

## Surge arrester

2-electrode arrester

 Series/Type:
 M50-A230XSMD

 Ordering code:
 B88069X5220T902

 Version/Date:
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## Surge arrester

### 2-electrode arrester

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Features	Applications
<ul> <li>Very small size</li> </ul>	<ul> <li>Branch exchange</li> </ul>
<ul> <li>High current rating</li> </ul>	<ul> <li>Line protection</li> </ul>
<ul> <li>Very fast response time</li> </ul>	<ul> <li>Subscriber protection</li> </ul>
<ul> <li>Stable performance over life</li> </ul>	<ul> <li>Alarm system</li> </ul>
<ul> <li>Very low capacitance</li> </ul>	
<ul> <li>High insulation resistance</li> </ul>	
<ul> <li>Excellent SMD handling</li> </ul>	
<ul> <li>RoHS-compatible</li> </ul>	

#### **Electrical specifications**

DC spark-over voltag	le <sup>1) 2)</sup>	230 ± 20	V %
Impulse spark-over v	oltage		
at 100 V/µs	- for 99 % of measured values	< 550	V
·	- typical values of distribution	< 500	V
at 1 kV/µs	- for 99 % of measured values	< 650	V
	- typical values of distribution	< 600	V
Service life			
10 operation	s 50 Hz, 1 s	5	А
1 operation	50 Hz, 0.18 s (9 cycles)	10	А
10 operation	s 8/20 µs	5	kA
1 operation	8/20 µs	10	kA
1 operation	10/350 µs	0.5	kA
Insulation resistance	at 100 V <sub>dc</sub>	> 1	GΩ
Capacitance at 1 MHz		< 1	pF
Arc voltage at 1 A		~ 15	V
Glow to arc transition current		~ 0.5	A
Glow voltage		~ 60	V
Weight		~ 1	g
Operation and storage temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, blue negative		EPCOS 230 YY O230- Nominal voltageYY- Year of productionO- Non radioactive	

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

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

Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

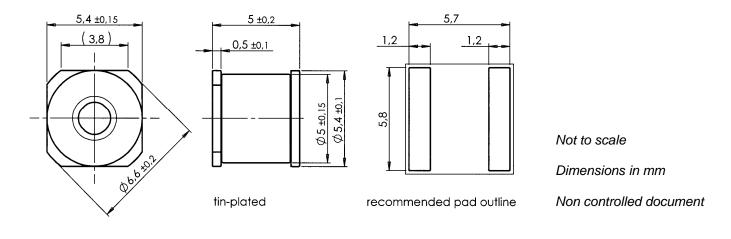


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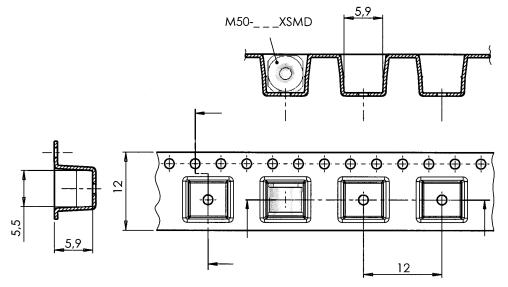
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#### **Dimensional drawing**



#### **Packing advice**

*T*902 = 900 pcs on *SMD*-tape



SMD-tape according to 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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