

# ANTREX Electronics

## Electronic Components Sourcing Information

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### Product Reference Information

**Part Number:** B88069X7700B102  
**Manufacturer:** TDK  
**Package:** Bulk  
**Availability:** Please confirm with sales

**Product Page:**

<https://antrexco.com/product/details/tdk/b88069x7700b102.html>

**Request a Quote:**

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### Contact Information

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

WhatsApp: +86-186-8066-5326

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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

### 3-electrode arrester

|                       |                        |
|-----------------------|------------------------|
| <b>Series/Type:</b>   | <b>T61-C350X</b>       |
| <b>Ordering code:</b> | <b>B88069X7700B102</b> |
| Date:                 | 2026-04-01             |
| Version:              | 05                     |

## Surge arrester

B88069X7700B102

### 3-electrode arrester

T61-C350X

#### Features

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

#### Applications

- Branch exchange (MDF)
- Line protection
- Station protection

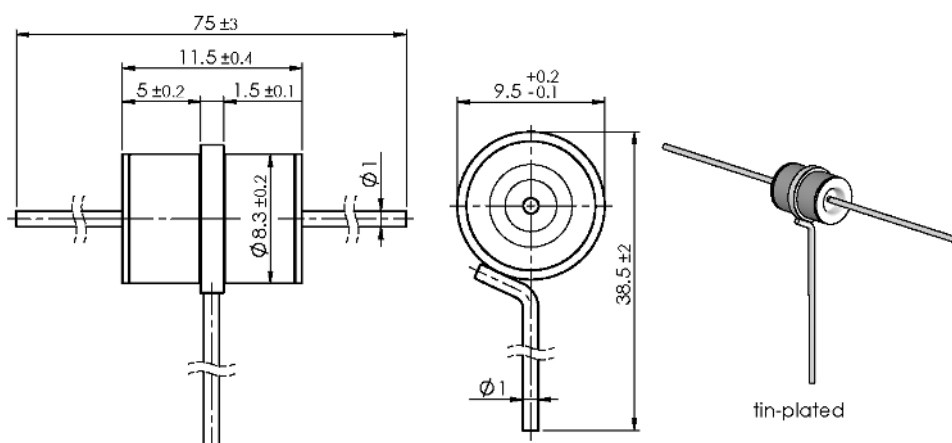
#### Electrical specifications

|                                                            |                                       |                                                                                 |                                                                                       |
|------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| DC spark-over voltage <sup>1) 2) 3)</sup>                  |                                       | 350                                                                             | V                                                                                     |
| Tolerance                                                  |                                       | ±25                                                                             | %                                                                                     |
| Min.                                                       |                                       | 263                                                                             | V                                                                                     |
| Max.                                                       |                                       | 437                                                                             | V                                                                                     |
| Impulse spark-over voltage <sup>3)</sup>                   |                                       |                                                                                 |                                                                                       |
| at 100 V/μs                                                | - for 99% of measured values          | < 800                                                                           | V                                                                                     |
|                                                            | - typical values of distribution      | < 770                                                                           | V                                                                                     |
| at 1 kV/μs                                                 | - for 99% of measured values          | < 900                                                                           | V                                                                                     |
|                                                            | - typical values of distribution      | < 850                                                                           | V                                                                                     |
| Service life                                               |                                       |                                                                                 |                                                                                       |
| 10 operations                                              | 50 Hz; 1 s <sup>4)</sup>              | 20                                                                              | A                                                                                     |
| 1 operation                                                | 50 Hz; 0.18 s (9 cycl.) <sup>4)</sup> | 130                                                                             | A                                                                                     |
| 10 operations [5× (+) & 5× (-)]                            | 8/20 μs <sup>4)</sup>                 | 20                                                                              | kA                                                                                    |
| 2 operations                                               | 8/20 μs <sup>4)</sup>                 | 40                                                                              | kA                                                                                    |
| 1 operation                                                | 10/350 μs <sup>4)</sup>               | 5                                                                               | kA                                                                                    |
| Insulation resistance at 100 V <sub>DC</sub> <sup>3)</sup> |                                       | > 10                                                                            | GΩ                                                                                    |
| Capacitance at 1 MHz <sup>3)</sup>                         |                                       | < 1.5                                                                           | pF                                                                                    |
| Transverse delay time <sup>5)</sup>                        |                                       | < 0.2                                                                           | μs                                                                                    |
| Arc voltage at 1 A                                         |                                       | ~ 35                                                                            | V                                                                                     |
| Glow to arc transition current                             |                                       | < 1                                                                             | A                                                                                     |
| Glow voltage                                               |                                       | ~ 200                                                                           | V                                                                                     |
| Weight                                                     |                                       | ~ 3.0                                                                           | g                                                                                     |
| Operation and storage temperature                          |                                       | -40 ... +125                                                                    | °C                                                                                    |
| Climatic category (IEC 60068-1)                            |                                       | 40/125/21                                                                       |                                                                                       |
| Marking, blue negative                                     |                                       | <b>TDK</b><br><b>350 YY</b><br>350 - Nominal voltage<br>YY - Year of production |                                                                                       |
| Certifications                                             |                                       | UL 497B (E163070)                                                               |  |

