



Surge arrester

2-electrode arrester

Series/Type: S30-A400X
Ordering code: B88069X5211T203
Version/Date: Issue 05 / 2013-09-17

Features

- Very 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 ^{1) 2)}	400 ± 25	V %
Impulse spark-over voltage at 100 V/μs - for 99% of measured values - typical values of distribution	< 800 < 750	V V
at 1 kV/μs - for 99% of measured values - typical values of distribution	< 950 < 900	V V
Service life ^{3) 4)}		
10 operations 50 Hz, 1 s	2	A
10 operations [5x (+) & 5x (-)] 8/20 μs	1	kA
100 operations [50x (+) & 50x (-)] 10/1000 μs	10	A
Insulation resistance at 100 V _{DC}	> 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	▲KY K - Nominal voltage (K ≙ 400 V) Y - Year of production (last digit)	

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⁾ Data after service life:

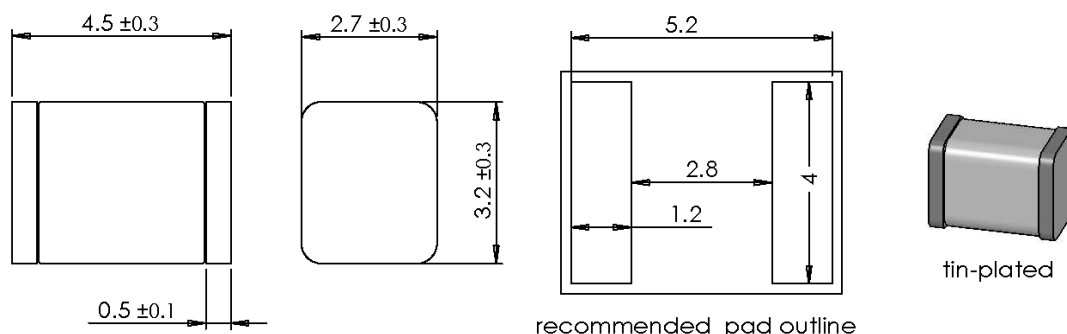
DC spark-over voltage 400 V ±30%

Impulse spark-over voltage at 100 V/μs < 900 V

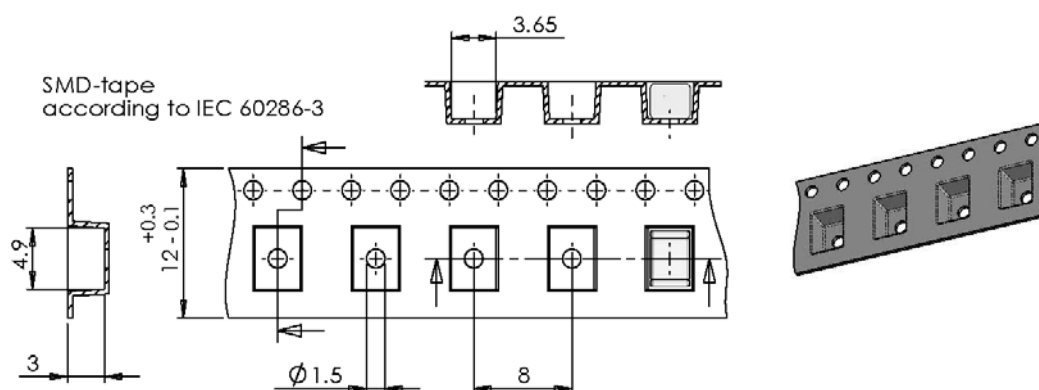
Impulse spark-over voltage at 1 kV/μs < 1050 V

Insulation resistance IR > 10⁸ Ohm

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

B88069X5211T203 = 2000 pcs on SMD-tape


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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