



## Surge arrester

2-electrode arrester

**Series/Type:** S30-A420X  
**Ordering code:** B88069X9311T203  
Version/Date: Issue 02 / 2013-09-17

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**Features**

- Extremely small size
- 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**

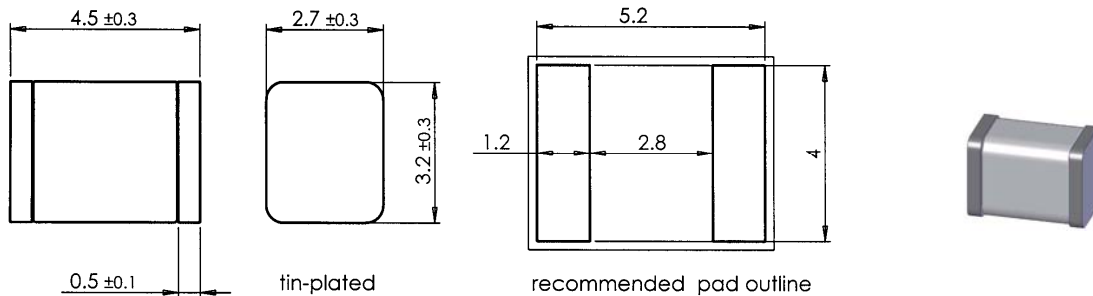
DC spark-over voltage <sup>1) 2)</sup>	420 ± 25	V %
Impulse spark-over voltage at 100 V/μs - for 99% of measured values - typical values of distribution at 1 kV/μs - for 99% of measured values - typical values of distribution	< 800 < 700 < 1000 < 850	V V V V
Service life <sup>3)</sup>		
10 operations 50 Hz, 1 s	2.5	A
300 operations 8/20 μs	100	A
10 operations [5x (+) & 5x (-)] 8/20 μs	2	kA
100 operations [50x (+) & 50x (-)] 10/1000 μs	10	A
Insulation resistance at 100 V <sub>DC</sub>	> 1	GΩ
Capacitance at 1 MHz	< 0.8	pF
Arc voltage at 1 A	~ 10	V
Glow to arc transition current	< 0.4	A
Glow voltage	~ 55	V
Weight	~ 0.2	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, black positive	<b>▲LY</b> L - Nominal voltage (L ≙ 420 V) Y - Year of production (last digit)	

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

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

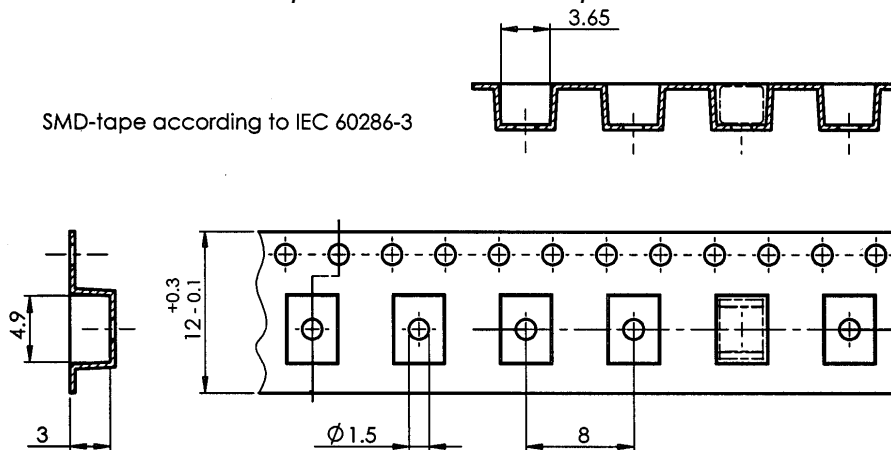
<sup>3)</sup> Tests according to ITU-T Rec. K. 12 and UL 497B

Terms and current waveforms in accordance with: ITU-T Rec. K. 12; IEC 61643-21, IEC 61643-311 and IEC 61663-2.

**Dimensional drawing in mm**

**Ordering code and packing advice**

**B88069X9311T203** = tape and reel with 2000 pcs

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 the event 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 lead contacts may fail or the component may be destroyed.
- Surge arresters must be handled with care and must not be dropped.
- Damaged surge arresters must not be re-used.

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Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)