

# ANTREX Electronics

Electronic Components Sourcing Information

---

## Product Reference Information

**Part Number:** B88069X1683S102  
**Manufacturer:** TDK  
**Package:** Bulk  
**Availability:** Please confirm with sales

### Product Page:

<https://antrexco.com/product/details/tdk/b88069x1683s102.html>

### Request a Quote:

[Submit RFQ for this part](#)



Scan for product page

## Contact Information

Email: [info@antrexco.com](mailto: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

### 2-electrode arrester

|                       |                        |
|-----------------------|------------------------|
| <b>Series/Type:</b>   | <b>EHV62-H36</b>       |
| <b>Ordering code:</b> | <b>B88069X1683****</b> |
| <b>Date:</b>          | <b>2026-04-01</b>      |
| <b>Version:</b>       | <b>06</b>              |

**Features**

- Built to automotive standard (IATF 16949)
- Small size
- Fast response time
- High current capability
- Stable performance over service life
- Low capacitance and insertion loss
- High insulation resistance
- RoHS-compatible

**Applications**
Automotive:

- On-board chargers
- Vehicle charging stations

Others:

- LED lighting
- Power supply
- Photovoltaic
- Air conditioning

**Electrical specifications**

|                                              |              |       |
|----------------------------------------------|--------------|-------|
| DC spark-over voltage <sup>1) 2)</sup>       | 3600         | V     |
| Tolerance                                    | ±20          | %     |
| Min.                                         | 2880         | V     |
| Max.                                         | 4320         | V     |
| Impulse spark-over voltage                   |              |       |
| at 100 V/μs - for 99% of measured values     | < 4350       | V     |
| - typical values of distribution             | < 4150       | V     |
| at 1 kV/μs - for 99% of measured values      | < 4500       | V     |
| - typical values of distribution             | < 4300       | V     |
| at 5 kV/μs - for 99% of measured values      | < 5000       | V     |
| - typical values of distribution             | < 4500       | V     |
| Service life                                 |              |       |
| 300 operations 8/20 μs                       | 100          | A     |
| 3 operations 8/20 μs                         | 3            | kA    |
| 1 operation 8/20 μs                          | 5            | kA    |
| Insulation resistance at 100 V <sub>DC</sub> | > 1          | GΩ    |
| Capacitance at 1 MHz                         | < 1          | pF    |
| Arc voltage at 1 A                           | ~ 45         | V     |
| Glow to arc transition current               | < 0.3        | A     |
| Glow voltage at 0.1 A                        | ~ 240        | V     |
| AC withstand voltage (1 min) <sup>3)</sup>   | 1800         | V     |
| DC withstand voltage (1 min) <sup>3)</sup>   | 2500         | V     |
| Weight                                       | ~ 1          | g     |
| Operation and storage temperature            | -40 ... +125 | °C    |
| Recommended storage                          |              |       |
| - temperature                                | +5 ... +35   | °C    |
| - humidity                                   | 45 ... 80    | %     |
| - period                                     | ≤ 2          | years |

Continued on next page

# Surge arrester

B88069X1683\*\*\*\*

## 2-electrode arrester

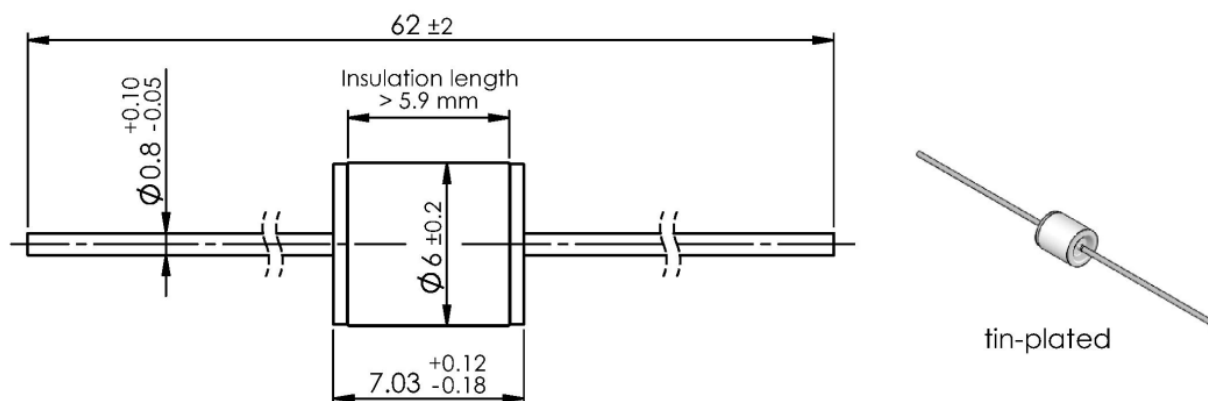
EHV62-H36

|                                 |                                                                                                                          |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Climatic category (IEC 60068-1) | 40/125/21                                                                                                                |
| Marking, blue positive          | <b>TDK 3600 WWY</b><br>3600 - Nominal voltage<br>WW - Calendar week of production<br>Y - Year of production (last digit) |
| Certifications                  | UL 1449 (E319264)                     |

- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Test conditions in acc. with MIL-STD-202G at  $25 \pm 5$  °C, relative humidity of  $\leq 55\%$  and atmospheric pressure 860 ... 1100mbar.

