

Surge arrester

2-electrode arrester

Ordering code: Series/Type: ES75XPA

B88069X4201B502

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Version: 03

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2-electrode arrester ES75XPA

Features

- Very small size
- Very fast response time
- Stable performance over life
- Very low capacitance
- High insulation resistance
- RoHS-compatible

Applications

- Modem
- XDSL-splitter
- Data lines
- Tuner
- Antenna

Electrical specifications

Liectrical specifications			
DC spark-over voltage 1) 2)		75	V
Tolerance		±25	%
Min.		57	V
Max.		93	V
Impulse spark-over voltage			
at 100 V/µs - for 99% of measured values		< 500	V
 typical values of distribution 		< 450	V
at 1 kV/µs - for 99% of measured values		< 600	V
 typical values of distribution 		< 550	V
Service life			
10 operations	50 Hz, 1 s	2	Α
10 operations [5x (+) & 5x (-)]	8/20 µs	2.5	kA
1 operation	8/20 µs	4	kA
Insulation resistance at 50 V _{DC}		> 1	$G\Omega$
Capacitance at 1 MHz		< 1	pF
Arc voltage at 1 A		~ 10	V
Glow to arc transition current		< 0.5	Α
Glow voltage		~ 40	V
Weight		~ 0.3	g
Operation and storage temperature		-40 + 125	°C
Climatic category (IEC 60068-1)		40/125/21	
Marking, red positive		EPCOS ES 75 YY O	
		ES - Series	
		75 - Nominal volta YY - Year of produ	
		O - Non radioacti	
Certification		UL 497B (E163070) 71 °

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

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

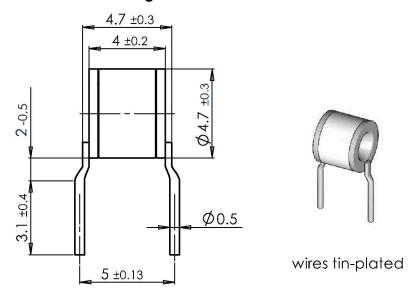
²⁾ In ionized mode



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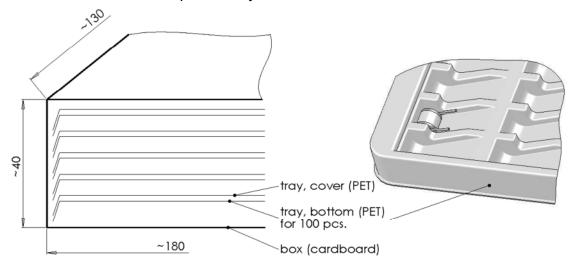
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Dimensional drawing in mm



Ordering codes and packing advices

B88069X4201**B502** = 500 pcs. on trays



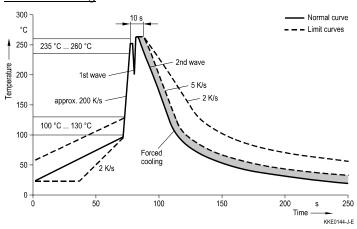


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Soldering parameter

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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