

## Surge arrester

3-electrode arrester

Version:

 Series/Type:
 T90-A90XSMD

 Ordering code:
 B88069X2331T902

 Date:
 2021-01-22

09

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B88069X2331T902

**T90-A90XSMD** 

### Surge arrester

#### **3-electrode arrester**

#### **Features**

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

#### - 4 m<sup>2</sup> - - - I .... . . . ----

### Applications

- Modem .
- Data lines

ed values	90 ±20 72 108	V % V V
	72 108	V
	108	
	450	
	450	
	< 450	V
		V
		V
stribution	< 500	V
,		А
	-	А
•	-	kA
•		kA
•	2	kA
10/1000 µs <sup>4)</sup>	200	А
	> 1	GΩ
	< 1.5	pF
	< 0.2	μs
	~ 15	V
		А
	~ 70	V
	~ 0.8	g
	-55 +125	°C
	55/125/21	
	<b>EPCOS</b> 90 YY O 90 - Nominal voltage YY - Year of production O - Non radioactive	
	stribution ed values stribution 50 Hz; 1 s <sup>4)</sup> 50 Hz; 0.18 s (9 cycl.) <sup>4)</sup> 8/20 µs <sup>4)</sup> 8/20 µs <sup>4)</sup> 10/350 µs <sup>4)</sup> 10/1000 µs <sup>4)</sup>	ed values stribution< 600 < 50050 Hz; 1 s $^{4)}$ 10 40 8/20 µs $^{4)}$ 8/20 µs $^{4)}$ 10 20 20 10/350 µs $^{4)}$ 10/1000 µs $^{4)}$ 200> 1< 1.5

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#### PPD AB PD / PPD AB PM

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#### T90-A90XSMD

Certifications	UL 497B (E163070)	<b>A</b> 1°
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<sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859

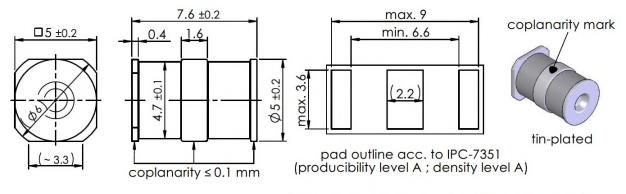
- <sup>2)</sup> In ionized mode
- <sup>3)</sup> Tip or ring electrode to center electrode

<sup>4)</sup> Total current through center electrode, half value through tip respectively ring electrode.

- <sup>5)</sup> Test according to ITU-T Rec. K.12
- <sup>6)</sup> DC spark-over voltage may exceed limit of +/-25% but will continue to protect without venting

Terms in accordance with ITU-T Rec. K.12; IEC 61663 and IEC 61643-311.

#### Dimensional drawing in mm



\* for reflow soldering, coplanarity mark upwards



B88069X2331T902

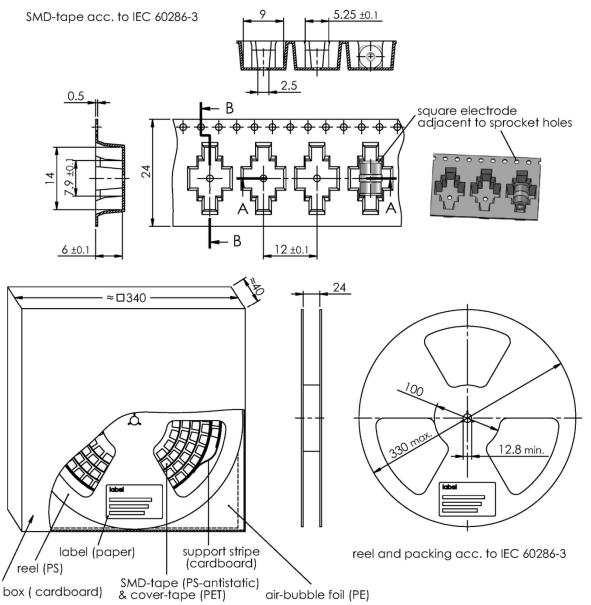
**T90-A90XSMD** 

#### Surge arrester

#### 3-electrode arrester

#### Ordering code and packing advice

B88069X2331**T902** = SMD-tape with 900 pcs.



# ⊗TDK

#### Surge arrester

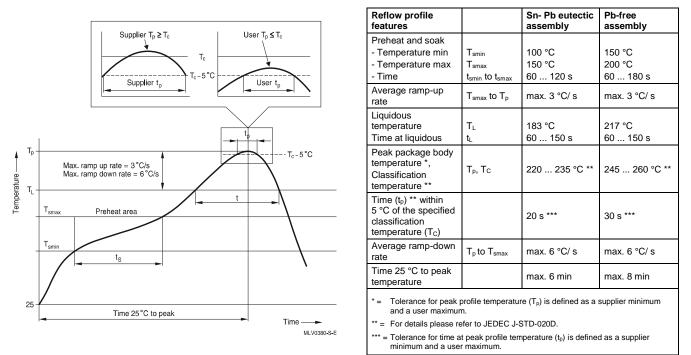
#### **3-electrode arrester**

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T90-A90XSMD

#### **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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