

Surge arrester

3-electrode arrester

Series/Type: Ordering code:	T23-C600X B88069X8120B502
Date:	2015-06-03
Version:	04

© 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

3-electrode arrester

B88069X8120B502 T23-C600X

Features

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

Applications

- Base stations
- Line protection
- Station protection

Electrical specifications

DC spark-over voltage ^{1) 2) 3)}		420 700	V
Impulse spark-over voltage 3)			
at 100 V/µs - for 99% of measured values		< 900	V
- typical values of distribution		< 800	V
at 1 kV/µs - for 99% of measured values		< 1000	V
- typical values	of distribution	< 950	V
Service life			
10 operations	50 Hz; 1 s ⁴⁾	20	A
1 operation	50 Hz; 0.18 s (9 cycl.) ^{4) 5)}	130	A
10 operations [5x (+) & 5x (–)]	8/20 μs ⁴⁾	20	kA
1 operation	8/20 μs ^{4) 5)}	40	kA
1 operation	10/350 µs ⁴⁾	5	kA
400 operations	10/1000 µs ⁴⁾	1000	А
Insulation resistance at 100 V_{DC} ³⁾		> 10	GΩ
Capacitance at 1 MHz 3)		< 1.5	pF
Transverse delay time ⁶⁾		< 0.2	μs
Arc voltage at 1 A		~ 20	V
Glow to arc transition current		~ 0.5	A
Glow voltage		~ 200	V
Weight		~ 2.2	g
Operation and storage temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
		EPCOS 600 YY O 600 - Nominal vo YY - Year of pro O - Non radioa	oduction

Remarks on next page

PPD AB PD / PPD AB PM

⊗TDK

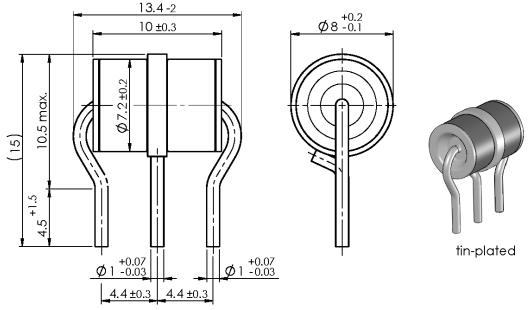
Surge arrester

3-electrode arrester

- ¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859
- ²⁾ In ionized mode
- ³⁾ Tip or ring electrode to center electrode
- ⁴⁾ Total current through center electrode, half value through tip respectively ring electrode
- ⁵⁾ DC spark-over values may exceed ±30 % after stress, but tubes still operates w/o venting
- ⁶⁾ Test according to ITU-T Rec. K.12

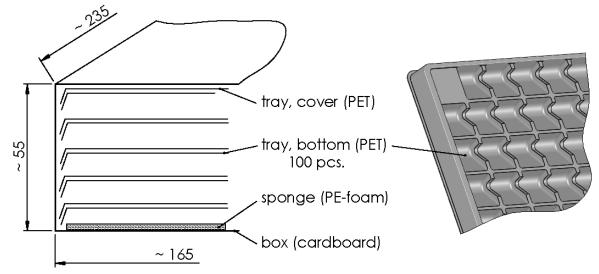
Terms in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

Dimensional drawing in mm



Ordering code and packing advice

B88069X8120**B502** = 500 pcs. on trays



PPD AB PD / PPD AB PM



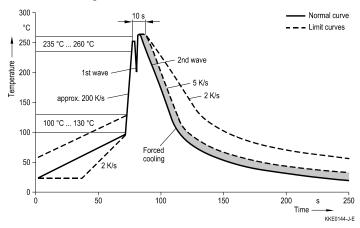
Surge arrester

3-electrode arrester

B88069X8120B502 T23-C600X

Soldering parameter

Wave soldering



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.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- 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.

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 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-2

 2RM230A6L
 WPGT-2RM350A6L
 WPGT-2RM70A6L
 WPGT-2RM90A6L
 WPGT-2S145
 WPGT-2S350
 WPGT-2S470
 WPGT-3R350CF

 WPGT-3R350G1
 WPGT-3R90G1
 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

 SPBT12-280/1
 SPCT2-280/3
 SPCT2-280/4
 T2 20KA 4P
 2003-09-SM-RPLF
 2026-07-A1
 2026-25-C3
 2039-80