

Surge arrester

2-electrode arrester

Version:

 Series/Type:
 N80-A90XSMD

 Ordering code:
 B88069X4791T602

 Date:
 2017-01-12

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B88069X4791T602

N80-A90XSMD

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

Applications

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

Electrical specifications

DC spark-over voltage ^{1) 2}	90	V			
Tolerance	±20	%			
Min.	72	V			
Max.	108	V			
Impulse spark-over voltag	le				
at 100 V/µs - f	< 500	V			
- t	ypical values of distribution	< 450	V		
at 1 kV/µs – f	or 99% of measured values	< 600	V		
t	ypical values of distribution	< 550	V		
Service life					
10 operations	50 Hz, 1 s	10	А		
1 operation	50 Hz; 0.18 s (9 cycles)	65	А		
10 operations	8/20 µs	10	kA		
1 operation	8/20 µs	12	kA		
1 operation	10/350 µs	1	kA		
300 operations	10/1000 µs	100	А		
Insulation resistance at 50	> 10	GΩ			
Capacitance at 1 MHz		< 1.5	pF		
Arc voltage at 1 A		~ 15	V		
Glow to arc transition curr	~ 0.6	А			
Glow voltage	~ 60	V			
Weight		~ 1.5	g		
Operation and storage ter	-40 +125	°C			
Climatic category (IEC 60	40/125/21				
Marking, red negative	EPCOS 90 YY 090- Nominal voltageYY- Year of productionO- Non radioactive				
Certification		UL 497B (E163070)			

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



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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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⊗TDK

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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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