

Surge arrester

2-electrode arrester

S30-A420XS

Series/Type: Ordering code: B88069X6311T203

Version/Date: Issue 02 / 2013-09-17



Surge arrester B88069X6311T203

2-electrode arrester S30-A420XS

Features

- Extremely small size
- Very fast response time
- Stable performance over life
- Very low capacitance
- High insulation resistance
- Excellent SMD handling
- RoHS-compatible

Applications

- PCI cards
- Modem
- Splitter
- Line cards
- Applications with limited space

Electrical specifications

| DC spark-over voltage 1) 2) | | | 420 | V |
|---|--|---------|--|-----------|
| | | | ± 25 | % |
| Impulse spark-over vo | oltage | | | |
| at 100 V/µs - for 99% of measured values | | | < 650 | V |
| | typical values of distri | bution | < 550 | V |
| at 1 kV/µs | at 1 kV/µs - for 99% of measured values - typical values of distribution | | < 750 | V |
| • | | | < 600 | V |
| Service life 3) 4) | | | | |
| 300 operations | | 8/20 µs | 100 | Α |
| 10 operations [5x (+) & 5x (-)] | | 8/20 µs | 1 | kA |
| 100 operations [50x (+) & 50x (-)] 10/1000 μs | | | 10 | Α |
| Insulation resistance at 100 V _{DC} | | | > 1 | $G\Omega$ |
| Capacitance at 1 MHz | | | < 0.8 | pF |
| Arc voltage at 1 A | | | ~ 20 | V |
| Glow to arc transition current | | | < 0.3 | Α |
| Glow voltage | | | ~ 150 | V |
| Weight | | | ~ 0.2 | g |
| Operation and storage temperature | | | -40 +90 | °C |
| Climatic category (IEC 60068-1) | | | 40/ 90/ 21 | |
| Marking, black positive | | | <u>ALY</u> | |
| | | | L - Nominal voltage (L ≜ 420 V) Y - Year of production (last digit) | |

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

DC spark-over voltage 420 V ±30%

Impulse spark-over voltage at 100 V/µs < 850 V

Impulse spark-over voltage at 1 kV/µs < 1000 V

Insulation resistance IR > 10⁸ Ohm

Terms and current waveforms in accordance with: ITU-T Rec. K. 12; IEC 61643-21, IEC 61643-311 and IEC 61663-2.

PPD AB PD / PPD AB PM Issue 02 / 2013-09-17

²⁾ In ionized mode

³⁾ Tests according to ITU-T Rec. K. 12 and UL 497B

Data after Service life:

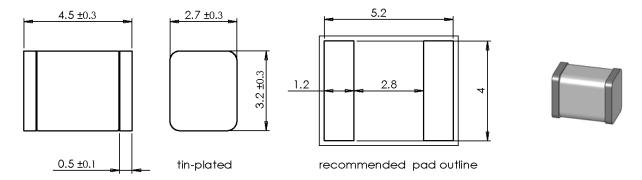


Surge arrester B88069X6311T203

2-electrode arrester

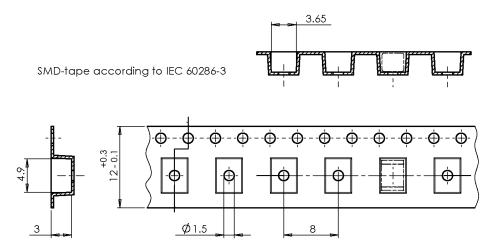
S30-A420XS

Dimensional drawing in mm



Ordering code and packing advice

B88069X6311T203 = 2000 pcs. on SMD-tape and 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.

Display of ordering codes for EPCOS products

The ordering code for one and the same EPCOS product can be represented differently in data sheets, data books, other publications, on the EPCOS website, or in order-related documents such as shipping notes, order confirmations and product labels. The varying representations of the ordering codes are due to different processes employed and do not affect the specifications of the respective products. Detailed information can be found on the Internet under www.epcos.com/orderingcodes.

PPD AB PD / PPD AB PM Issue 02 / 2013-09-17



Important notes

The following applies to all products named in this publication:

- 1. Some parts of this publication contain statements about the suitability of our products for certain areas of application. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application. As a rule, EPCOS is either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether an EPCOS product with the properties described in the product specification is suitable for use in a particular customer application.
- 2. We also point out that in individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.
- 3. The warnings, cautions and product-specific notes must be observed.
- 4. In order to satisfy certain technical requirements, some of the products described in this publication may contain substances subject to restrictions in certain jurisdictions (e.g. because they are classed as hazardous). Useful information on this will be found in our Material Data Sheets on the Internet (www.epcos.com/material). Should you have any more detailed questions, please contact our sales offices.
- 5. We constantly strive to improve our products. Consequently, the products described in this publication may change from time to time. The same is true of the corresponding product specifications. Please check therefore to what extent product descriptions and specifications contained in this publication are still applicable before or when you place an order. We also reserve the right to discontinue production and delivery of products. Consequently, we cannot guarantee that all products named in this publication will always be available. The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.
- 6. Unless otherwise agreed in individual contracts, all orders are subject to the current version of the "General Terms of Delivery for Products and Services in the Electrical Industry" published by the German Electrical and Electronics Industry Association (ZVEI).
- 7. The trade names EPCOS, BAOKE, Alu-X, CeraDiode, CeraLink, CeraPlas, CSMP, CSSP, CTVS, DeltaCap, DigiSiMic, DSSP, FilterCap, FormFit, MiniBlue, MiniCell, MKD, MKK, MLSC, MotorCap, PCC, PhaseCap, PhaseCube, PhaseMod, PhiCap, SIFERRIT, SIFI, SIKOREL, SilverCap, SIMDAD, SiMic, SIMID, SineFormer, SIOV, SIP5D, SIP5K, ThermoFuse, WindCap are trademarks registered or pending in Europe and in other countries. Further information will be found on the Internet at www.epcos.com/trademarks.