

Surge arrester

2-electrode arrester

Series/Type: EF1500X8S Ordering code: B88069X8741****

Date: 2019-07-11

Version: 04

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2-electrode arrester EF1500X8S

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

Liectrical specificat	10113			
DC spark-over voltag	e ^{1) 2)}		1500	V
Tolerance			±20	%
Min.			1200	V
Max.			1800	V
Impulse spark-over ve	oltage			
at 100 V/µs	- for 99% of me	asured values	< 1800	V
	 typical values 	of distribution	< 1700	V
at 1 kV/µs	- for 99% of measured values		< 2000	V
•	 typical values of distribution 		< 1800	V
Service life				
10 operation	S	50 Hz, 1 s	5	Α
1 operation		50 Hz, 0.18 s (9 cycles)	35	Α
10 operations [5× (+) & 5× (–)] 8/20 μs			5	kA
1 operation		8/20 µs	10	kA
Max. follow current during one voltage half cycle at 50 Hz 3)			200	А
Insulation resistance at 100 V _{DC}			> 10	GΩ
Capacitance at 1 MHz			< 1.5	pF
Arc voltage at 1 A	~ 30	V		
Glow to arc transition	< 0.3	Α		
Glow voltage			~ 90	V
Weight			~ 1.5	g
Operation and storage temperature			-40 + 125	°C
Climatic category (IEC 60068-1)			40/125/21	-
Marking, red positive			EPCOS EF 1500 YY O	
5 / 1			EF - Series	
			1500 - Nominal voltage YY - Year of production	
			O - Non radioactive	ı
Certification			UL 1449 (E319264)	c FU °us
			, , ,	

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

³⁾ Follow current has to be limited by an appropriate varistor in series.

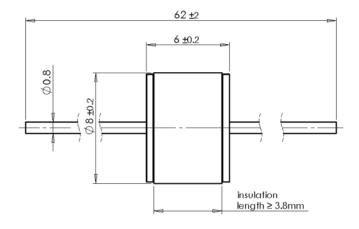


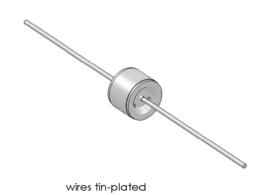
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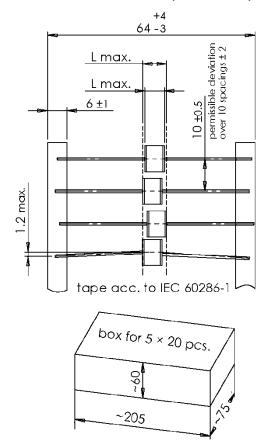
Dimensional drawing in mm

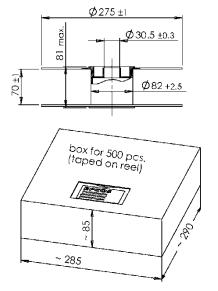




Ordering codes and packing advices

B88069X8741**S102** = 100 pcs. on 5 taped stripes B88069X8741**T502** = 500 pcs. on tape and reel





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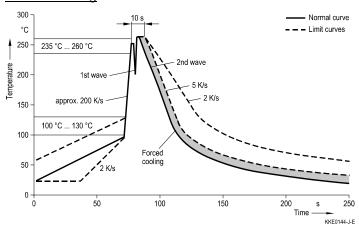


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Soldering parameter

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