

# Surge arrester

2-electrode arrester

S30-A90X

Series/Type: Ordering code: B88069X9231T203

Version/Date: Issue 01 / 2010-03-23



Surge arrester B88069X9231T203

## 2-electrode arrester \$30-A90X

#### **Features**

- Extremely small size
- Very fast response time
- Stable performance over life
- Very low capacitance
- High insulation resistance
- Excellent SMD handling
- RoHS-compatible

## **Applications**

- PCI cards
- Modem
- Splitter
- Line cards
- Applications with limited space

## **Electrical specifications**

DC spark-over voltage 1) 2)			90 ± 30	V %
Impulse spark-over voltage at 100 V/µs - for 99 % of measured values - typical values of distribution			< 500 < 400	V
at 1 kV/µs	V/µs - for 99 % of measured values - typical values of distribution		< 600 < 500	V
Service life 3) 4)				
10 operations		50 Hz, 1 s	2	Α
100 operations		8/20 μs	100	Α
10 operations [5x (+) & 5x (-)] 8/20 μs			2	kA
100 operations [50x (+) & 50x (-)]		10/1000 μs	10	Α
Insulation resistance at 50 V <sub>DC</sub>			> 1	$G\Omega$
Capacitance at 1 MHz			< 1	pF
Arc voltage at 1 A Glow to arc transition current Glow voltage			~ 10 < 1.0 ~ 60	V A V
Weight			~ 0.2	g
Operation and storage temperature			-40 +90	$\mathcal C$
Climatic category (IEC 60068-1)			40/ 90/ 21	
Marking			without	

<sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859

Impulse spark-over voltage at 1 kV/ $\mu$ s < 700 V

Terms and current waveforms in accordance with ITU-T Rec. K. 12; IEC 61643-21 and DIN 57845 / VDE0845

<sup>2)</sup> In ionized mode

Tests according to ITU-T Rec. K. 12 and UL 497B

After service life:

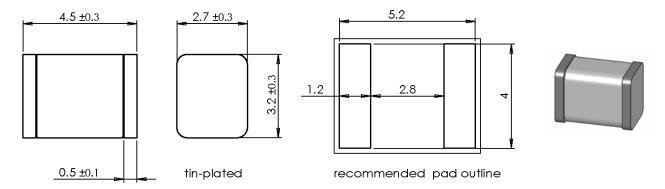


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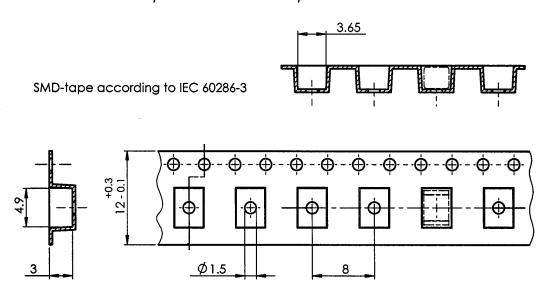
S30-A90X

## Dimensional drawing in mm



## Ordering code and packing advice

B88069X9231**T203** = tape and reel with 2000 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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