



## Surge arrester

2-electrode arrester

**Series/Type:** G30-A90XSMD  
**Ordering code:** B88069X9451T203  
**Version/Date:** Issue 01 / 2010-06-28

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**Features**

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

**Applications**

- ESD protection
- Applications with limited space

**Electrical specifications**

DC spark-over voltage <sup>1) 2)</sup>	90 ± 20	V %
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 [5x (+) & 5x (-)] 8/20 μs	1	kA
1 operation 8/20 μs	2	kA
300 operations 8/20 μs	100	A
Insulation resistance at 50 V <sub>DC</sub>	> 1	GΩ
Capacitance at 1 MHz	< 0.5	pF
Arc voltage at 1 A	~ 10	V
Glow to arc transition current	< 1.0	A
Glow voltage	~ 60	V
Weight	~ 0.2	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, without		

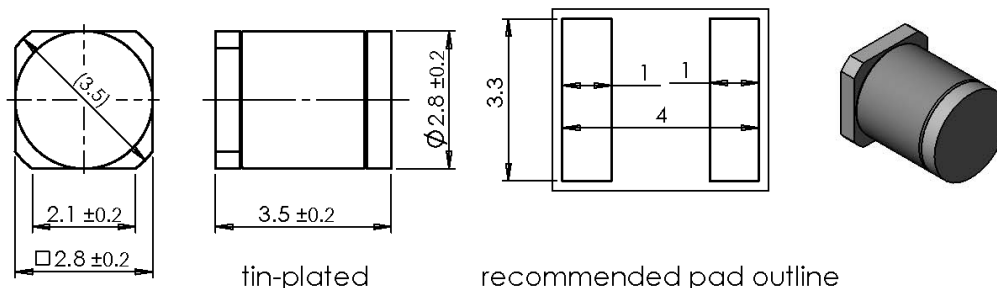
<sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859

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

<sup>3)</sup> 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

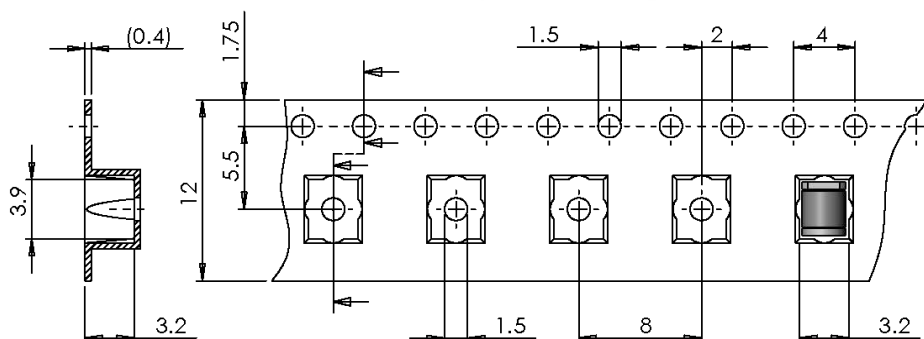
**Dimensional drawing in mm**



**Ordering code and packing advice**

**B88069X9451T203** = 2000 pcs on SMD-tape and reel

SMD-tape according to IEC 60286-3



**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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