

# Surge arrester

2-electrode arrester

Series/Type:G30-A90XSMDOrdering code:B88069X9451T203Version/Date:Issue 01 / 2010-06-28

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# Surge arrester

# 2-electrode arrester

# B88069X9451T203 G30-A90XSMD

## Features

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

## **Electrical specifications**

# Applications

- **ESD** protection
- Applications with limited space

DC spark-over voltage <sup>1) 2)</sup>		90	V
		± 20	%
Impulse spark-over voltage			
at 100 V/µs - for 99 % of measured values - typical values of distribution		< 400 < 300	V V
at 1 kV/µs - for 99 % of measured values - typical values of distribution		< 700 < 600	V V
Service life <sup>3)</sup>			
10 operations [5× (+) & 5× (-	)] 8/20 µs	1	kA
1 operation	8/20 µs	2	kA
300 operations	8/20 µs	100	A
Insulation resistance at 50 $V_{DC}$		> 1	GΩ
Capacitance at 1 MHz		< 0.5	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	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, without			

At delivery AQL 0.65 level II, DIN ISO 2859
 In ionized mode
 Tests according to ITU-T Rec. K. 12 and UL 497B

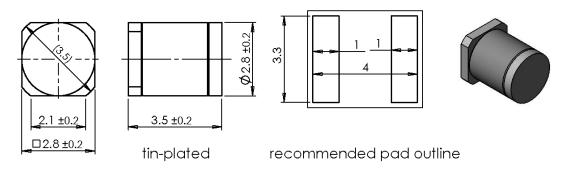
Terms and current waveforms in accordance with ITU-T Rec. K. 12; IEC 61643-21 and DIN 57845 / VDE0845



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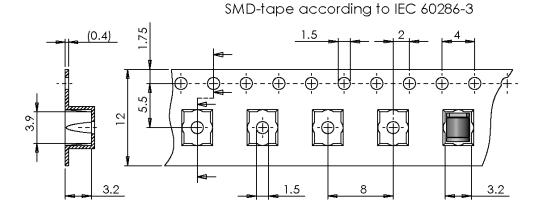
2-electrode arrester

#### Dimensional drawing in mm



## Ordering code and packing advice

#### B88069X9451**T203** = 2000 pcs on SMD-tape and reel



## **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 the event 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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