Surge arrester

3-electrode arrester

Series/Type:	**TG30-C420XSMD**
Ordering code:	**B88069X1903T203**
Version/Date:	Issue 01 / 2012-07-27

Surge arrester — B88069X1903T203

3-electrode arrester — TG30-C420XSMD

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

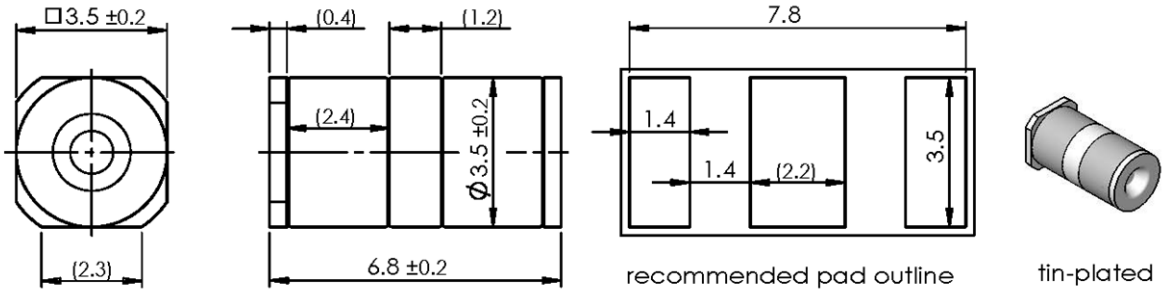
Electrical specifications

DC spark-over voltage [1) 2) 3)]		360 ... 560	V
Impulse spark-over voltage [3)]			
at 100 V/µs	- for 99 % of measured values	< 850	V
	- typical values of distribution	< 750	V
at 1 kV/µs	- for 99 % of measured values	< 1000	V
	- typical values of distribution	< 850	V
Service life			
300 operations	8/20 µs [5)]	100	A
10 operations [5× (+) & 5× (–)]	8/20 µs [4)]	2	kA
10 operations [5× (+) & 5× (–)]	5/320 µs [6) 7)]	150	A
Insulation resistance at 100 V_{DC} [3)]		> 1	GΩ
Capacitance at 1 MHz [3)]		< 1.0	pF
Arc voltage at 1 A		~ 12	V
Glow to arc transition current		~ 1	A
Glow voltage		~ 60	V
Weight		~ 0.4	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) Tip or ring electrode to center electrodes
4) Total current through center electrodes, half value through tip respectively ring electrode.
5) Tip to ring electrode
6) Tip to center electrode additional ring to center electrode
7) Test generator 6 kV, 10/700 µs, 40 Ω

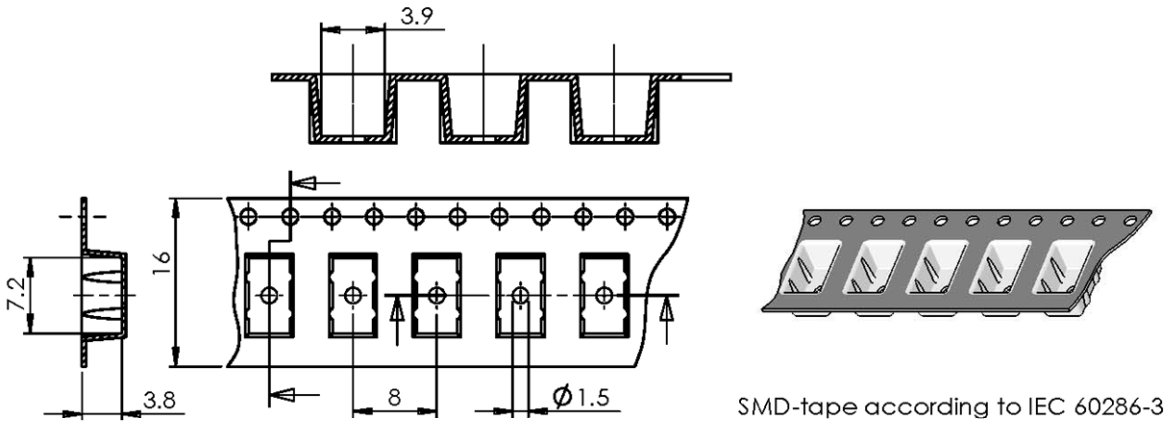
Terms in accordance with ITU-T Rec. K.12 and IEC 61663-2 and IEC 61643-311.

Dimensional drawing in mm



Ordering code and packing advice

*B88069X1903**T203** = SMD-tape 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 lead contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

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