

# Surge arrester

2-electrode arrester

Series/Type: EF270X

Ordering code: B88069X4131\*\*\*\*

Version/Date: Issue 04 / 2013-09-16

© EPCOS AG 2015. Reproduction, publication and dissemination of this publication, enclosures hereto and the information contained therein without EPCOS' prior express consent is prohibited.

EPCOS AG is a TDK Group Company.



Surge arrester B88069X4131\*\*\*\*

### 2-electrode arrester EF270X

#### **Features**

- Standard size
- 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

### **Electrical specifications**

DC spark-over voltage 1) 2)		230 338	V
Impulse spark-over ve	oltage		
at 100 V/µs	<ul><li>for 99% of measured values</li><li>typical values of distribution</li></ul>	< 500 < 450	V
at 1 kV/μs	<ul><li>for 99% of measured values</li><li>typical values of distribution</li></ul>	< 550 < 500	V
Service life			
10 operations	s 50 Hz, 1 s	5	Α
1 operation	50 Hz, 0.18 s (9 cycles)	65	Α
10 operation	s 8/20 µs	5	kA
1 operation	8/20 µs	10	kA
Max. follow current during one voltage half cycle at 50 Hz 3)		200	Α
Insulation resistance at 100 V <sub>DC</sub>		> 10	$G\Omega$
Capacitance at 1 MHz		< 1.5	pF
Arc voltage at 1 A Glow to arc transition current Glow voltage		~ 22 < 0.5 ~ 140	V A V
Weight		~ 1.5	g
Operation and storage temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, red positive		EPCOSEF 270 YY O  EF - Series 270 - Nominal voltage YY - Year of production O - Non radioactive	

<sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859

Terminology in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

PPD AB PD / PPD AB PM Issue 04 / 2013-09-16

<sup>2)</sup> In ionized mode

<sup>&</sup>lt;sup>3)</sup> Follow current has to be limited by an appropriate varistor in series.

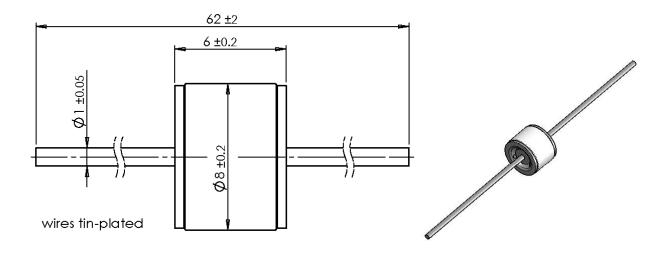


Surge arrester B88069X4131\*\*\*\*

### 2-electrode arrester

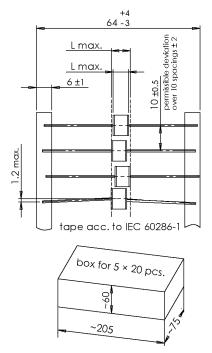
**EF270X** 

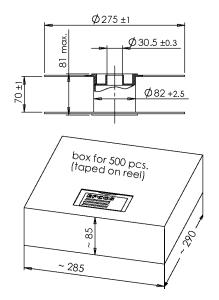
### Dimensional drawing in mm



# Ordering codes and packing advices

B88069X4131**S102** = 100 pcs. on 5 taped stripes B88069X4131**T502** = 500 pcs. on tape and reel





PPD AB PD / PPD AB PM Issue 04 / 2013-09-16



Surge arrester B88069X4131\*\*\*\*

2-electrode arrester EF270X

#### 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.

#### **Cautions and warnings**

- Surge arresters must not be operated directly in power supply networks.
- The follow current must be limited 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 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.

#### 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.

# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Gas Discharge Tubes - GDTs / Gas Plasma Arrestors category:

Click to view products by EPCOS manufacturer:

Other Similar products are found below:

M51-A90X PMT1023004 PMT1040004 CG2800 GTCR37-231M-R10 WPGT-2N145B6L WPGT-2N230B6L WPGT-2N470B6L WPGT-2RM230A6L WPGT-2RM350A6L WPGT-2RM70A6L WPGT-2RM90A6L WPGT-2S145 WPGT-2S350 WPGT-2S470 WPGT-3R350CF WPGT-3R350G1 WPGT-3R75G1 WPGT-3R470G1 WPGT-3R250C WPGT-3R230G1 WPGT-2S230 WPGT-2RM145A6L WPGT-2R1000B8L WPGT-2N70B6L WPGT-2N350B6L WPGT-2N230B6L1 CG2145 T61-C350X 9071.99.0547 (73\_Z-0-0-547) B88069X6940B152 RF1219-000 A9L16618 RF2339-000 9071.99.0052(73\_Z-0-0-52) 9071.99.0054 CG32.7L CG6400SM CG6470SM CG7250MS CG7400MS SPBT12-280/1 SPCT2-280/3 SPCT2-280/4 T2 20KA 4P 2003-09-SM-RPLF 2026-07-A1 2026-25-C3 2039-80-BLF