

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: B88069X1003T152
Manufacturer: TDK
Package: Tape & Reel (TR)
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/tdk/b88069x1003t152.html>

Request a Quote:

[Submit RFQ for this part](#)



Scan for product page

Contact Information

Email: info@antrexco.com

WhatsApp: +86-186-8066-5326

Website: <https://antrexco.com>

Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

Surge arrester

Stacked surge arresters

Series/Type:	LN8A-A1400DC-5
Ordering code:	B88069X1003T152
Date:	2016-12-19
Version:	10

Surge arrester
B88069X1003T152
Stacked surge arresters
LN8A-A1400DC-5
Features

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

Applications

- DC power supply protection 60 V

Electrical specifications	Arrester only	w. capacitors ²⁾	Unit
DC spark-over voltage ¹⁾	1400 ±30	< 1250	V %
Front of wave spark-over voltage at 6 kV, 1.2/50 µs			
- initial	< 2300	< 900	V
- after service life	< 3000	< 1500	V
DC operating voltage ³⁾	60 ±20		V _{DC} %
Service life			
10 operations [5× (+) & 5× (-)]	8/20 µs	20	kA
10 operations [5× (+) & 5× (-)]	10/350 µs	4	kA
100 operations [50× (+) & 50× (-)]	10/350 µs	500	A
300 operations (+/- alternating polarity)	10/1000 µs	100	A
Insulation resistance at 100 V _{DC}	> 10		GΩ
Capacitance at 1 MHz	< 1		pF
Weight	~ 5.5		g
Operation and storage temperature	-40 ... +125		°C
Climatic category (IEC 60068-1)	40/125/21		
Marking, red positive	 YY - Year of production 60DC - DC operating voltage		
Certifications	UL 1449 (E319264)		

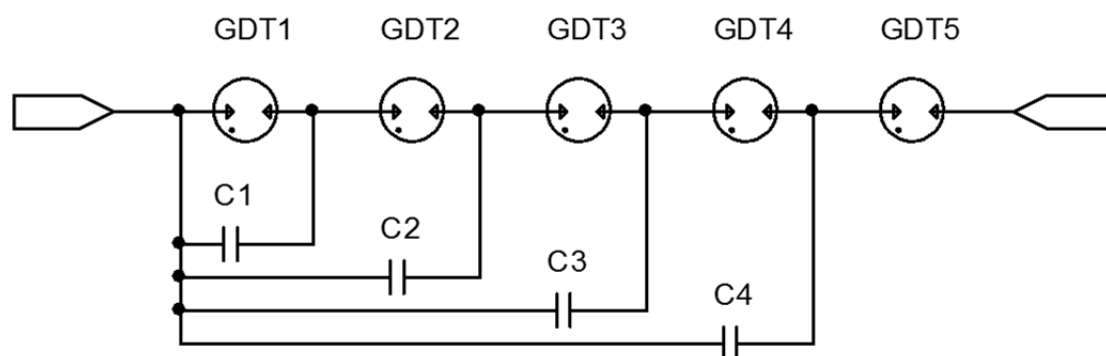
¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859

²⁾ Refer to circuit diagram on page 3

³⁾ DC current source 30 A

Terms in accordance with IEC 61643-11.

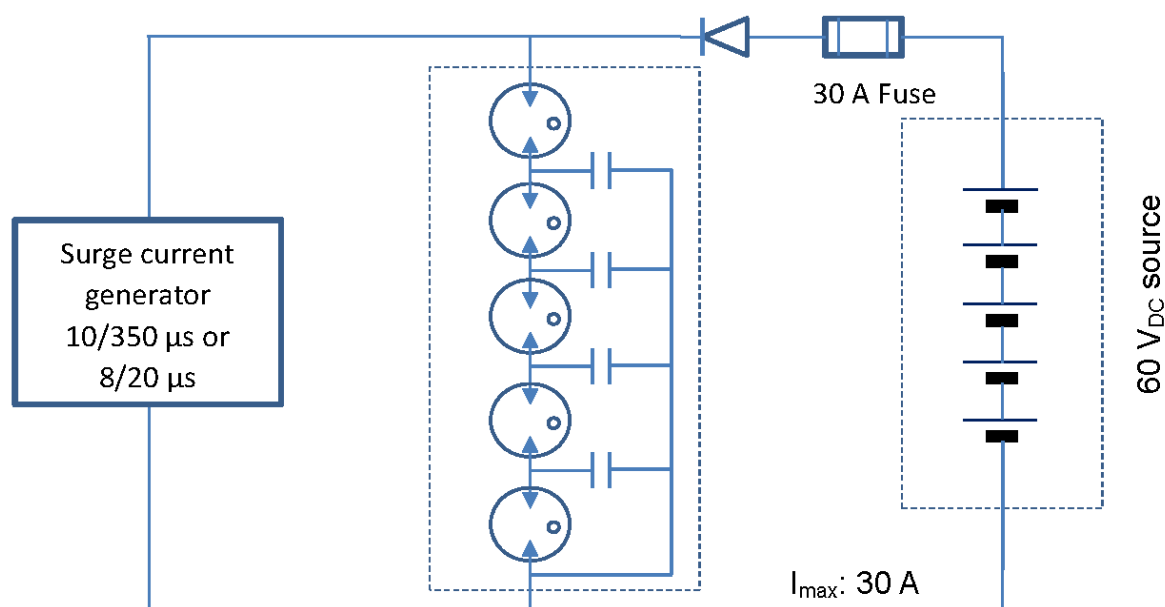
C Circuit diagram (C1 to C4 = each capacitor 100 pF to 470 pF)



