

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: B88069X8551T502
Manufacturer: TDK
Package: Tape & Reel (TR)
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/tdk/b88069x8551t502.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

2-electrode arrester

Series/Type:	A81-H11XPD
Ordering code:	B88069X8551****
Date:	2026-04-01
Version:	04

Surge arrester

B88069X8551****

2-electrode arrester

A81-H11XPD

Features

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

Applications

- AC power line devices – class II

Electrical specifications

DC spark-over voltage ^{1) 2)} - Tolerance	1100 ±30	V %
Front of wave spark-over voltage - at 1.2/50 µs, 6 kV; for 99% of measured values	< 2200	V
Breakdown time - typical values	< 100 < 20	ns ns
Insulation resistance at 100 V _{DC}	> 1	GΩ
Class II ³⁾		
Max. continuous operating voltage at 50/60 Hz	U _C 510	V
Nominal discharge current 8/20 µs	I _n 10	kA
Maximum discharge current 8/20 µs	I _{max} 20	kA
Weight	~ 3	g
Operation and storage temperature	-40 ... +125	°C
Climatic category (IEC 60068-1)	40/125/21	
Marking, blue positive	TDK 1100 YY 1100 - 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

³⁾ Test sequence in accordance with IEC 61643-11.

Follow current has to be avoided by an appropriate external circuit (e.g. varistor in series).

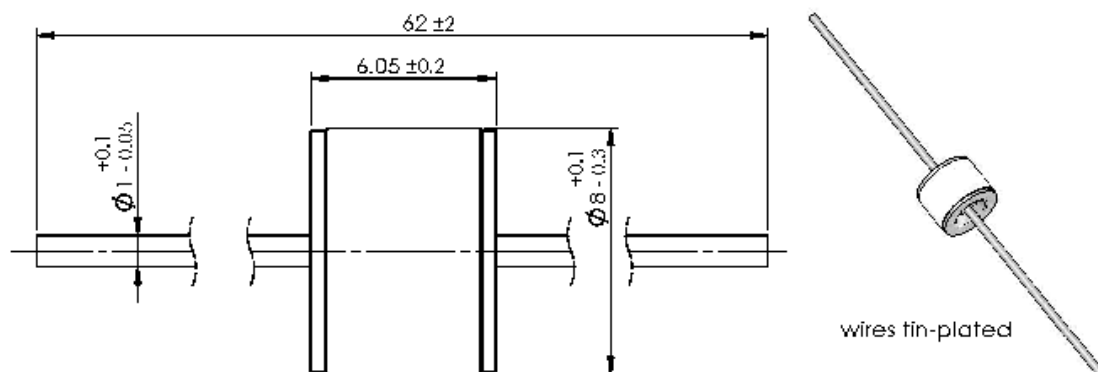
Surge arrester

B88069X8551****

2-electrode arrester

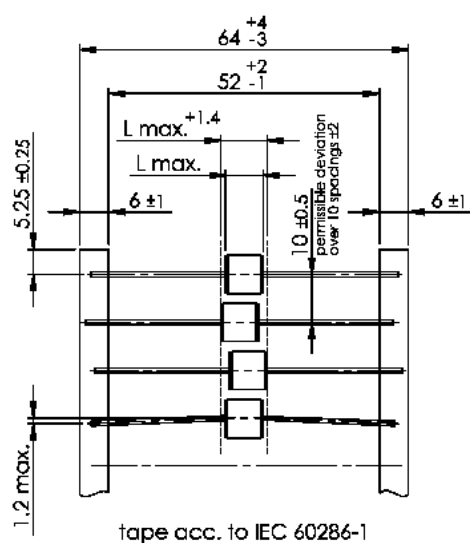
A81-H11XPD

Dimensional drawing in mm

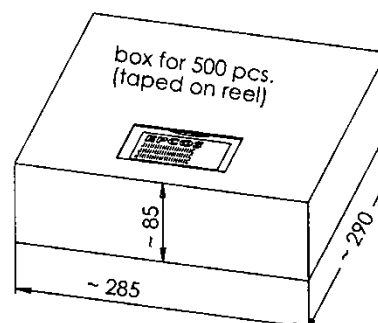
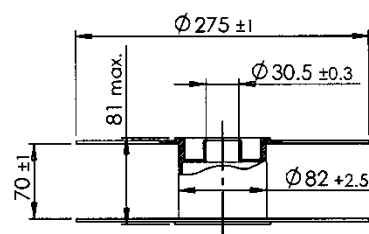
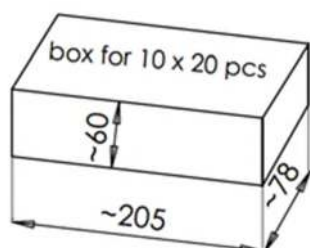


Ordering codes and packing advices

B88069X8551**S202** = 200 pcs. on 10 taped stripes B88069X8551**T502** = 500 pcs. on tape & reel

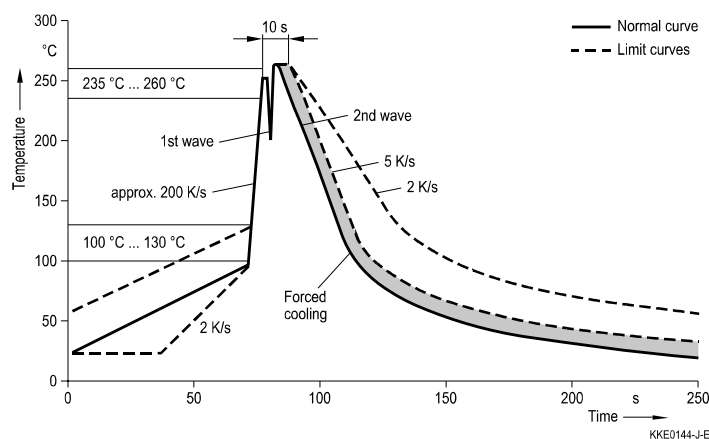


tape acc. to IEC 60286-1



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.
- 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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