# Surge arrester

## 2-electrode arrester

| | |
|---|---|
| **Series/Type:** | **A81-A75X** |
| **Ordering code:** | **B88069X3881****** |
| Date: | 2019-06-27 |
| Version: | 05 |

### Features

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

### Applications

- Tower mounted amplifier
- Consumer electronics
- Alarm systems

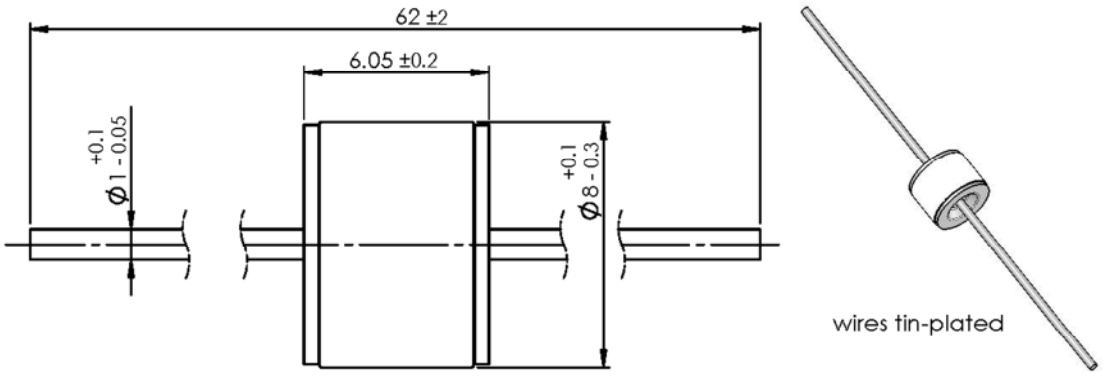
### Electrical specifications

| | | | |
|---|---|---|---|
| DC spark-over voltage [1) 2)] | | 75 | V |
| Tolerance | | ±20 | % |
| Min. | | 60 | V |
| Max. | | 90 | V |
| Impulse spark-over voltage | | | |
| at 100 V/µs | - for 99% of measured values | < 350 | V |
| | - typical values of distribution | < 300 | V |
| at 1 kV/µs | - for 99% of measured values | < 650 | V |
| | - typical values of distribution | < 600 | V |
| Service life | | | |
| 10 operations | 50 Hz, 1 s | 20 | 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 50 $V_{DC}$ | | > 10 | GΩ |
| Capacitance at 1 MHz | | < 1.5 | pF |
| Arc voltage at 1 A | | ~ 15 | V |
| Glow to arc transition current | | < 0.6 | A |
| Glow voltage | | ~ 60 | V |
| Weight | | ~ 1.5 | g |
| Operation and storage temperature | | –40 ... +125 | °C |
| Climatic category (IEC 60068-1) | | 40/125/21 | |
| Marking, blue negative | | **EPCOS 75 YY O**<br>75 - Nominal voltage<br>YY - Year of production<br>O - Non radioactive | |
| Certification | | UL 497B (E163070) | |

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In ionized mode

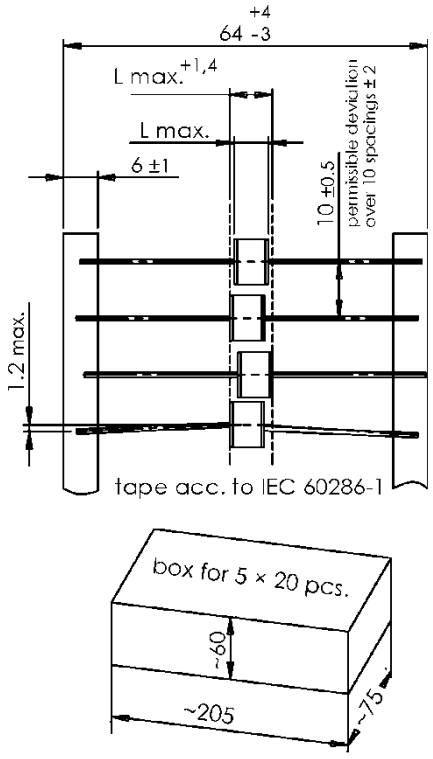
Terms in accordance with ITU-T Rec. K.12 and IEC 61643-311.

## Dimensional drawing in mm

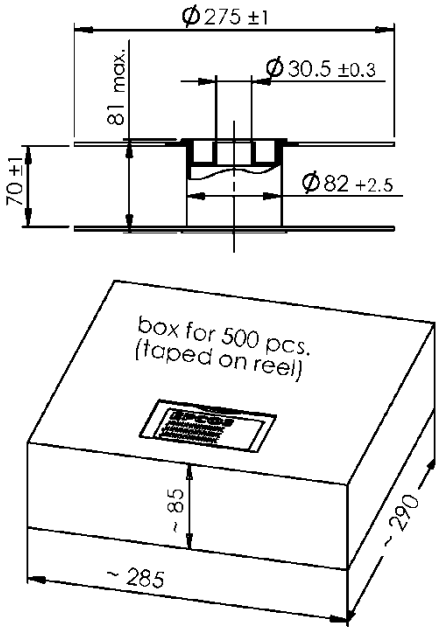



## Ordering codes and packing advices

*B88069X3881**S102** = 100 pcs. on 5 taped stripes*

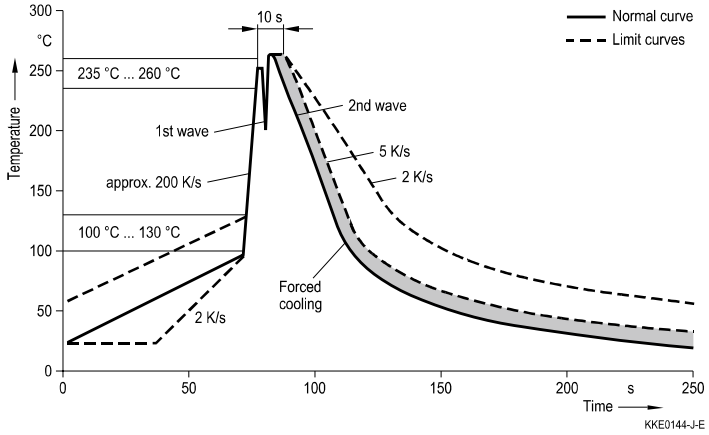



*B88069X3881**T502** = 500 pcs. on tape & reel*



## Soldering parameter

Wave soldering




| Wave profile features | Pb-free assembly |
|---|---|
| Solder | Sn 95.5 / Ag 3.8 / Cu 0.7 |
| Solder bath temperature | 263 (±3) °C |
| Dwell time | < 3 s |

Soldering profile applied to a single soldering process.

## 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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