Terms and current waveforms in accordance with: ITU-T Rec. K. 12; IEC 61643-21; 61643-311.

## Dimensional drawing in mm



Surge arrester

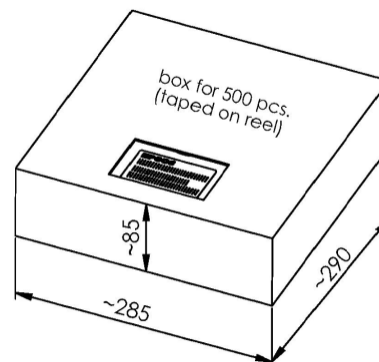
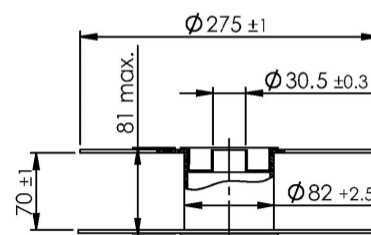
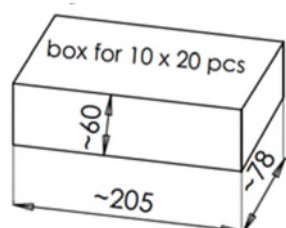
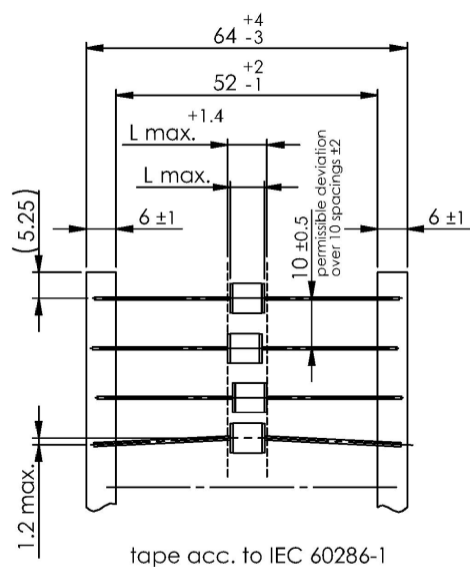
B88069X1683\*\*\*\*

2-electrode arrester

EHV62-H36

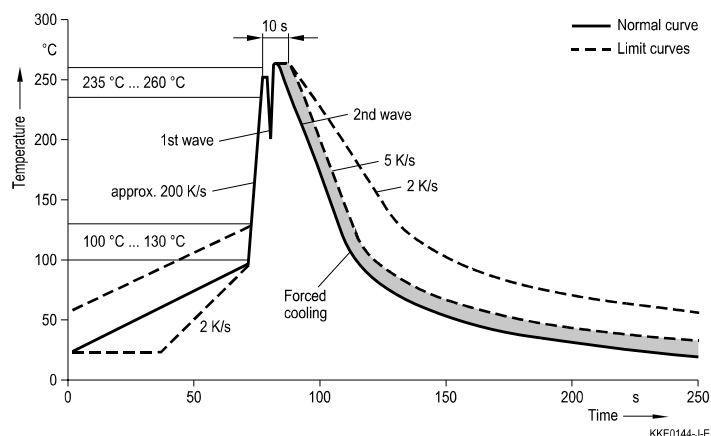
### Ordering codes and packing advices

B88069X1683S202 = 200 pcs. on 10 taped stripes      B88069X1683T502 = 500 pcs. on tape & reel



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

The ordering code for one and the same product can be represented differently in data sheets, data books, other publications, on the company 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.tdk-electronics.tdk.com/orderingcodes](http://www.tdk-electronics.tdk.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](http://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.

## Important notes

8. The trade names EPCOS, CarXield, CeraCharge, CeraDiode, CeraLink, CeraPad, CeraPlas, CSMP, CTVS, DeltaCap, DigiSiMic, FilterCap, FormFit, InsuGate, LeaXield, MediPlas, MiniBlue, MiniCell, MKD, MKK, ModCap, MotorCap, PCC, PhaseCap, PhaseCube, PhaseMod, PhiCap, PiezoBrush, PlasmaBrush, PowerHap, PQSine, PQvar, SIFERRIT, SIFI, SIKOREL, SilverCap, SIMDAD, SiMic, SIMID, SineFormer, SIOV, SurfIND, ThermoFuse, WindCap, XieldCap 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](http://www.tdk-electronics.tdk.com/trademarks).

Release 2024-02