Surge arrester

2-electrode arrester

Series/Type: A71-H14XG
Ordering code: B88069X3500T502
Date: 2019-08-19
Version: 05
Surge arrester

B88069X3500T502

2-electrode arrester

A71-H14XG

**Features**
- Standard size
- Fast response time
- Stable performance over life
- Low capacitance
- High insulation resistance
- RoHS-compatible

**Applications**
- Power supply
- Consumer electronics
- White goods

## Electrical specifications

### DC spark-over voltage

<table>
<thead>
<tr>
<th>Tolerance</th>
<th>Min.</th>
<th>Max.</th>
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<tr>
<td>±20%</td>
<td>1120 V</td>
<td>1680 V</td>
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### Impulse spark-over voltage

- at 100 V/µs - for 99% of measured values: < 2100 V
- at 1 kV/µs - for 99% of measured values: < 2200 V
- typical values of distribution: < 2100 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, 15 kA

### Insulation resistance at 100 V<sub>DC</sub>

> 10 GΩ

### Capacitance at 1 MHz

< 1 pF

### Arc voltage at 1 A

- Glow to arc transition current
  - < 1 A
- Glow voltage
  - ~ 160 V

### Weight

~ 2 g

### Operation and storage temperature

-40 ... +125 °C

### Climatic category (IEC 60068-1)

40/125/21

### Marking, green positive

**EPCOS**

1400 YY O

1400 - Nominal voltage
YY - Year of production
O - Non radioactive

### Certifications

UL 1449 (E319264)

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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

B88069X3500T502 = 500 pcs. on tape & reel
Soldering parameter

Wave soldering

![Wave soldering graph]

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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