

Surge arrester

3-electrode arrester

Series/Type: T90-A90XSMD Ordering code: B88069X2331T902

Version/Date: Issue 04 / 2007-11-14

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Surge arresterB88069X2331T9023-electrode arresterT90-A90XSMD

Features	Applications
Very small size	■ Modem
 Fast response time 	 Data lines
 High current rating 	
 Stable performance over life 	
 Extremely low capacitance 	
 High insulation resistance 	
 Excellent SMD handling 	
 RoHS-compatible 	

Electrical specifications

DC spark-over voltage 1) 2) 4)		90 ± 20	V %
Impulse spark-over vo at 100 V/µs	oltage ⁴⁾ - for 99 % of measured values - typical values of distribution	< 550 < 450	V
at 1 kV/μs	for 99 % of measured valuestypical values of distribution	< 700 < 600	V
Service life			
10 operations	s 50 Hz; 1 s ⁵⁾	5	A _{rms}
1 operation	50 Hz; 0.18 s (9 cycles) 5)	10	A_{rms}
10 operations	s 8/20 μs ⁵⁾	5	kA
1 operation	8/20 μs ⁵⁾	10	kA
1 operation	10/350 μs ⁵⁾	1	kA
Insulation resistance	at 50 V _{dc} ⁴⁾	> 1	$G\Omega$
Capacitance at 1 MHz	z ⁴⁾	< 1.5	pF
Transverse delay time	e ³⁾	< 0.2	μs
Arc voltage at 1 A		~ 10	V
Glow to arc transition current		~ 1	A V
Glow voltage		~ 60	
Weight		~ 1.2	g
Operation and storage temperature		-40 + 90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, blue negative EPCOS 90 YY O 90 - Nominal voltag YY - Year of product O - Non radioactive		tion	

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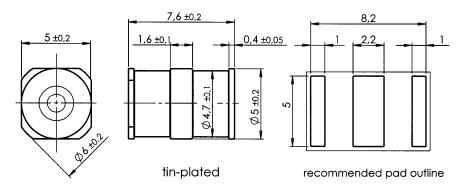
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3-electrode arrester T90-A90XSMD

- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Test according to ITU-T Rec. K.12
- 4) Tip or ring electrode to center electrode
- ⁵⁾ Total current through center electrode, half value through tip respectively ring electrode.

Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

Dimensional drawing



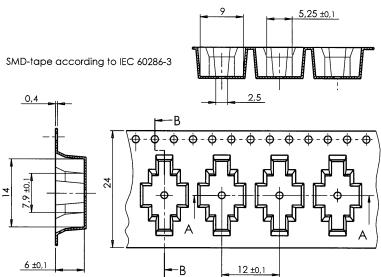
Not to scale

Dimensions in mm

Non controlled document

Packing advice

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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