



Surge arrester

2-electrode arrester

Series/Type: S30-A90X
Ordering code: B88069X9231T203
Version/Date: Issue 01 / 2010-03-23

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 V
at 1 kV/μs - for 99 % of measured values - typical values of distribution	< 600 < 500	V V
Service life ^{3) 4)}		
10 operations 50 Hz, 1 s	2	A
100 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 50 V _{DC}	> 1	GΩ
Capacitance at 1 MHz	< 1	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	

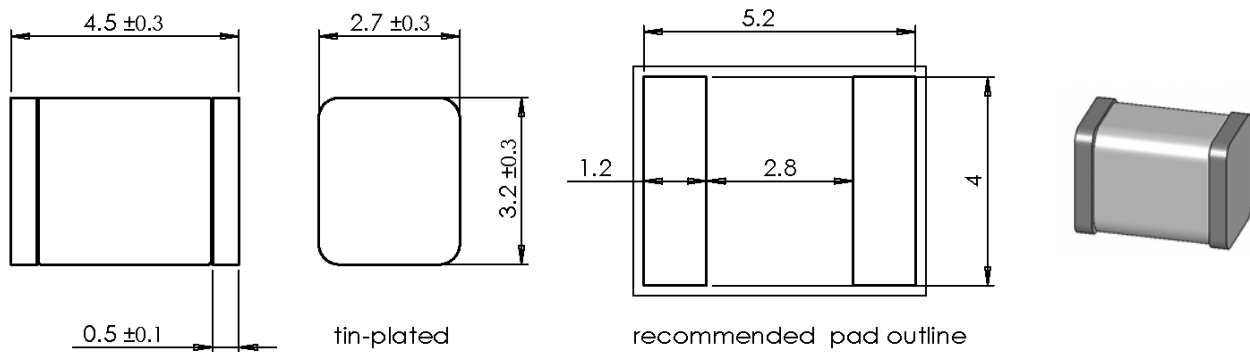
¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859

²⁾ In ionized mode

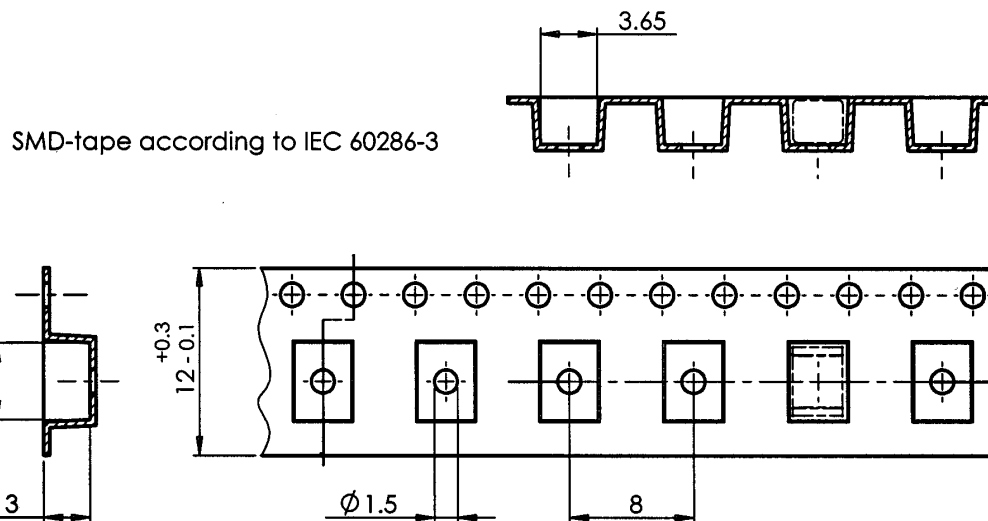
³⁾ Tests according to ITU-T Rec. K. 12 and UL 497B

⁴⁾ After service life:
Impulse spark-over voltage at 1 kV/μs < 700 V

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

B88069X9231T203 = 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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