

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Surge arrester

3-electrode arrester

Series/Type: T30-A90XG Ordering code: B88069X312

Ordering code: 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

=iootiioai opooiiioati	.01.0		
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	roltage		
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	GΩ
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	ns 8/20 μs ⁷⁾	5	kA
10 operation	•	10	kA
1 operation	n 8/20 μs ⁶⁾	10	kA
1 operation	n 10/350 μs ⁶⁾	2	kA
After service life	20.00		
Insulation resistance at 50 V _{dc} ^{3) 8)}		> 10	$M\Omega$
DC spark-over voltage ^{2) 3)}		65 150	V
DC spark-over voltage ^{2) 4)}		65 250	V
•	rk-over voltage	700	.,
at 1 kV/μs	 for 99 % of measured values ³⁾ for 99 % of measured values ⁴⁾ 	< 700 < 900	V
		< 300	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	
		<u> </u>	

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B88069X3120T702 Surge arrester

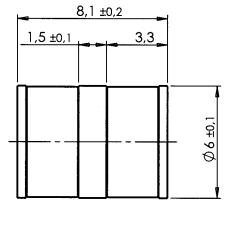
T30-A90XG 3-electrode arrester

EPCOS 90 YY O Marking, blue negative

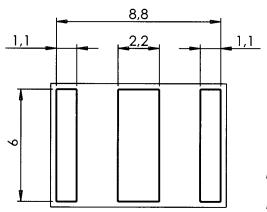
90 - Nominal voltage - Year of production YY - Non radioactive 0

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

Dimensional drawing



tin-plated



recommended pad outline



Dimensions in mm

Non controlled document

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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

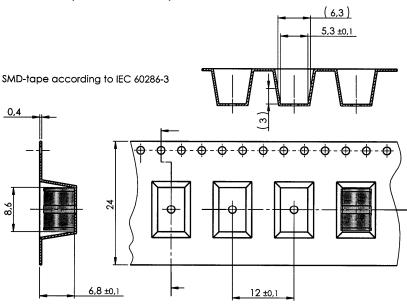


Surge arrester B88069X3120T702

3-electrode arrester T30-A90XG

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.



Important notes

The following applies to all products named in this publication:

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