



Surge arrester

2-electrode arrester

Series/Type: S30-A150X
Ordering code: B88069X6071T203
Version/Date: Issue 04 / 2007-10-09

Features	Applications
<ul style="list-style-type: none"> ▪ Extremely small size ▪ Very fast response time ▪ Stable performance over life ▪ Very low capacitance ▪ High insulation resistance ▪ Excellent SMD handling ▪ RoHS-compatible 	<ul style="list-style-type: none"> ▪ PCI cards ▪ Modem ▪ Splitter ▪ Line cards ▪ Applications with limited space

Electrical specifications

DC spark-over voltage ^{1) 2)}	150 ± 30	V %
Impulse spark-over voltage at 100 V/μs at 1 kV/μs	< 500 < 600	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 (-)] 10/1000μs	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

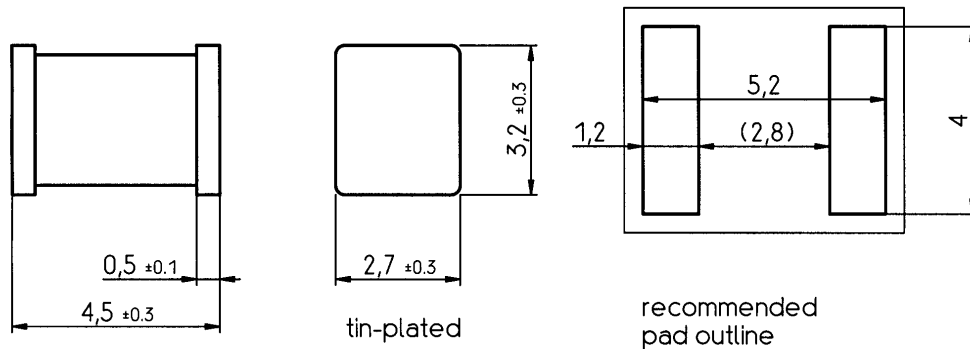
²⁾ In ionized mode

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



Not to scale

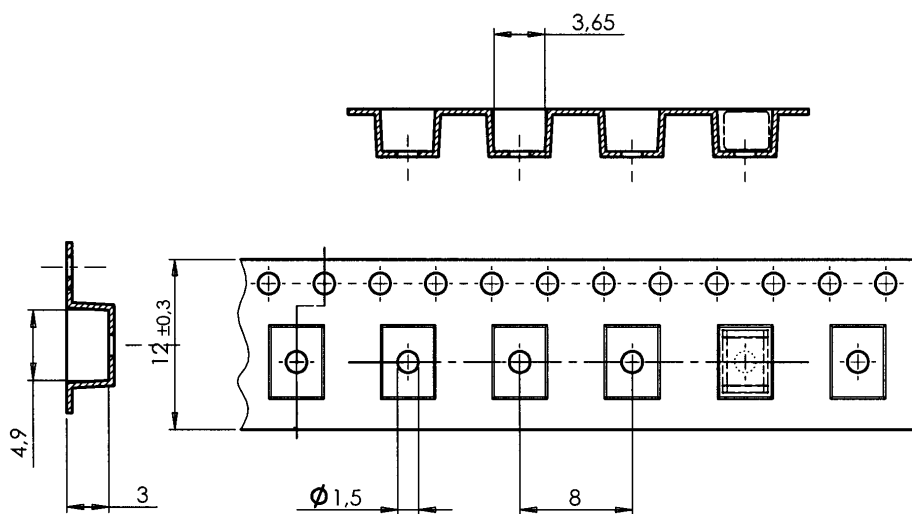
Dimensions in mm

Non controlled document

Packing advice

T203 = tape and reel with 2000 pcs

Tape and reel packing comply with the specification of 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 case of overload, the head contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

Important notes

The following applies to all products named in this publication:

1. Some parts of this publication contain **statements about the suitability of our products for certain areas of application**. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out **that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application**. As a rule, EPCOS is either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether an EPCOS product with the properties described in the product specification is suitable for use in a particular customer application.
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