

Surge arrester

2-electrode arrester

| Series/Type: Ordering code: | EF1500X B88069X4301**** |
|--------------------------------|----------------------------|
| Version/Date: | 2018-11-20 |
| Version: | 04 |

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EF1500X

B88069X4301****

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2-electrode arrester

Features

- High follow current capability
- Very fast response time
- Stable performance over life
- Very low capacitance
- High insulation resistance
- RoHS-compatible

Applications

- Application with high follow current
- Power supply
- Consumer electronics
- AC power line devices

| Electrical specifications | | |
|--|---|------------------|
| DC spark-over voltage ^{1) 2)} | 1500 | V |
| Tolerance Min. | ±20 1200 | % V |
| Min. Max. | 1800 | VV |
| | 1860 | V |
| Impulse spark-over voltage | 1000 | V |
| at 100 V/µs - for 99% of measured values | < 1800 < 1700 | VV |
| - typical values of distribution | | |
| at 1 kV/µs - for 99% of measured values | < 2000 | V |
| - typical values of distribution | < 1800 | V |
| Service life | | |
| 10 operations 50 Hz, 1 s | 5 | A |
| 1 operation 50 Hz, 0.18 s (9 cycles) | 35 | A |
| 10 operations 8/20 μs | 10 | kA |
| 1 operation 8/20 μs | 10 | kA |
| Max. follow current during one voltage half cycle at 50 Hz $^{3)}$ | 200 | А |
| Insulation resistance at 100 V_{DC} | > 10 | GΩ |
| Capacitance at 1 MHz | < 1.5 | pF |
| Arc voltage at 1 A | ~ 30 | V |
| Glow to arc transition current | < 0.3 | A |
| Glow voltage | ~ 90 | V |
| Weight | ~ 1.5 | g |
| Operation and storage temperature | -40 +125 | °C |
| Climatic category (IEC 60068-1) | 40/125/21 | |
| Marking, red positive | EPCOS EF 1500 YY OEF- Series1500- Nominal voltageYY- Year of productionO- Non radioactive | |
| Certifications | UL 1449 (E319264) | c SN ° us |

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

²⁾ In ionized mode

³⁾ Follow current has to be limited by an appropriate varistor in series.

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

PPD AB PD / PPD AB PM

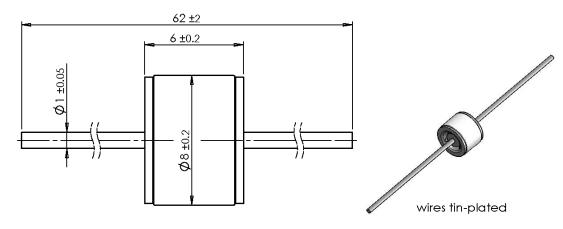


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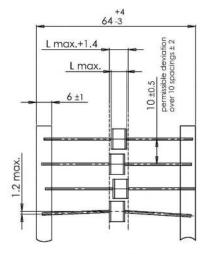
Dimensional drawing in mm



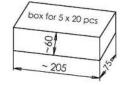
Ordering codes and packing advices

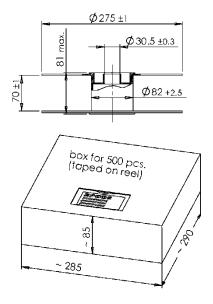
B88069X4301**S102** = 100 pcs. on 5 taped stripes

B88069X4301**T502** = 500 pcs. on tape and reel



tape acc. to IEC 60286-1





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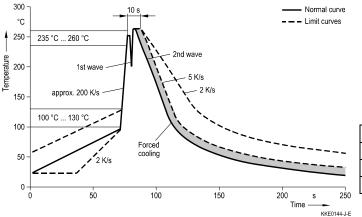
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Soldering parameter

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.
- The follow current must be limited (see page 2) so that the arrester can be properly extinguished when the surge has decayed. The arrester might otherwise heat up and ignite adjacent components.
- 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.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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