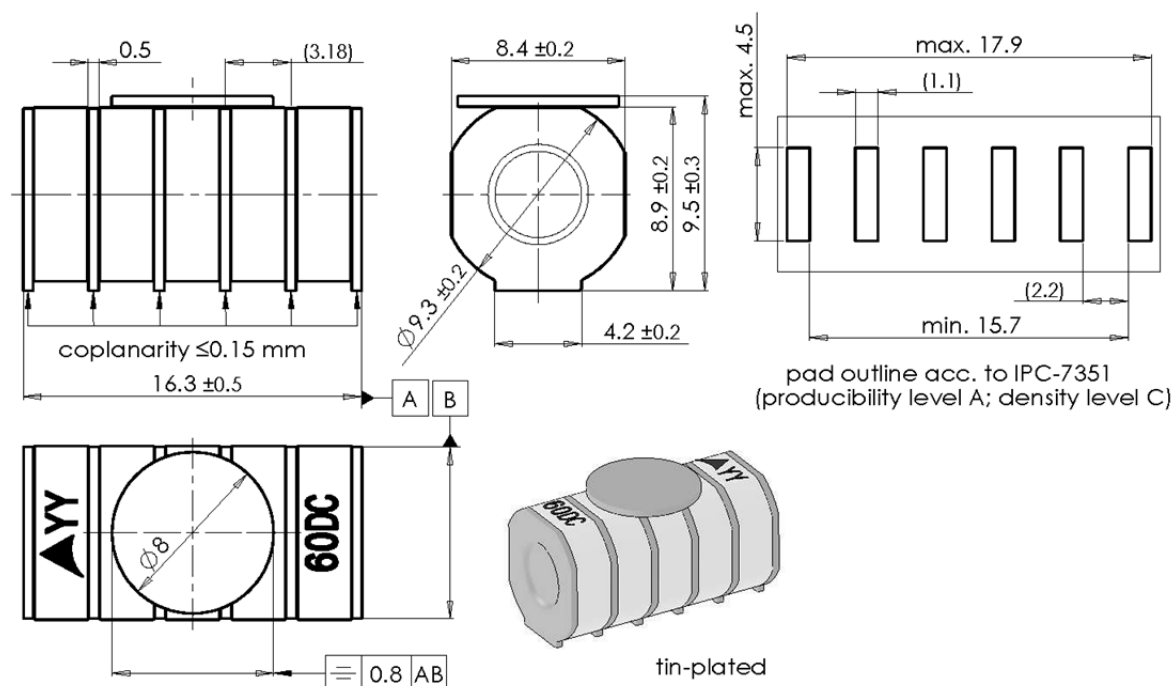
Recommended capacitor: TDK C4520X7R3D471K130KA

Test circuit

10/350 μ s or 8/20 μ s circuit



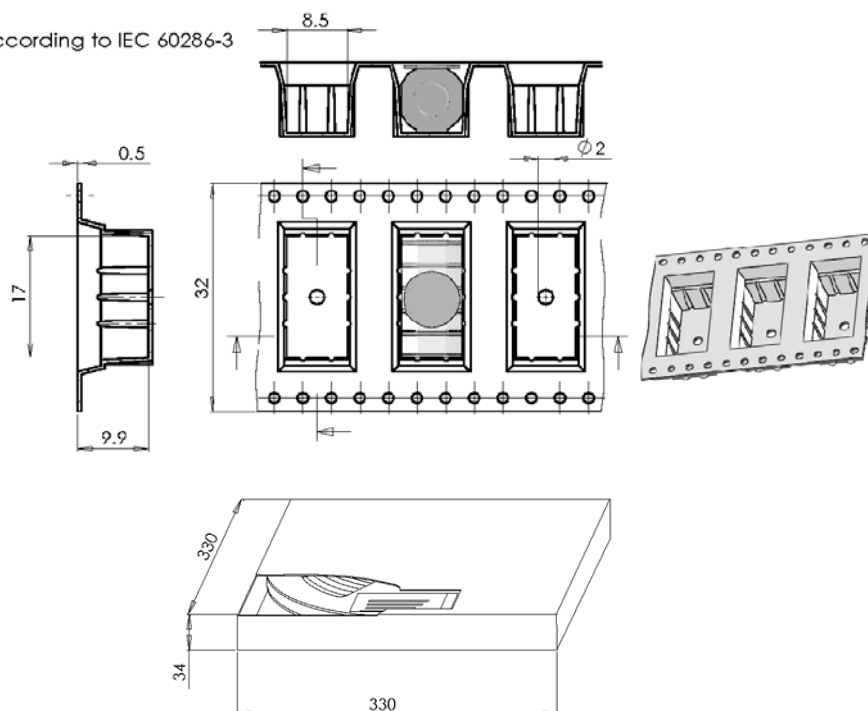
Dimensional drawing in mm



Ordering code and packing advice

B88069X1003T152 = 150 pcs. on SMD-tape & reel

SMD-tape according to IEC 60286-3



Surge arrester

B88069X1003T152

Stacked surge arresters

LN8A-A1400DC-5

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

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