

# Surge arrester

3-electrode arrester

Series/Type:EZ0-A90XSMDOrdering code:B88069X6051T902Version/Date:Issue 04 / 2011-10-21

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## Surge arrester

### **3-electrode arrester**

# B88069X6051T902 EZ0-A90XSMD

### Features

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

### **Electrical specifications**

### Applications

- Branch exchange (MDF)
- Line protection
- Station protection

DC spark-over voltage <sup>1) 2) 3)</sup>			90 ± 20	V %
Impulse spark-over voltage <sup>3)</sup> at 100 V/µs - for 99 % of measured values - typical values of distribution		< 450 < 350	V V	
at 1 kV/µs - for 99 % of measured values - typical values of distribution			< 600 < 500	V V
Service life 10 operations 1 operation		50 Hz, 1 s <sup>4)</sup> 50 Hz, 0.18 s <sup>4)</sup>	10 10	AA
<ul> <li>10 operations [5x (+) &amp; 5x (-)]</li> <li>1 operation</li> <li>300 operations (alternating polarity)</li> </ul>		8/20 µs <sup>4)</sup> 10/350 µs <sup>4)</sup> 10/1000 µs <sup>4)</sup>	10 1 200	kA kA A
Insulation resistance at 50 $V_{DC}$ <sup>3)</sup>			> 1	GΩ
Capacitance at 1 MHz <sup>3)</sup>			< 1.5	pF
Transverse delay time <sup>5)</sup>			< 0.2	μs
Arc voltage at 1 A Glow to arc transition current Glow voltage			~ 10 ~ 1 ~ 80	V A V
Weight			~ 1.0	g
Operation and storage temperature			-40 +90	C
Climatic category (IEC 60068-1)			40/ 90/ 21	
Marking, blue negative			EPCOS EZ 90 YY OEZ- Series90- Nominal voltageYY- Year of productionO- Non radioactive	

Remarks on next page above

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### Surge arrester

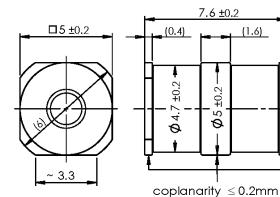
### **3-electrode arrester**

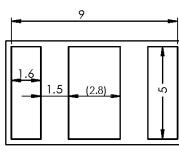
### B88069X6051T902 EZ0-A90XSMD

- 1) 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

Terms in accordance with ITU-T Rec. K.12 and IEC 61663-2

### Dimensional drawing in mm





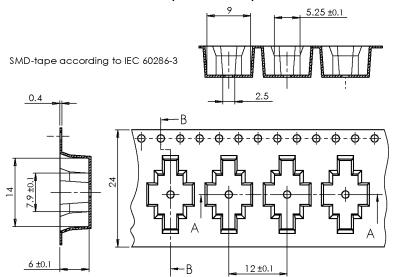


recommended pad outline

tin-plated

### Ordering code and packing advice

B88069X...**T902** = SMD-tape with 900 pcs





### **Cautions and warnings**

- Surge arresters must not be operated directly in power supply networks.
- Surge arresters may become hot in case of longer periods of current stress (danger of burning).
- Surge arresters may be used only within their specified values. In case of overload, the head contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

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