



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

**Electrical specifications**

DC spark-over voltage <sup>1) 2)</sup>	150 ± 30	V %
Impulse spark-over voltage at 100 V/μs at 1 kV/μs	< 500 < 600	V V
Service life <sup>3) 4)</sup>		
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 <sub>dc</sub>	> 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		

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

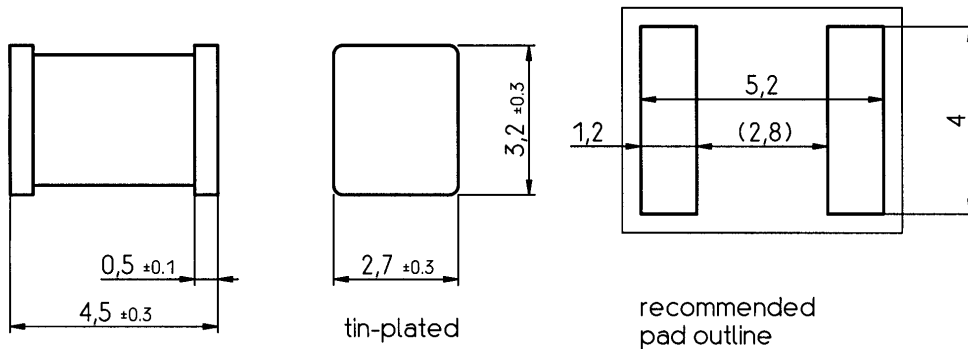
<sup>2)</sup> In ionized mode

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

<sup>4)</sup> 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

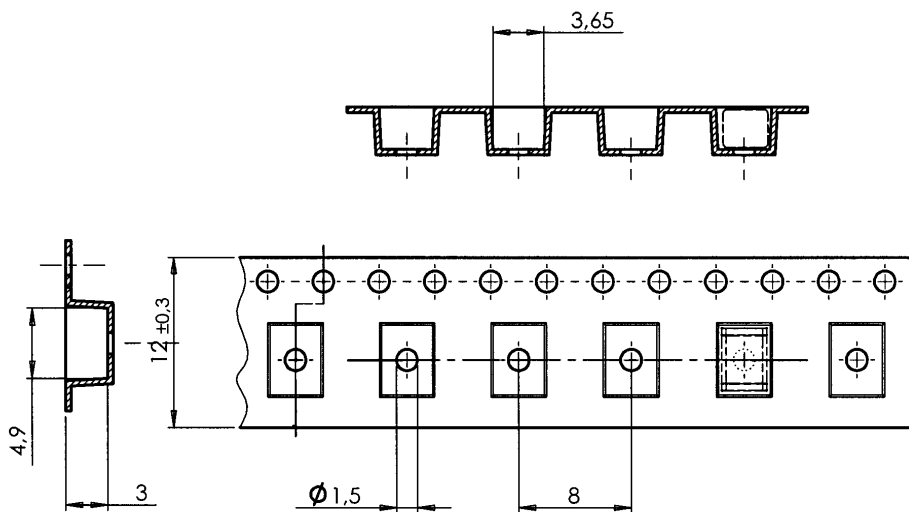
Dimensions in mm

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.

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