

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: B88069X5080S102
Manufacturer: TDK
Package: Strip
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/tdk/b88069x5080s102.html>

Request a Quote:

[Submit RFQ for this part](#)



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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:	EF470X
Ordering code:	B88069X5080****
Date:	2026-04-01
Version:	11

Surge arrester

B88069X5080****

2-electrode arrester

EF470X

Features

- Standard size
- High follow current capability
- Very fast response time
- Stable performance over life
- Very low capacitance
- High insulation resistance
- RoHS-compatible

Applications

- Application with high follow current
- Power supply
- Consumer electronics
- AC power line devices

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	< 700	V
	- typical values of distribution	< 600	V
at 1 kV/μs	- for 99% of measured values	< 800	V
	- typical values of distribution	< 700	V
Service life			
10 operations	50 Hz, 1 s	5	A
1 operation	50 Hz, 0.18 s (9 cycles)	65	A
10 operations	8/20 μs	5	kA
1 operation	8/20 μs	10	kA
1 operation	10/350 μs	1	kA
Max. follow current during one voltage half cycle at 50 Hz		200	A
Insulation resistance at 100 V _{DC}		> 10	GΩ
Capacitance at 1 MHz		< 1.5	pF
Arc voltage at 1 A		~ 18	V
Glow to arc transition current		< 0.3	A
Glow voltage		~ 150	V
Weight		~ 1.5	g
Operation and storage temperature		-40 ... +125	°C
Climatic category (IEC 60068-1)		40/125/21	
Marking, red positive		TDK EF 470 YY EF - Series 470 - Nominal voltage YY - Year of production	

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Surge arrester

B88069X5080****

2-electrode arrester

EF470X

Certifications

UL 497B (E163070)
UL 1449 (E319264)

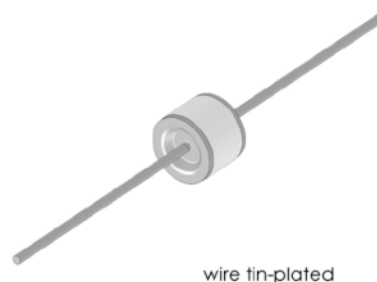
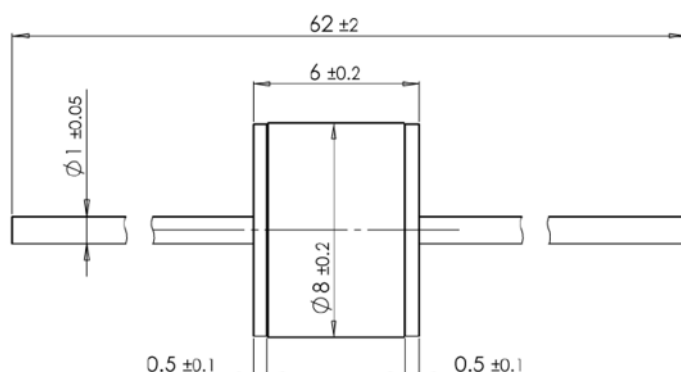


1) At delivery AQL 0.65 level II, DIN ISO 2859

2) In ionized mode

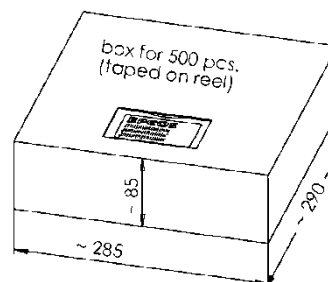
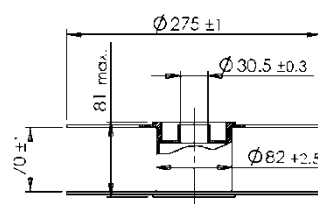
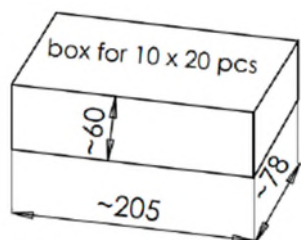
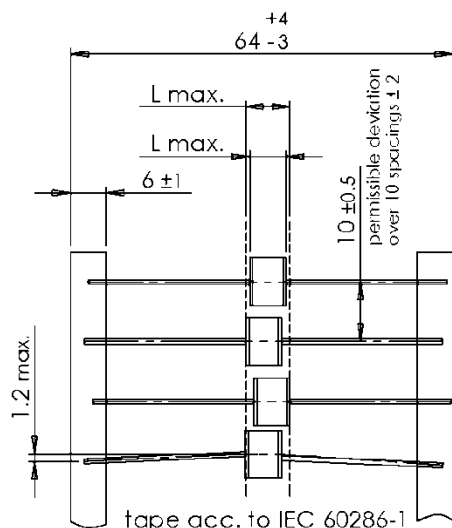
Terms in accordance with ITU-T Rec. K.12 and IEC 61643-311.

Dimensional drawing in mm



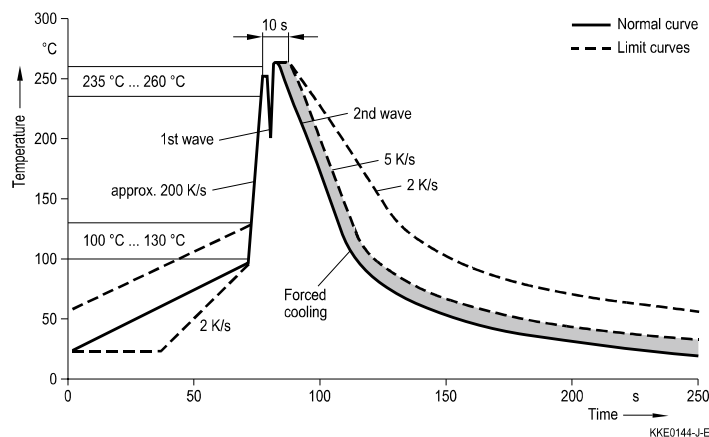
Ordering code and packing advice

B88069X5080**S202** = 200 pcs. on 10 taped stripes B88069X5080**T502** = 500 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

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.
- The follow current must be limited (see 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.
- 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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