

Surge arrester

2-electrode arrester

Series/Type: Ordering code: **EF1500X**

B88069X4301****

Version/Date: 2018-11-20

Version: 04

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2-electrode arrester EF1500X

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 10	
at 100 V/µs - for 99% of measured values - typical values of distribution 2 1700 2000 2000 2000 2000 2000 2000 20	V % V
at 100 V/µs - for 99% of measured values - typical values of distribution 2 1700 2000 2000 2000 2000 2000 2000 20	
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Insulation resistance at 100 V_{DC} > 10 Capacitance at 1 MHz < 1.5 Arc voltage at 1 A Glow to arc transition current < 0.3 Glow voltage	kA
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Marking, red positive EPCOS EF 1500 YY C EF - Series 1500 - Nominal voltage	°C
EF - Series 1500 - Nominal voltage	
O - Non radioactive	
Certifications UL 1449 (E319264)	c AL °us

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

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

²⁾ In ionized mode

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

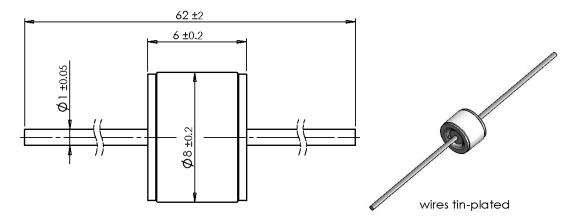


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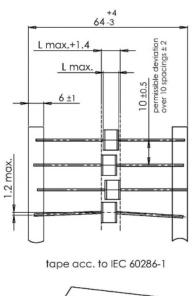
EF1500X

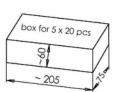
Dimensional drawing in mm

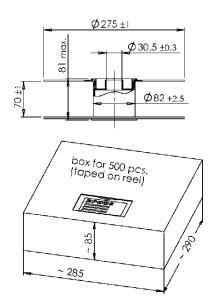


Ordering codes and packing advices

B88069X4301**S102** = 100 pcs. on 5 taped stripes B88069X4301**T502** = 500 pcs. on tape and reel







PPD AB PD / PPD AB PM



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Soldering parameter

Wave soldering 300 Normal curve °C - Limit curves 250 235 °C ... 260 °C 200 1st wave approx. 200 K/s 150 100 °C ... 130 °C 100 Forced 50 100 150 KKE0144-.I-E

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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Important notes

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Release 2018-10