

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: B88069X8830B102
Manufacturer: TDK
Package: Bulk
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/tdk/b88069x8830b102.html>

Request a Quote:

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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

3-electrode arrester

Series/Type:	T63-C600X
Ordering code:	B88069X8830B102
Date:	2026-04-01
Version:	05

Surge arrester

B88069X8830B102

3-electrode arrester

T63-C600X

Features

- Very fast response time
- Maximum current rating
- Stable performance over life
- Low capacitance
- High insulation resistance
- RoHS-compatible

Applications

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

Electrical specifications

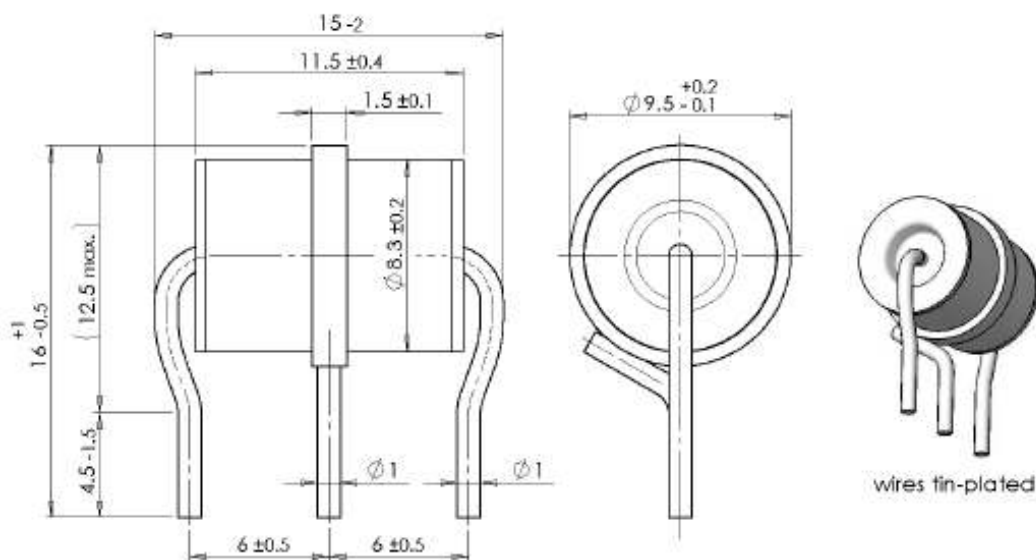
DC spark-over voltage ^{1) 2) 3)}	600	V
Tolerance	-30 ... +17	%
Min.	420	V
Max.	700	V
Impulse spark-over voltage ³⁾		
at 100 V/μs - for 99% of measured values	< 900	V
- typical values of distribution	< 870	V
at 1 kV/μs - for 99% of measured values	< 1000	V
- typical values of distribution	< 970	V
Service life		
10 operations 50 Hz; 1 s ⁴⁾	20	A
1 operation 50 Hz; 0.18 s (9 cycl.) ⁴⁾	130	A
10 operations [5× (+) & 5× (-)] 8/20 μs ⁴⁾	20	kA
2 operations 8/20 μs ⁴⁾	40	kA
1 operation 10/350 μs ⁴⁾	5	kA
Insulation resistance at 100 V _{DC} ³⁾	> 10	GΩ
Capacitance at 1 MHz ³⁾	< 1.5	pF
Transverse delay time ⁵⁾	< 0.2	μs
Arc voltage at 1 A	~ 35	V
Glow to arc transition current	< 1	A
Glow voltage	~ 200	V
Weight	~ 3.5	g
Operation and storage temperature	-40 ... +125	°C
Climatic category (IEC 60068-1)	40/125/21	
Marking, blue negative	TDK 600 YY 600 - Nominal voltage 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

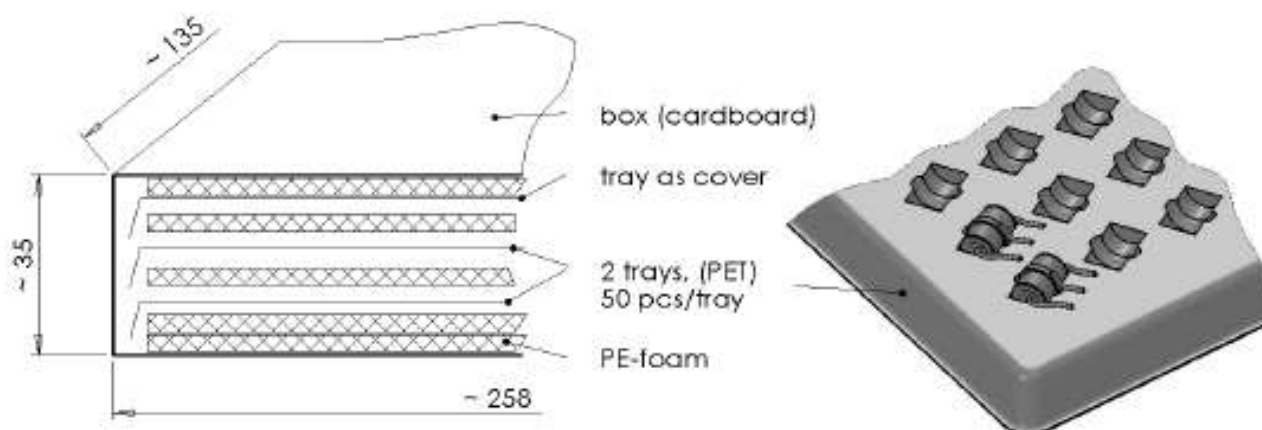
Terms in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

Dimensional drawing in mm



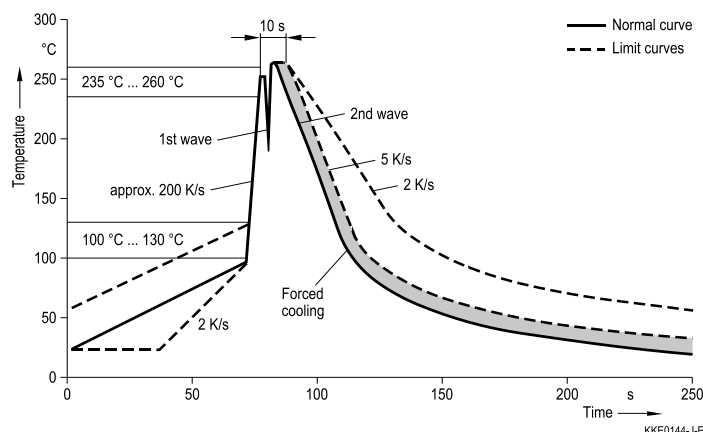
Ordering codes and packing advices

B88069X8830B102 = 100 pcs. on trays



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.
- 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.

Display of ordering codes for TDK Electronics products

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Important notes

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