

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: B88069X6551B401
Manufacturer: TDK
Package: Tray
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/tdk/b88069x6551b401.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:	L1B-A800XP1
Ordering code:	B88069X6551B401
Date:	2026-04-01
Version:	06

Surge arrester

B88069X6551B401

2-electrode arrester

L1B-A800XP1

Features

- Suitable for direct strikes
- Very fast response time
- Stable performance over life
- High insulation resistance
- RoHS-compatible

Applications

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

Electrical specifications

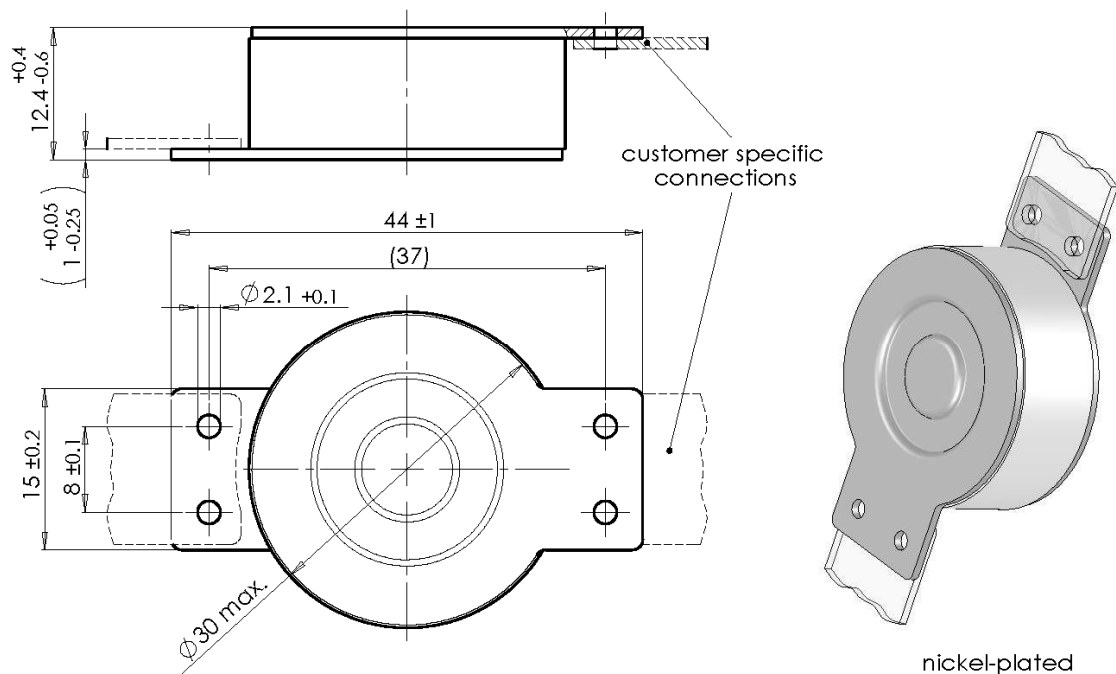
DC spark-over voltage ^{1) 2)}	> 600	V
Front of wave spark-over voltage - at 1.2/50 μ s, 6 kV, for 99% of measured values	< 1500	V
Breakdown time - typical values	< 100 < 20	ns ns
Insulation resistance at 100 V _{DC}	> 1	G Ω
Class I according to IEC 61643-11		
Max. continuous operating voltage at 50/60 Hz	U _c	264
Nominal discharge current 8/20 μ s	I _n	50
Impulse current 10/350 μ s	I _{imp}	50
Follow current at 50/60 Hz	I _f	100
AC discharge current (TOV ³⁾ at 1200 V) 1 operation 50 Hz, 0.2 s		300
Weight	~ 35	g
Operation and storage temperature	-40 ... +125	°C
Climatic category (IEC 60068-1)	40/125/21	
Marking, blue positive	TDK 800 YY 800 - Nominal voltage YY - Year of production	
Certifications	UL 1449 (E319264)	

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

²⁾ In ionized mode

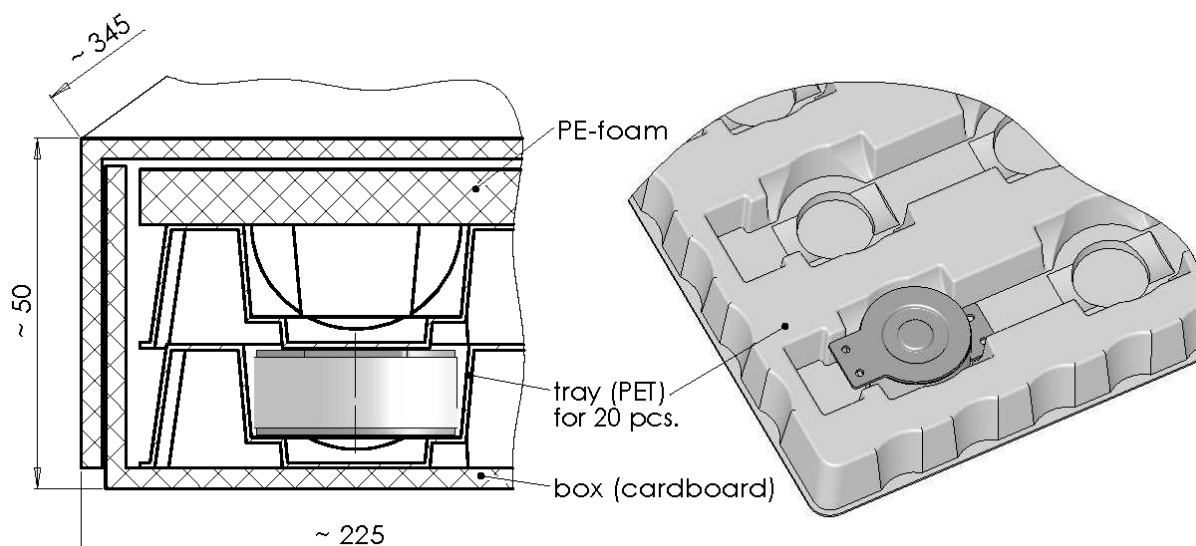
³⁾ TOV – Temporary over voltage

Dimensional drawing in mm



Ordering code and packing advice

B88069X6551B401 = 40 pcs. on trays



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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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.
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Important notes

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