

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: B88069X1623T502
Manufacturer: TDK
Package: Tape & Reel (TR)
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/tdk/b88069x1623t502.html>

Request a Quote:

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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

2-electrode arrester

Series/Type:	A81-A700XP2
Ordering code:	B88069X1623****
Date:	2026-04-01
Version:	05

Surge arrester

B88069X1623****

2-electrode arrester

A81-A700XP2

Features

- Very fast response time
- Stable performance over life
- High insulation resistance
- RoHS-compatible

Applications

- AC power line N-PE application
- Class II – surge protection

Electrical specifications

DC spark-over voltage ^{1) 2)}		> 550	V
Front of wave spark-over voltage - at 1.2/50 μ s, 6 kV		< 1500	V
Breakdown time - typical values		< 100 < 20	ns ns
Insulation resistance at 100 V _{DC}		> 1	G Ω
Class II according to IEC 61643-11			
Max. continuous operating voltage at 50/60 Hz	U _c	265	V
Nominal discharge current 8/20 μ s	I _n	10	kA
Maximum discharge current 8/20 μ s	I _{max}	20	kA
Follow current at 50/60 Hz	I _f	100	A
Weight		~ 3	g
Operation and storage temperature		-40 ... +125	°C
Climatic category (IEC 60068-1)		40/125/21	
Marking, blue positive		TDK 700 YY 700 - Nominal voltage YY - Year of production	
Certifications		UL 1449 (E319264)	

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

²⁾ In darkness without storage

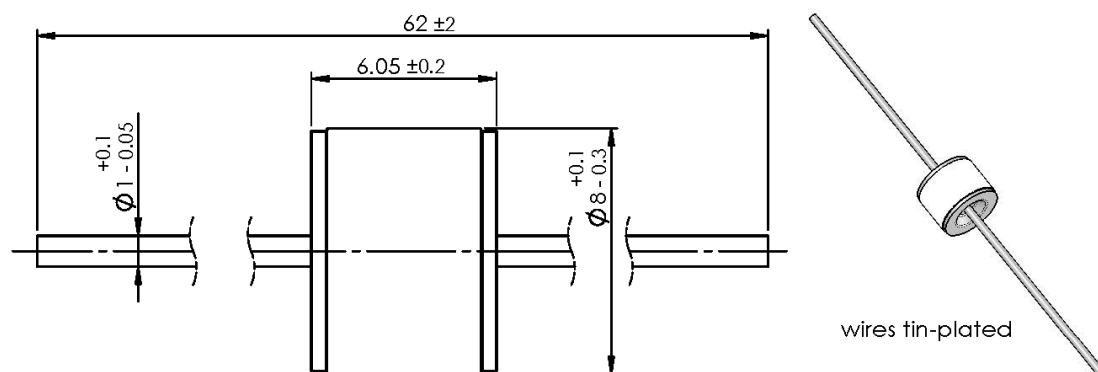
Surge arrester

B88069X1623****

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A81-A700XP2

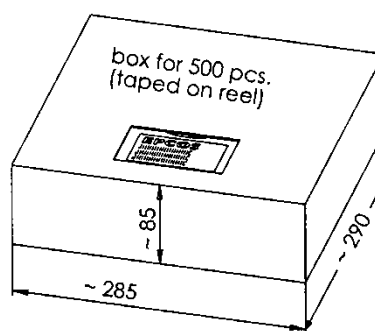
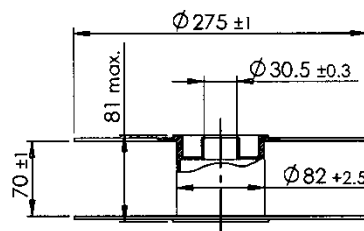
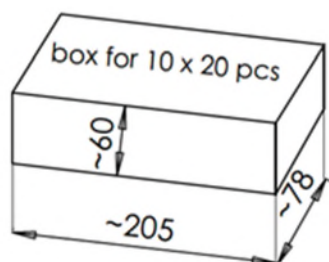
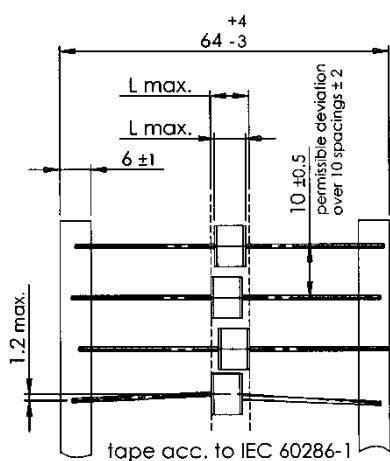
Dimensional drawing in mm



Ordering codes and packing advices

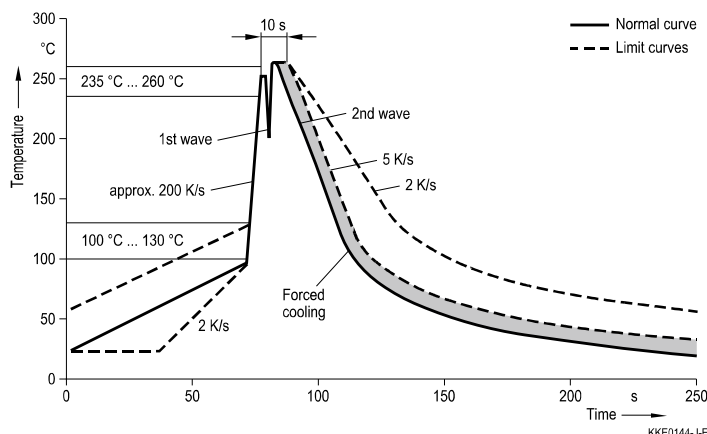
B88069X1623S202 = 200 pcs. on 10 taped stripes

B88069X1623T502 = 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

- The follow current must be limited (see values on page 2) so that the arrester can be properly extinguished when the surge has decayed. The arrester might otherwise heat up and ignite adjacent components.
- 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.

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Important notes

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