

Surge arrester

2-electrode arrester

Version:

Series/Type:	A80-C90XSMD
Ordering code:	B88069X1630T602
Date:	2016-02-03

12

© EPCOS AG 2016. 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.



B88069X1630T602

A80-C90XSMD

Surge arrester

2-electrode arrester

Features

- Standard size
- Fast response time
- Very high current rating
- Stable performance over life
- Very low capacitance
- High insulation resistance
- Excellent SMD handling
- RoHS-compatible

Electrical specifications

Applications

- Consumer electronic
- Alarm systems

Electrical specifications				
DC spark-over voltage ^{1) 2)}	90	V		
Tolerance		±20	%	
Min.	72	V		
Max.	108	V		
Impulse spark-over voltage				
at 100 V/µs - for 99% of m	< 500	V		
- typical value	< 450	V		
at 1 kV/µs - for 99% of m	< 600	V		
- typical value	< 550	V		
Service life				
10 operations	50 Hz, 1 s	20	А	
1 operation	50 Hz; 0.18 s (9 cycles)	100	А	
10 operations [5x (+) & 5x (-)]	20	kA		
1 operation	8/20 µs	25	kA	
1 operation	10/350 µs	5	kA	
300 operations	10/1000 µs	100	А	
Insulation resistance at 50 V_{DC}	> 10	GΩ		
Capacitance at 1 MHz		< 1.5	pF	
Arc voltage at 1 A		~ 10	V	
Glow to arc transition current		< 0.5	А	
Glow voltage		~ 60	V	
Weight		~ 1.5	g	
Operation and storage temperature		-40 +125	°C	
Climatic category (IEC 60068-1)		40/125/21		
Marking, blue negative	EPCOS 90 YY 090- Nominal voltageYY- Year of productionO- Non radioactive			
Certification		UL 497B (E163070)	R	

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

²⁾ In ionized mode

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

PPD AB PD / PPD AB PM

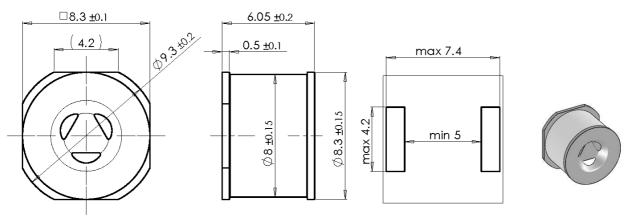


Surge arrester

2-electrode arrester

B88069X1630T602 A80-C90XSMD

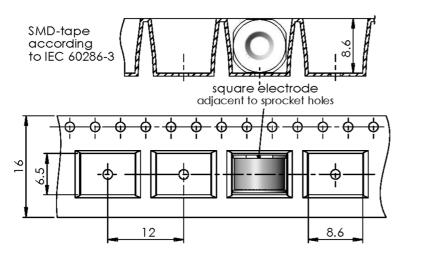
Dimensional drawing in mm



pad outline acc. to IPC-7351 tin-plated (producibility level A; density lecel C)

Ordering code and packing advice

B88069X1630T602 = 600 pcs. on SMD-tape



0 0	0	0	0	0	0	0	0	0	0	0	0
	,]		0			0	1		0	1	

公TDK

Surge arrester

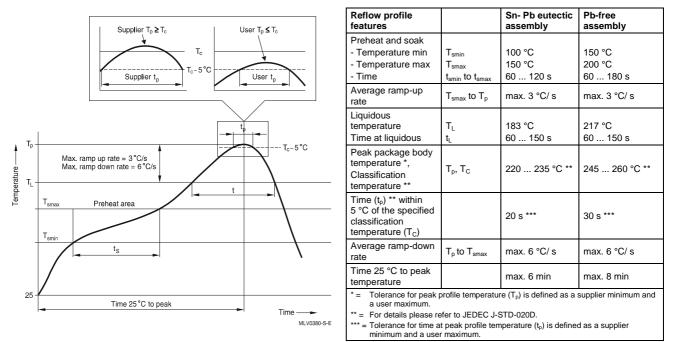
2-electrode arrester

B88069X1630T602

A80-C90XSMD

Soldering parameter

Reflow soldering



Surface mounted components (SMD) may exhibit a temporary increase in the DC spark-over voltage after the solder reflow process. The components will recover within 24 hours. There is no quality defect nor change in protection levels during the temporary change in DC spark-over voltage.

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.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.
- The shown SMD pad dimensions represent a safe way to mount the arrester and are a recommendation of the manufacturer. During the reflow process it must be assured that no solder material reduces the insulation distance between the pads below the arrester.
- SMD surge arresters should be soldered within 24 month after shipment.

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

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, Alu-X, CeraDiode, CeraLink, CeraPad, CeraPlas, CSMP, CSSP, CTVS, DeltaCap, DigiSiMic, DSSP, ExoCore, FilterCap, FormFit, LeaXield, MiniBlue, MiniCell, MKD, MKK, MotorCap, PCC, PhaseCap, PhaseCube, PhaseMod, PhiCap, PQSine, SIFERRIT, SIFI, SIKOREL, SilverCap, SIMDAD, SiMic, SIMID, SineFormer, SIOV, SIP5D, SIP5K, TFAP, 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 tdk manufacturer:

Other Similar products are found below :

VLF5012ST-1R0N2R5 R14493 SWS1000L-24/BL CXA-2115 MCZ1210AH301L2T 78P7200-IH/F MLP2012S1R5TT ACH3218-682-TD01 ACT45B-KIT NL565050T-822J-PF C1005JB1H471K050BA C1608CH1H151J080AA C2012JB1H105K125AB C4532NP01H154J250KA CD75-B2GA331KYGKA CLF10040T-221M CLF12555T-220M R22095*REPAIRED MLF1005LR12K VLS252015T-3R3M1R0 VLS4012T-150MR65 ZCAT-KIT MPZ2012-KIT NLV32T-R27J-EFD CGA3EANP02A682J080AC CKCM25C0G2A101K060AK CLF10040T-4R7N WTM505090-10K2-5V-G1 VLS252010HBX-R24M-1 CGJ2B2X7R1C222K CGA9M1X7T2J334K CGA8P3X7T2E105M/SOFT CGA6J4C0G2J392J CGA6M3X7R2E154K CGA3E3C0G2E181J CGA2B2C0G1H331J C-WPTX01-E6-KIT CEU-AC01-E6-KIT CERB3UX5R0G105M RLF12545T-100M5R1-PF PFE500F28/T CCT406393-600-36-02 PFC3819QM-181K09B-00 VLF3010AT-100MR49 MMZ0603D330C MPZ2012S102ATD25 MLG0603P-2-KIT MLG1608B18NJ UHV-251A FHV-11AN