Surge Arresters

Series/Type: T30-A350XSMD

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B88069X7921T702		2019-11-15	2020-02-21	2020-05-21
B88069X7921C253		2019-11-15	2020-02-21	2020-05-21

Please contact your nearest TDK sales office if you need support in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.tdk-electronics.tdk.com/sales.

Features

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

Applications

- Line protection
- Station protection
- Base stations

Electrical specifications

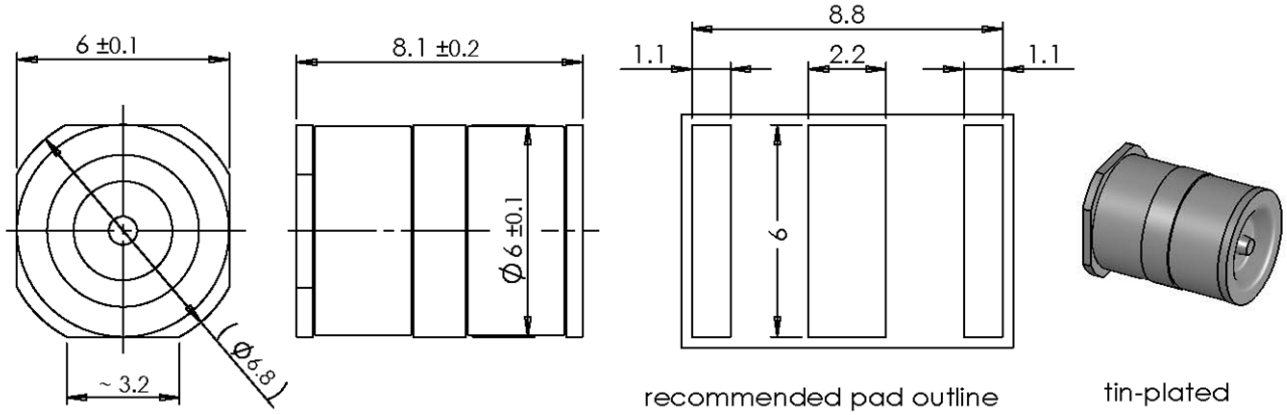
DC spark-over voltage [1) 2) 4) 5)]	350 ± 20	V %
Impulse spark-over voltage [4)]		
at 100 V/µs - for 99 % of measured values	< 800	V
- typical values of distribution	< 650	V
at 1 kV/µs - for 99 % of measured values	< 900	V
- typical values of distribution	< 700	V
Service life		
10 operations 50 Hz; 1 s [6)]	10	A
1 operation 50 Hz; 0.18 s (9 cycles) [6)]	30	A
10 operations [5× (+) & 5× (–)] 8/20 µs [6)]	10	kA
1 operation 8/20 µs [6)]	15	kA
1 operation 10/350 µs [6)]	2	kA
Insulation resistance at 100 V_{DC} [4)]	> 10	GΩ
Capacitance at 1 MHz [4)]	< 1.5	pF
Transverse delay time [3)]	< 0.2	µs
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 30 ~ 1 ~ 200	V A V
Weight	~ 1.4	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
UL recognition - 1449 ed. 3 type 3	E319264	
Marking, blue negative	**EPCOS** **350 YY O** 350 - Nominal voltage YY - Year of production O - Non radioactive	

Remarks see next page above

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In ionized mode
3) Test according to ITU-T Rec. K.12
4) Tip or ring electrode to center electrode
5) Tip to ring electrode
6) Total current through center electrode, half value through tip respectively ring electrode.

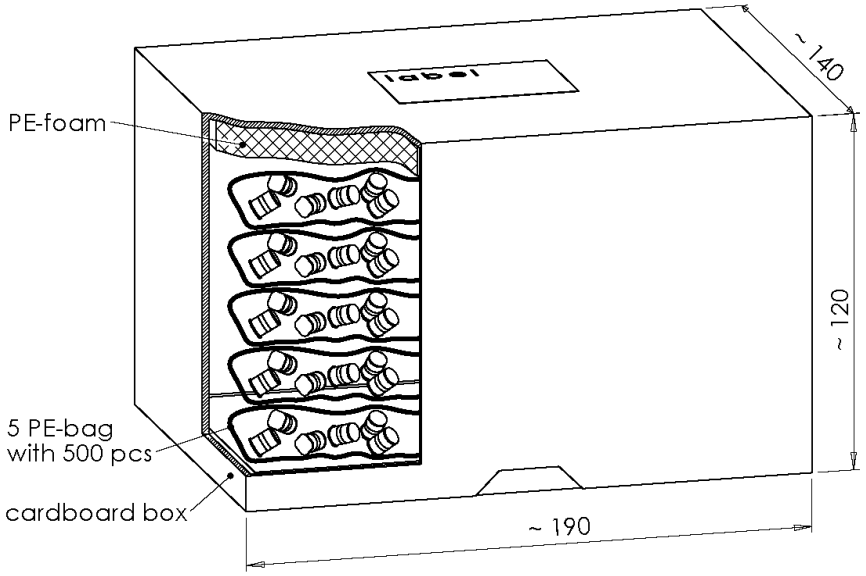
Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