Remarks on next page

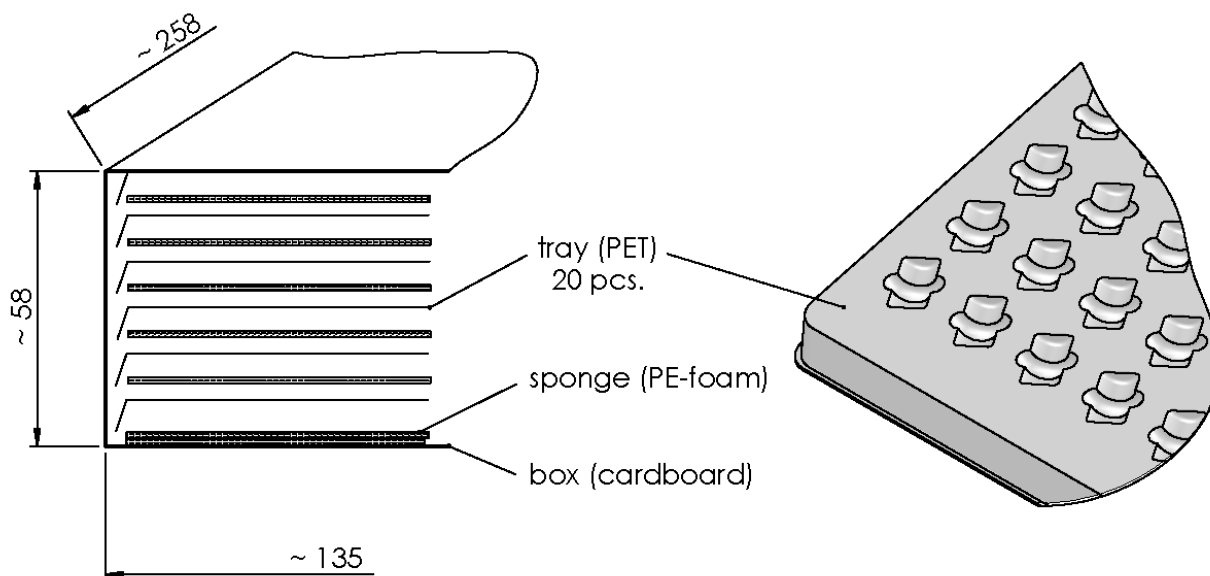
- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Tip or ring electrode to center electrode
- 4) Total current through center electrode, half value through tip respectively ring electrode.
- 5) Test according to ITU-T Rec. K.12

### Dimensional drawing in mm



### Ordering code and packing advice

**B88069X7700B102** = 100 pcs. on trays



### 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.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- 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.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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## Important notes

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