

Surge arrester

2-electrode arrester

Series/Type: A81-A470X

Ordering code: B88069X6441****

Date: 2019-06-27

Version: 02

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Surge arrester B88069X6441****

2-electrode arrester A81-A470X

Features

- Standard size
- Fast response time
- High current rating
- Stable performance over life
- Very low capacitance
- High insulation resistance
- RoHS-compatible

Applications

- AC power line devices
- Consumer electronics
- Power supply

Electrical specifications

Electrical specification	····		
DC spark-over voltage Tolerance Min. Max.	1) 2)	470 ±20 376 564	V % V V
Impulse spark-over vol	tage		
• •	·		V
at 1 kV/µs	at 1 kV/µs - for 99% of measured values - typical values of distribution		V V
Service life			
10 operations	50 Hz, 1 s	20	Α
1 operation	50 Hz, 0.18 s (9 cycles)	100	Α
10 operations	8/20 µs	20	kA
1 operation	8/20 µs	25	kA
1 operation	10/350 μs	2.5	kA
Insulation resistance at	> 10	GΩ	
Capacitance at 1 MHz	< 1.5	pF	
Arc voltage at 1 A Glow to arc transition c Glow voltage	~ 10 < 0.5 ~ 60	V A V	
Weight	~ 2.5	g	
Operation and storage	-40 + 125	°C	
Climatic category (IEC 60068-1)		40/125/21	
Marking, blue negative		EPCOS 470 YY O 470 - Nominal voltage YY - Year of production O - Non radioactive	
Certification	UL 497B (E163070)	<i>71</i> 2°	

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

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

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²⁾ In ionized mode

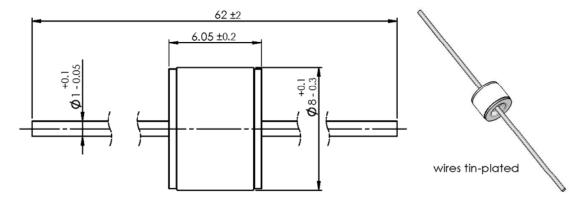


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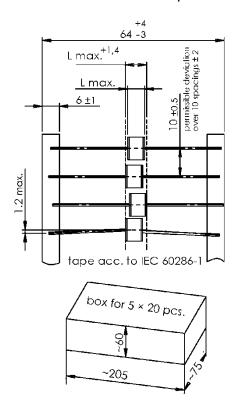
Dimensional drawing in mm

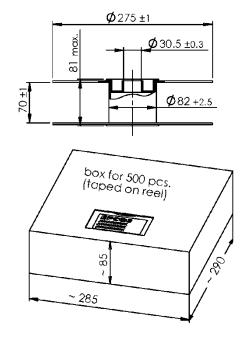


Ordering codes and packing advices

B88069X6441**\$102** = 100 pcs. on 5 taped stripes

B88069X6441**T502** = 500 pcs. on tape & reel





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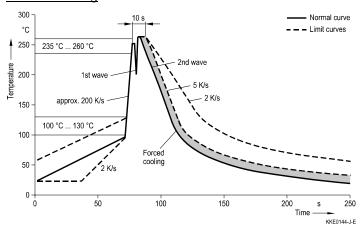


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Soldering parameter

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.
- 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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