



Surge arrester

3-electrode arrester

Series/Type: EZ0-A90XSMD
Ordering code: B88069X6051T902
Version/Date: Issue 04 / 2011-10-21

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3-electrode arrester

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

Applications

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

Electrical specifications

DC spark-over voltage ^{1) 2) 3)}	90 ± 20	V %
Impulse spark-over voltage ³⁾		
at 100 V/μs - for 99 % of measured values	< 450	V
- typical values of distribution	< 350	V
at 1 kV/μs - for 99 % of measured values	< 600	V
- typical values of distribution	< 500	V
Service life		
10 operations 50 Hz, 1 s ⁴⁾	10	A
1 operation 50 Hz, 0.18 s ⁴⁾	10	A
10 operations [5x (+) & 5x (-)] 8/20 μs ⁴⁾	10	kA
1 operation 10/350 μs ⁴⁾	1	kA
300 operations (alternating polarity) 10/1000 μs ⁴⁾	200	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	~ 10	V
Glow to arc transition current	~ 1	A
Glow voltage	~ 80	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 O EZ - Series 90 - Nominal voltage YY - Year of production O - Non radioactive	

Remarks on next page above

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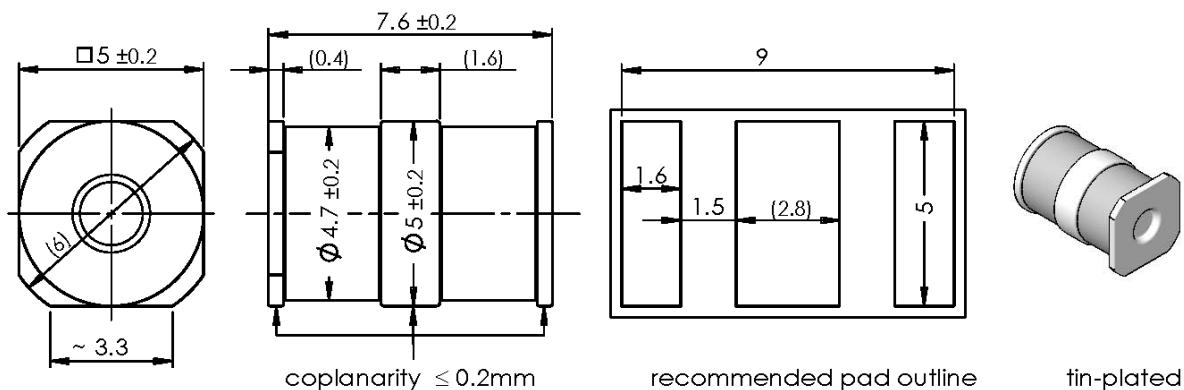
3-electrode arrester

EZ0-A90XSMD

- 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.
- 5) Test according to ITU-T Rec. K.12

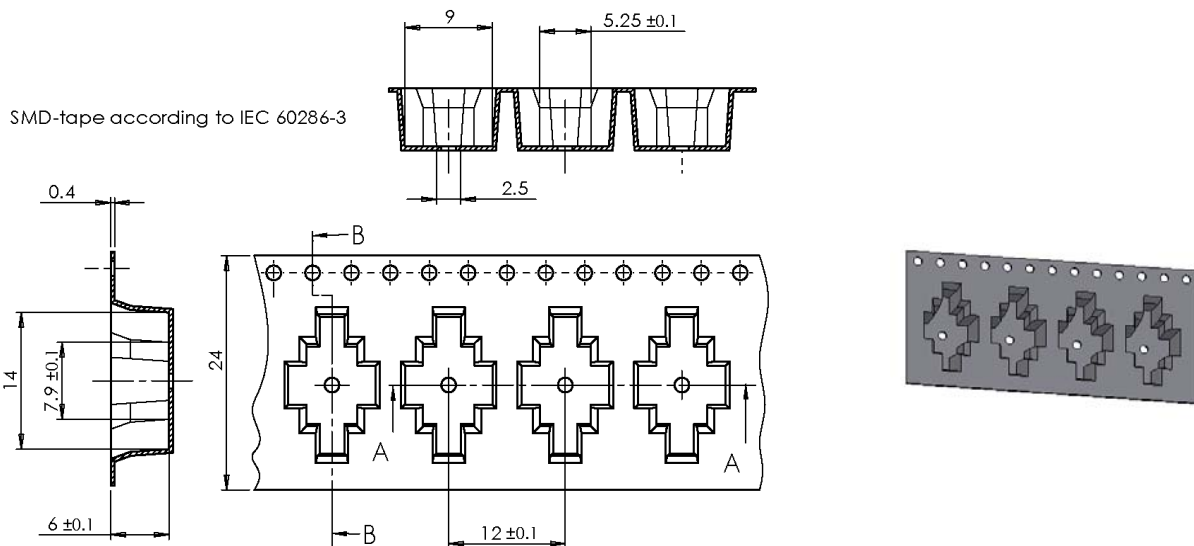
Terms in accordance with ITU-T Rec. K.12 and IEC 61663-2

Dimensional drawing in mm



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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