

Surge arrester

High voltage surge absorber

Series/Type: HSA-252-6T7 Ordering code: B88069X3193****

Date: 2018-09-06

Version: 07

© EPCOS AG 2018. 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.



High voltage surge absorber

HSA-252-6T7

Features

- Small size for compact circuit design
- Very fast response time
- Extremely low capacitance
- High insulation resistance
- High surge withstand capability
- Allows voltage withstand test up to 85% RH
- Bi-polar design
- RoHS-compatible

Applications

Consumer electronics:

- Refrigerator
- Washing machine
- Air condition

Telecom:

- xDSL modem
- Splitter
- VoIP line cards

Others:

- Switching power supply
- Inverter

Electrical specifications

Certifications	UL 1449 (E319264)	c FN °us
Marking, green positive	EPCOS HSA 252 YY HSA - Series 252 - Nominal voltage (2500 V) YY - Year of production	
Operation and storage temperature	-40 + 125	°C
AC withstand voltage ³⁾ 3 s 1 s	1250 1300	V V
Capacitance at 1 MHz	< 1	pF
Insulation resistance at 100 V _{DC}	> 1	GΩ
Peak surge current 1 operation 8/20 μs	3.5	kA
Impulse life test 300 operations 8/20 µs	100	А
Min. Max.	2000 3000	V V
Nominal DC spark-over voltage 1) 2) Tolerance	2500 ±20	V %

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

PPD AB PD / PPD AB PM

Version: 07 / 2018-09-06

²⁾ In ionized mode

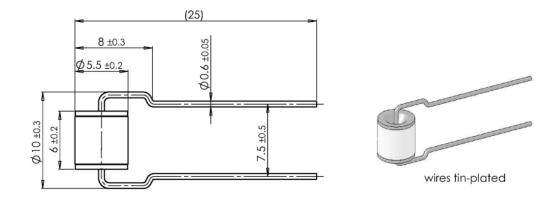
³⁾ Withstand test in acc. to MIL-STD-202G.



High voltage surge absorber

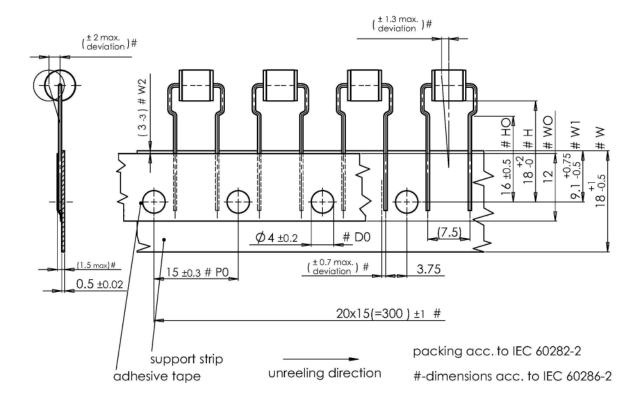
HSA-252-6T7

Dimensional drawing in mm



Ordering codes and packing advices

B88069X3193**A802** = 800 pcs. in ammo pack



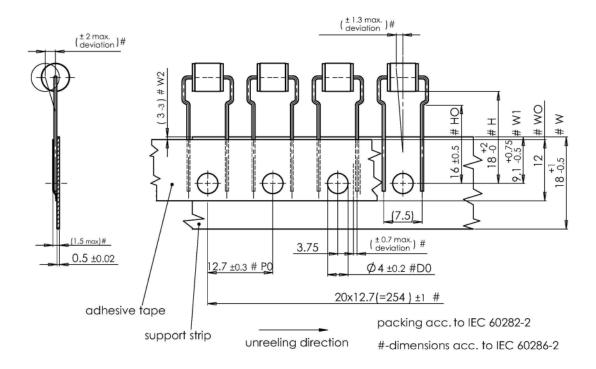
PPD AB PD / PPD AB PM Version: 07 / 2018-09-06

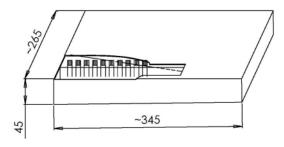


High voltage surge absorber

HSA-252-6T7

B88069X3193**A103** = 1000 pcs. in ammo pack





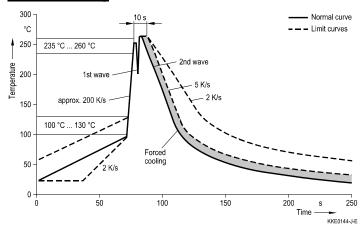


High voltage surge absorber

HSA-252-6T7

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 absorber in power supply networks, whose maximum operating voltage exceeds the minimum spark-over voltage of the surge arresters.
- Surge absorber 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.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- Electromagnetic fields and ionizing radiation may affect the electrical characteristics of the arrester. The impact of such effects (inductive and capacitive field distortion from adjacent components) must be avoided by appropriate circuit design measures.
- Surge absorber must be handled with care and must not be dropped.
- Do not continue to use damaged surge absorber.

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 Version: 07 / 2018-09-06



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. 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.



Important notes

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.epcos.com/trademarks.

Release 2018-06

单击下面可查看定价,库存,交付和生命周期等信息

>>TDK-EPCOS (TDK-爱普科斯)