

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: B88069X7091S102
Manufacturer: TDK
Package: Bulk
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/tdk/b88069x7091s102.html>

Request a Quote:

[Submit RFQ for this part](#)



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Contact Information

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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:	EM470XS
Ordering code:	B88069X7091****
Date:	2026-04-01
Version:	04

Surge arrester

B88069X7091****

2-electrode arrester

EM470XS

Features

- Small size
- Fast response time
- High current handling capability
- Stable performance over life
- Low capacitance and insertion loss
- High insulation resistance
- RoHS-compatible

Applications

- Power supplies
- Antenna protection
- Air condition
- Modem
- Consumer electronics
- Dataline protection

Electrical specifications

DC spark-over voltage ^{1) 2)}	470	V
Tolerance	-15 ... +25	%
Min.	400	V
Max.	588	V
Impulse spark-over voltage		
at 100 V/μs - for 99% of measured values	< 600	V
- typical values of distribution	< 550	V
at 1 kV/μs - for 99% of measured values	< 700	V
- typical values of distribution	< 650	V
Service life		
10 operations 8/20 μs	2.5	kA
1 operation 8/20 μs	5	kA
Insulation resistance at 100 V _{DC}	> 1	GΩ
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A	~ 25	V
Glow to arc transition current	< 0.6	A
Glow voltage	~ 160	V
Weight	~ 1	g
Operation and storage temperature	-40 ... +125	°C
Climatic category (IEC 60068-1)	40/125/21	
Marking, red positive	TDK EM 470 YY EM - Series 470 - Nominal voltage YY - Year of production	
Certification	UL 497B (E163070)	

¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859²⁾ In ionized mode

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

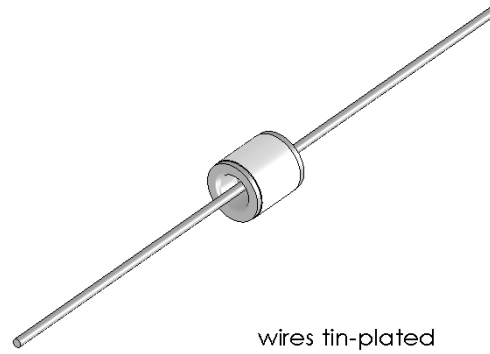
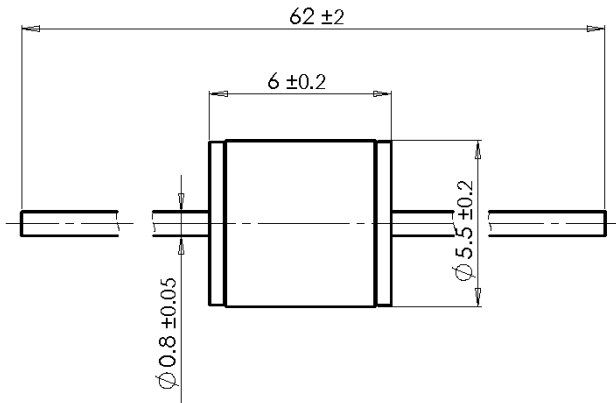
Surge arrester

B88069X7091****

2-electrode arrester

EM470XS

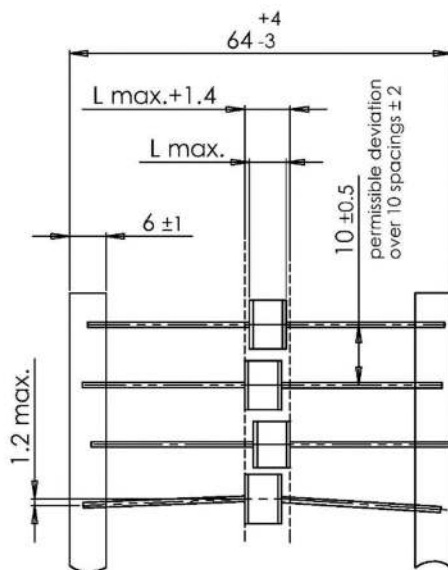
Dimensional drawing in mm



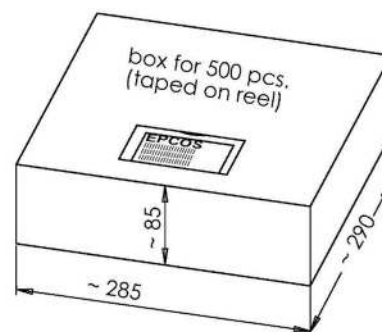
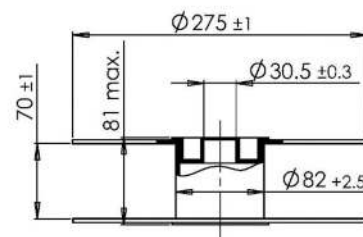
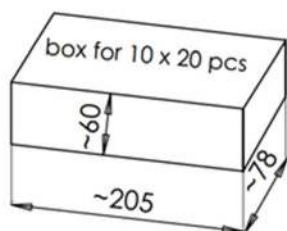
Ordering codes and packing advices

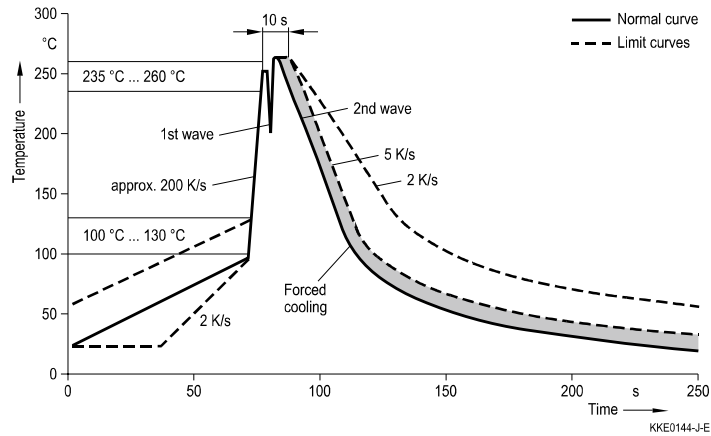
B88069X7091**S202** = 200 pcs. on 10 taped stripes

B88069X7091**T502** = 500 pcs. on tape and reel



tape acc. to IEC 60286-1



Surge arrester**B88069X7091********2-electrode arrester****EM470XS****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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