 500 ± 20 | V % |
| Impulse spark-over voltage | | |
| at 100 V/μs - for 99% of measured values | < 900 | V |
| - typical values of distribution | < 750 | V |
| at 1 kV/μs - for 99% of measured values | < 1100 | V |
| - typical values of distribution | < 900 | V |
| Service life | | |
| 10 operations 50 Hz, 1 s | 10 | A |
| 1 operation 50 Hz, 0.18 s (9 cycles) | 65 | A |
| 10 operations 8/20 μs | 10 | kA |
| 1 operation 8/20 μs | 12 | kA |
| 1 operation 10/350 μs | 1 | kA |
| Insulation resistance at 50 V _{DC} | > 10 | GΩ |
| Capacitance at 1 MHz | < 1.5 | pF |
| Arc voltage at 1 A | ~ 15 | V |
| Glow to arc transition current | ~ 0.8 | 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, red negative | EPCOS 500 YY O 500 - Nominal voltage YY - Year of production O - Non radioactive | |

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

²⁾ In ionized mode

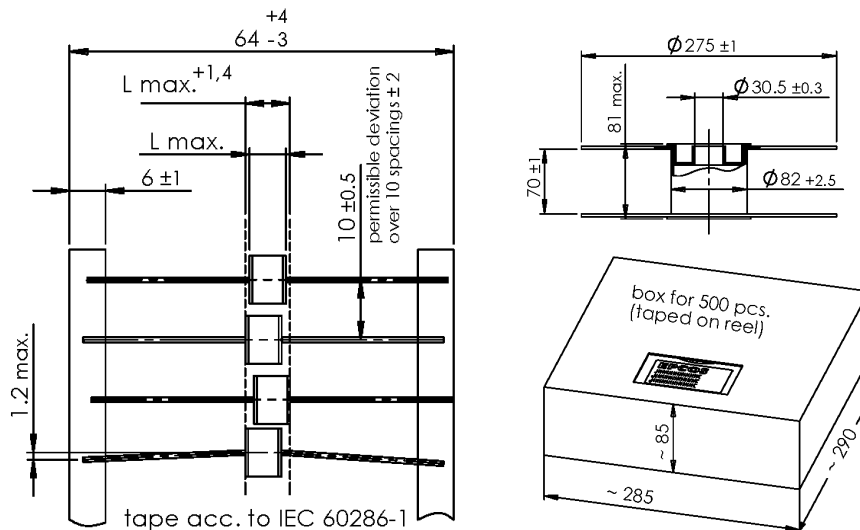
Terms and current waveforms in accordance with: ITU-T Rec. K. 12 ; IEC 61663-2 and IEC 61643-311.

Dimensional drawing in mm



Ordering codes and packing advices

B88069X4860T502 = 500 pcs. on tape & 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.
- Surge arresters must be handled with care and must not be dropped.
- Damaged surge arresters must not be re-used.

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