

Surge arrester

3-electrode arrester

Series/Type: T90-A230X

Ordering code: B88069X6700C253

Version/Date: Issue 07 / 2013-03-07

© 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 B88069X6700C253

3-electrode arrester T90-A230X

Features

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

Applications

- Line protection
- Station protection
- Base stations

Electrical specifications

DC spark-over voltage 1) 2) 3) DC spark-over voltage 2) 4)		184 276	V
		176 550	V
Impulse spark-over voltage at 100 V/µs - for 99% of measured values 3) - for 50% of measured values 3)		< 600 < 550	V
	//μs - for 99% of measured values ³⁾ - for 50% of measured values ³⁾		V
Service life			
10 operations	50 Hz; 1 s ⁶⁾	5	Α
10 operations	50 Hz; 1 s ⁵⁾	10	Α
10 operations [5x (+) & 5x (-)]	8/20 µs ⁵⁾	10	kA
10 operations [5x (+) & 5x (-)]	8/20 µs ⁶⁾	5	kA
5 operations	10/250 µs ⁵⁾	2.5	kA
2 operations	10/350 µs ⁵⁾	2.5	kA
300 operations	10/1000 μs ⁵⁾	200	A
DC holdover voltage 8)		450	
at $52 V_{DC} / 260 \Omega$ at $80 V_{DC} / 330 \Omega$		< 150 < 150	ms ms
at 135 V_{DC} / 1300 Ω		< 150	ms
Activation after reflow soldering 7)			
1 operation	U = 600 V; 1 s	2	А
Insulation resistance at 100 V _{DC} 4)		> 1	GΩ
Capacitance at 1 MHz ⁴⁾		< 1.5	pF
Transverse delay time 4)		< 0.2	μs
Arc voltage at 1 A		~ 10	V
Glow to arc transition current		~ 1	Α
Glow voltage		~ 60	V
Weight		~ 0.8	g
Storage temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
			2012 07 / 2012 (

PPD AB PD / PPD AB PM Issue 07 / 2013-03-07



Surge arrester B88069X6700C253

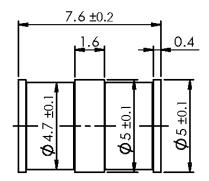
3-electrode arrester T90-A230X

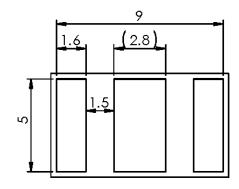
Marking, blue negative

EPCOS
230 YY O
230 - Nominal voltage
YY - Year of production
O - Non radioactive

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

Dimensional drawing in mm







recommended pad outline

tin-plated

PPD AB PD / PPD AB PM Issue 07 / 2013-03-07

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

²⁾ In ionized mode

³⁾ Tip or ring electrode to center electrode

⁴⁾ Tip to ring electrode

⁵⁾ Total current through center electrode, half value through tip respectively ring electrode

⁶⁾ Total current through center electrode, same value through tip respectively ring electrode

⁷⁾ Total current from ring to tip electrode

⁸⁾ Test in accordance with ITU-Rec. K.12

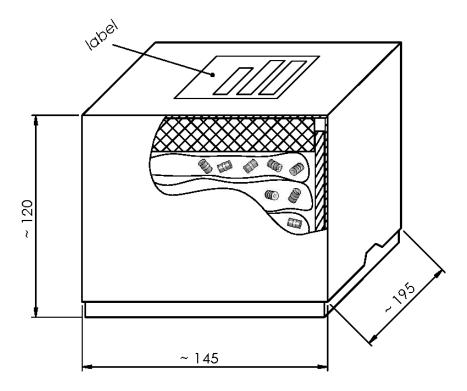


Surge arrester B88069X6700C253

3-electrode arrester T90-A230X

Ordering code and packing advice

B88069X6700**C253** = container with 2500 pcs.



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.
- 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 we are 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 a 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.tdk-electronics.tdk.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 our General Terms and Conditions of Supply.
- 7. Our manufacturing sites serving the automotive business apply the IATF 16949 standard. The IATF certifications confirm our compliance with requirements regarding the quality management system in the automotive industry. Referring to customer requirements and customer specific requirements ("CSR") TDK always has and will continue to have the policy of respecting individual agreements. Even if IATF 16949 may appear to support the acceptance of unilateral requirements, we hereby like to emphasize that only requirements mutually agreed upon can and will be implemented in our Quality Management System. For clarification purposes we like to point out that obligations from IATF 16949 shall only become legally binding if individually agreed upon.
- 8. The trade names EPCOS, CeraCharge, CeraDiode, CeraLink, CeraPad, CeraPlas, CSMP, CTVS, DeltaCap, DigiSiMic, ExoCore, FilterCap, FormFit, LeaXield, MiniBlue, MiniCell, MKD, MKK, MotorCap, PCC, PhaseCap, PhaseCube, PhaseMod, PhiCap, PowerHap, PQSine, PQvar, SIFERRIT, SIFI, SIKOREL, SilverCap, SIMDAD, SiMic, SIMID, SineFormer, SIOV, ThermoFuse, WindCap are trademarks registered or pending in Europe and in other countries. Further information will be found on the Internet at www.tdk-electronics.tdk.com/trademarks.

Release 2018-10

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