

Surge arrester

3-electrode arrester

Series/Type: Ordering code: T30-A90XG

B88069X3120T702 Version/Date: Issue 04 / 2007-10-31



Surge arrester B88069X3120T702

3-electrode arrester T30-A90XG

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

Electrical specifications

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DC spark-over voltage ^{1) 2) 3)} DC spark-over voltage ^{3) 5)}		72 108 72 180	V
DC spark-over voltage ^{2) 4)}		72 230	V
Impulse spark-over v	voltage		
at 1 kV/µs	- for 99 % of measured values 3)	< 450	V
	- for 50 % of measured values 3)	< 350	V
at 1 kV/µs	- for 99 % of measured values 4)	< 700	V
	- for 50 % of measured values 4)	< 600	V
Insulation resistance at 50 V _{dc} ³⁾		> 10	$G\Omega$
Capacitance at 1 MHz ³⁾		< 1.5	pF
Service life			
10 operation	•	5	A_{rms}
10 operation	ns 50 Hz; 1 s ⁶⁾	10	A _{rms}
1 operation	· · · · · · · · · · · · · · · · · · ·	30	A_{rms}
10 operation	•	5	kA
10 operation	•	10	kA
1 operation	•	10	kA
1 operation	n 10/350 µs ⁶⁾	2	kA
After service life			
Insulation resistance at 50 V _{dc} ^{3) 8)}		> 10	MΩ
DC spark-over voltage ^{2) 3)}		65 150	V
DC spark-over voltage ^{2) 4)}		65 250	V
• •	irk-over voltage	700	
at 1 kV/µs	- for 99 % of measured values ³⁾ - for 99 % of measured values ⁴⁾	< 700 < 900	V
		< 900	V
Activation after reflov	_		
1 operation	$U_{RMS} = 600 \text{ V}; 1 \text{ s}$	2	A
Weight		~ 1.2	g
Operation and storage temperature		-40 + 90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
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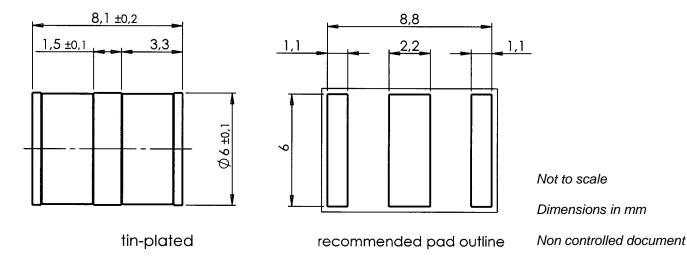
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EPCOS 90 YY O Marking, blue negative 90 - Nominal voltage - Year of production YY - Non radioactive 0

Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE 0845

Dimensional drawing



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At delivery AQL 0.65 level II, DIN ISO 2859

²⁾ In ionized mode

³⁾ Tip or ring electrode to center electrode

⁴⁾ Tip to ring electrode

⁵⁾ After 1 day storage in darkness for 80 % of tubes
6) Total current through center electrode, half value through tip respectively ring electrode

⁷⁾ Total current through center electrode, same value through tip respectively ring electrode

⁸⁾ For 80 % of tubes

⁹⁾ Total current from ring to tip electrode

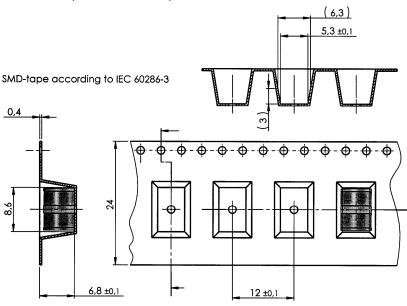


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Packing advice

T702 = 700 pcs on SMD tape



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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