

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 ^{1) 2) 3)}			90 ± 20	V %
Impulse spark-over voltage ³⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution			< 450 < 350	VVV
at 1 kV/µs	 for 99 % of measured values typical values of distribution 		< 600 < 500	V V
Service life10 operations $50 \text{ Hz}, 1 \text{ s}^{4)}$ 1 operation $50 \text{ Hz}, 0.18 \text{ s}^{4)}$		10 10	A A	
10 operations [5x (+) & 5x (-)] 8/20 μs 4) 1 operation 10/350 μs 4) 300 operations (alternating polarity) 10/1000 μs 4)		10 1 200	kA kA A	
Insulation resistance at 50 V_{DC} ³⁾			> 1	GΩ
Capacitance at 1 MHz ³⁾			< 1.5	pF
Transverse delay time ⁵⁾			< 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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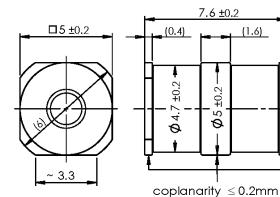
- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- ²⁾ In ionized mode
- ³⁾ Tip or ring electrode to center electrode
- ⁴⁾ Total current through center electrode, half value through tip respectively ring electrode.

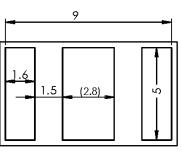
EPCOS

⁵⁾ 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





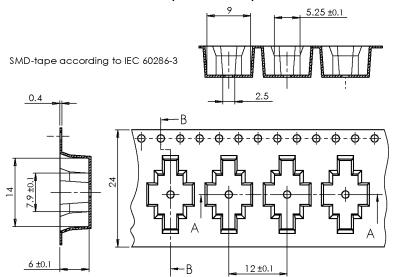


recommended pad outline

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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