

# Surge arrester

2-electrode arrester

Series/Type:A80-C90XSMDOrdering code:B88069X1630T602Date:0047.00.40

Date: Version: 2017-03-16 13

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B88069X1630T602

A80-C90XSMD

## 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

- Consumer electronic
- Alarm systems

		00	1.4
DC spark-over voltage <sup>1) 2)</sup>		90	V
Tolerance Min.		±20	% V
		72	
Max.		108	V
Impulse spark-over voltage			
at 100 V/µs - for 99% of measured values - typical values of distribution		< 500	V
		< 450	V
I I I I I I I I I I I I I I I I I I I	neasured values	< 600	V
- typical value	es of distribution	< 550	V
Service life			
10 operations	50 Hz, 1 s	20	А
1 operation	50 Hz; 0.18 s (9 cycles)	100	А
10 operations [5× (+) & 5× (–)] 8/20 μs		20	kA
1 operation	8/20 µs	25	kA
1 operation	10/350 µs	5	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		~ 10	V
Glow to arc transition current		~ 0.5	А
Glow voltage		~ 60	V
Weight		~ 1.5	g
Operation and storage temperature		-40 +125	°C
Climatic category (IEC 60068-1)		40/125/21	
Marking, blue negative		EPCOS 90 YY 090- Nominal voltageYY- Year of productioO- Non radioactive	n
Certification		UL 497B (E163070)	77

<sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859

<sup>2)</sup> In ionized mode

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

#### PPD AB PD / PPD AB PM

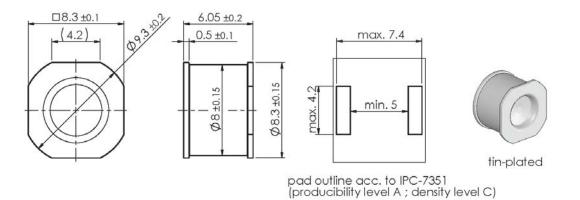


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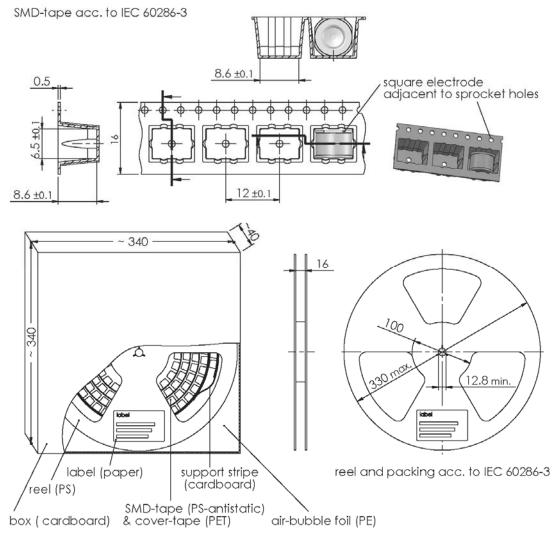
B88069X1630T602 A80-C90XSMD

### Dimensional drawing in mm



## Ordering code and packing advice

B88069X1630T602 = 600 pcs. on SMD-tape & reel



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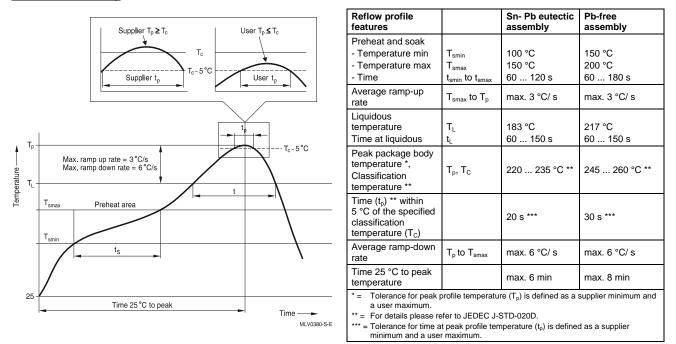
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#### Soldering parameter

#### 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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Release 2018-10