

Surge arrester

2-electrode arrester

Version:

 Series/Type:
 N80-A90XSMD

 Ordering code:
 B88069X4791T602

 Date:
 2017-01-12

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B88069X4791T602

N80-A90XSMD

V %

V

V

V

V

V V

А

А

kΑ

kΑ

Surge arrester

2-electrode arrester

Features

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

Electrical specifications

Applications

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

DC spark-over voltage ^{1) 2)} 90 Tolerance ±20 Min. 72 Max. 108 Impulse spark-over voltage at 100 V/µs - for 99% of measured values < 500 < 450 - typical values of distribution at 1 kV/µs - for 99% of measured values < 600 - typical values of distribution < 550 Service life 10 operations 10 50 Hz, 1 s 1 operation 50 Hz; 0.18 s (9 cycles) 65 10 operations 8/20 µs 10 1 operation 8/20 µs 12

1 operation	10/350 µs	1	kA		
300 operations	10/1000 µs	100	А		
Insulation resistance at 50 V_{DC}	> 10	GΩ			
Capacitance at 1 MHz	< 1.5	pF			
Arc voltage at 1 A	~ 15	V			
Glow to arc transition current	~ 0.6	A			
Glow voltage		~ 60	V		
Weight		~ 1.5	g		
Operation and storage temper	-40 +125	°C			
Climatic category (IEC 60068-	1)	40/125/21			
Marking, red negative		EPCOS 90 YY O			
- •		90 - Nominal voltage			
		YY - Year of production			
		O - Non radioactive			

Certification

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

PPD AB PD / PPD AB PM

FL

UL 497B (E163070)

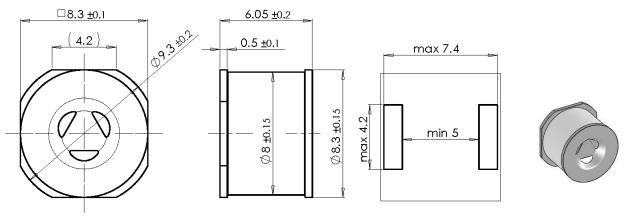


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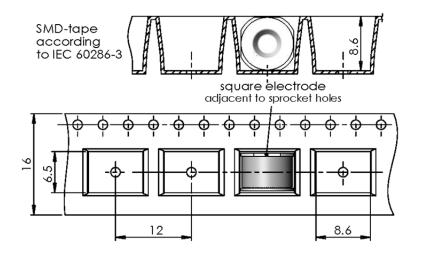
Dimensional drawing in mm



pad outline acc. to IPC-7351 tin-plated (producibility level A; density lecel C)

Ordering code and packing advice

B88069X4791**T602** = 600 pcs. on SMD-tape



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Surge arrester

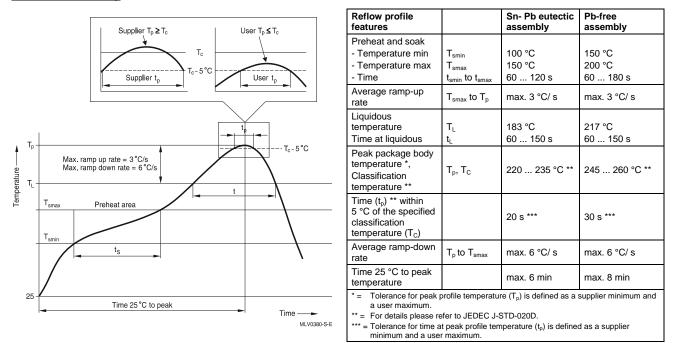
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Soldering parameter

Reflow soldering



Surface mounted components (SMD) may exhibit a temporary increase in the DC spark-over voltage after the solder reflow process. The components will recover within 24 hours. There is no quality defect nor change in protection levels during the temporary change in DC spark-over voltage.

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.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.
- The shown SMD pad dimensions represent a safe way to mount the arrester and are a recommendation of the manufacturer. During the reflow process it must be assured that no solder material reduces the insulation distance between the pads below the arrester.
- SMD surge arresters should be soldered within 24 month after shipment.

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