

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: B88069X9361B502
Manufacturer: TDK
Package: Tray
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/tdk/b88069x9361b502.html>

Request a Quote:

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Contact Information

Email: info@antrexco.com

WhatsApp: +86-186-8066-5326

Website: <https://antrexco.com>

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:	G31-A90X
Ordering code:	B88069X9361****
Date:	2019-11-04
Version:	05

Surge arrester

B88069X9361****

2-electrode arrester

G31-A90X

Features

- Small size
- Fast response time
- Stable performance over life
- Low capacitance
- High insulation resistance
- RoHS-compatible

Applications

- ESD protection
- Applications with limited space

Electrical specifications

DC spark-over voltage ^{1) 2)}	90	V
Tolerance	±20	%
Min.	72	V
Max.	108	V
Impulse spark-over voltage		
at 100 V/μs - for 99% of measured values	< 400	V
- typical values of distribution	< 300	V
at 1 kV/μs - for 99% of measured values	< 650	V
- typical values of distribution	< 600	V
Service life ³⁾		
300 operations 8/20 μs	100	A
10 operations [5× (+) & 5× (-)] 8/20 μs	1	kA
1 operation 8/20 μs	2	kA
200 operations contact discharge ⁴⁾	500	A
Insulation resistance at 50 V _{DC}	> 1	GΩ
Capacitance at 1 MHz	< 0.5	pF
Arc voltage at 1 A	~ 10	V
Glow to arc transition current	< 1	A
Glow voltage	~ 60	V
Weight	~ 0.2	g
Operation and storage temperature	-40 ... +125	°C
Climatic category (IEC 60068-1)	40/125/21	
Marking	without	