Dimensional drawing in mm

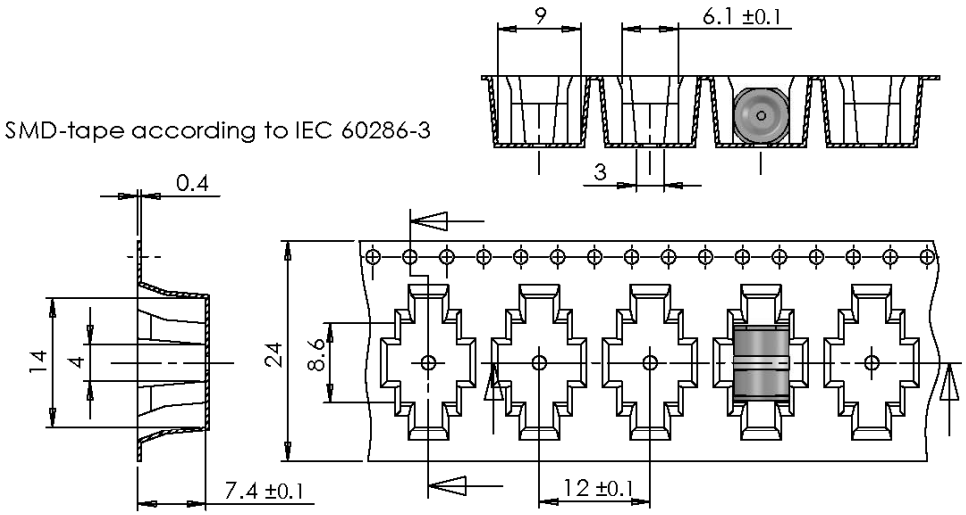


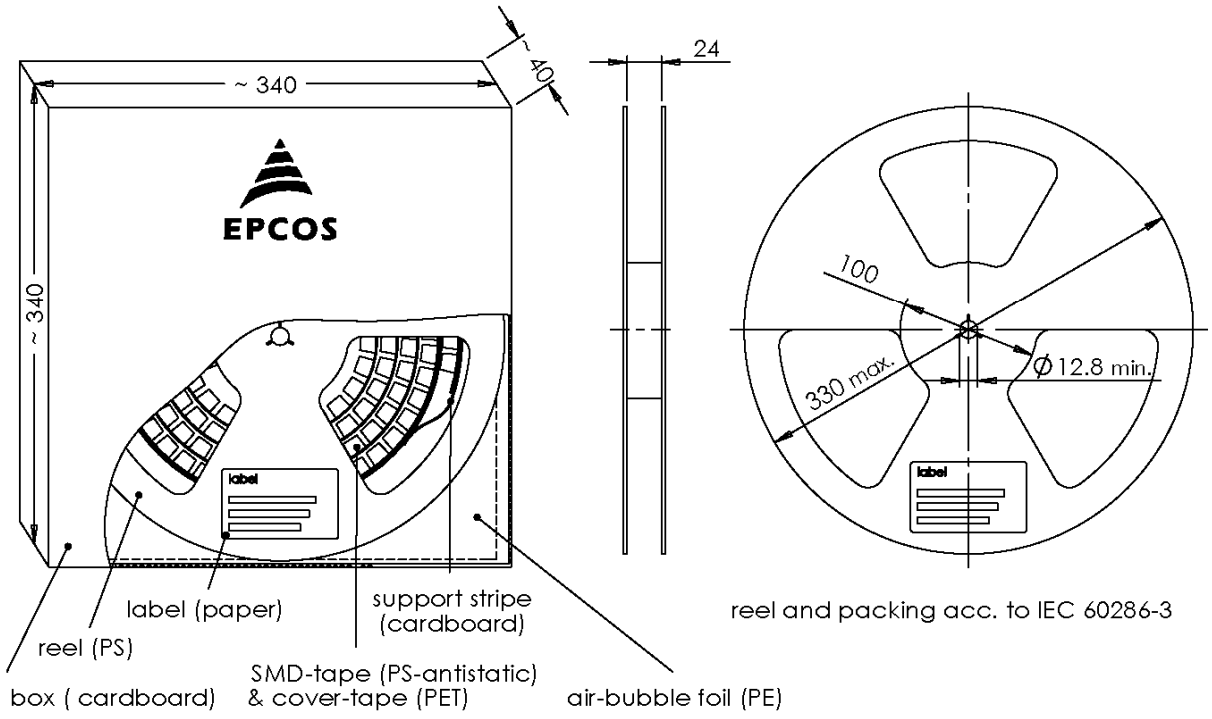
Ordering codes and packing advices

*B88069X7921**C253** = 2500 pcs on container*



*B88069X7921**T702** = 700 pcs on SMD tape*





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 head 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.

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