

Surge arrester

2-electrode arrester

Ordering code: Series/Type: **EF470X**

B88069X5080****

2019-04-19 Date:

Version: 09

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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 volt	tage			
at 100 V/µs - for 99% of measured value			< 700	V
	 typical values of 	of distribution	< 600	V
at 1 kV/µs - for 99% of measu		sured values	< 800	V
	 typical values of 	of distribution	< 700	V
Service life				
10 operations	5	50 Hz, 1 s	5	Α
1 operation		50 Hz, 0.18 s (9 cycles)	65	Α
10 operations	5	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	Α
Insulation resistance at 100 V _{DC}			> 10	$G\Omega$
Capacitance at 1 MHz			< 1.5	pF
Arc voltage at 1 A			~ 18	V
Glow to arc transition co	urrent		< 0.3	Α
Glow voltage		~ 150	V	
Weight			~ 1.5	g
Operation and storage temperature			-40 +125	°C
Climatic category (IEC 60068-1)			40/125/21	4
Marking, red positive			EPCOS EF 470 YY O EF - Series 470 - Nominal voltage YY - Year of production O - Non radioactive	

Continued on next page



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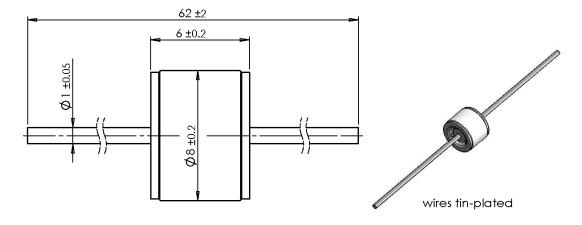
Certifications

UL 497B (E163070) UL 1449 (E319264)



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

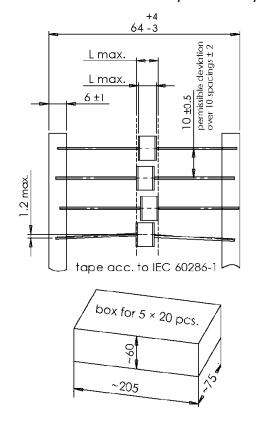
Dimensional drawing in mm

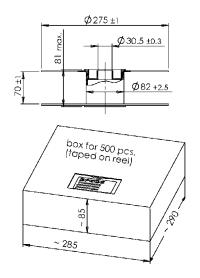


Ordering code and packing advice

B88069X5080**\$102** = 100 pcs. on 5 taped stripes

B88069X5080**T502** = 500 pcs. on tape and reel





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PPD AB PD / PPD AB PM

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

²⁾ In ionized mode

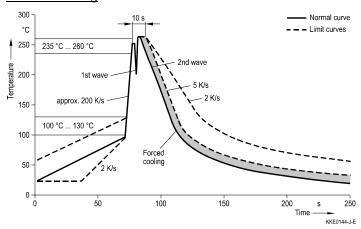


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Soldering parameter

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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B88069X5080S102 B88069X5080T502



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