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

²⁾ In ionized mode

³⁾ Tests according to ITU-T Rec. K. 12 and UL 497B

⁴⁾ Contact discharge parameters: 1500 pF, 10 kV, 20 Ω

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

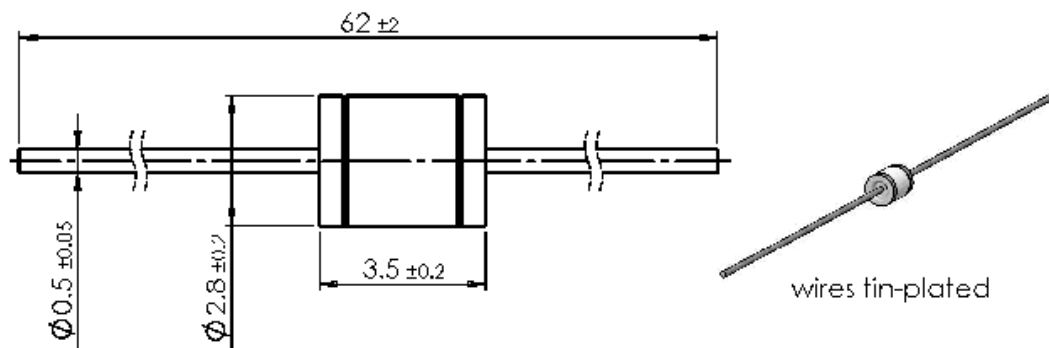
Surge arrester

B88069X9361****

2-electrode arrester

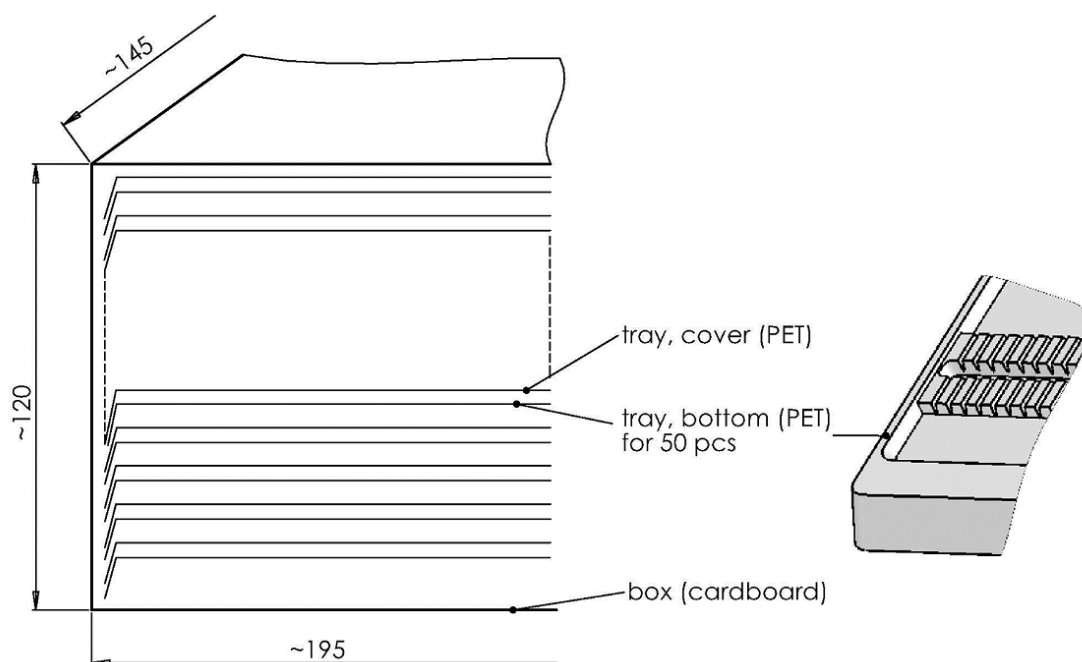
G31-A90X

Dimensional drawing in mm

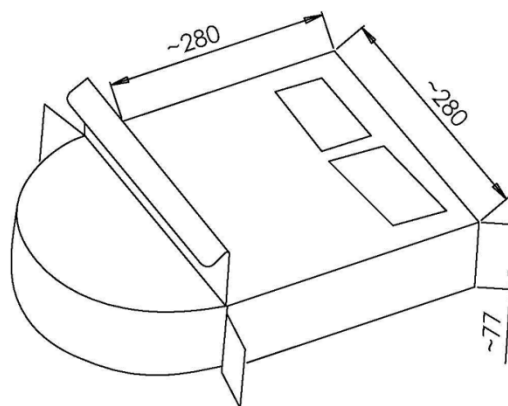
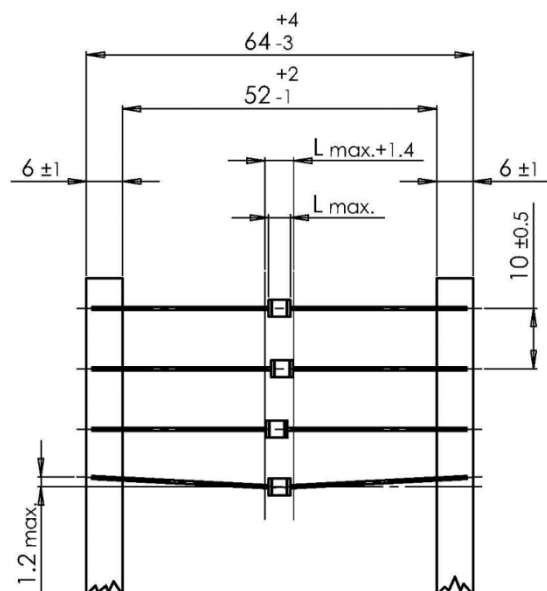


Ordering codes and packing advices

B88069X9361**B502** = 500 pcs. on trays (50 pcs. per tray)

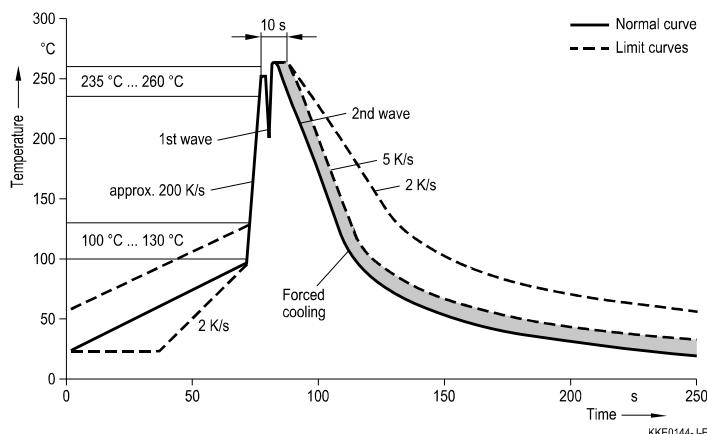


B88069X9361T103 = 1000 pcs. on tape and reel



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

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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