

# Surge arrester

2-electrode arrester

Series/Type: ES90XSMD

Ordering code: B88069X6241T902

Version/Date: Issue 01 / 2006-09-13



Surge arrester B88069X6241T902

## 2-electrode arrester ES90XSMD

Features	Applications
<ul><li>Extremely small size</li></ul>	■ Modem
<ul> <li>Extremely fast response time</li> </ul>	<ul> <li>XDSL-splitter</li> </ul>
<ul> <li>Stable performance over life</li> </ul>	■ Tuner
<ul> <li>Extremely low capacitance</li> </ul>	<ul><li>Data lines</li></ul>
<ul> <li>High insulation resistance</li> </ul>	<ul><li>Antenna</li></ul>
<ul> <li>RoHS-compatible</li> </ul>	

## **Electrical specifications**

DC spark-over voltage 1) 2)	90 ± 20	V %
Impulse spark-over voltage at 100 V/µs - for 99% of measured values - typical values of distribution	< 450 < 300	V V
at 1 kV/µs - for 99% of measured values - typical values of distribution	< 600 < 550	V V
Service life		
10 operations 8/20 μs	2.5	kA
1 operation 8/20 μs	5	kA
Insulation resistance at 50 $V_{\text{DC}}$	> 1	$G\Omega$
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 10 < 0.5 ~ 40	V A V
Weight	~ 0.3	g
Operation and storage temperature	-40 +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, red positive	EPCOS ES 90 YY O ES - Series 90 - Nominal voltage YY - Year of productio O - Non radioactive	

At delivery AQL 0.65 level II, DIN ISO 2859

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

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

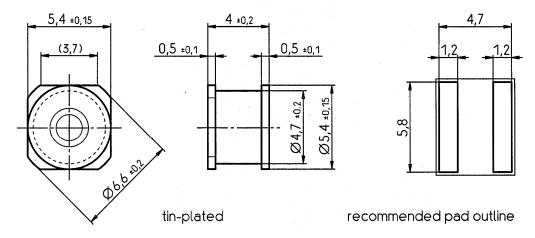


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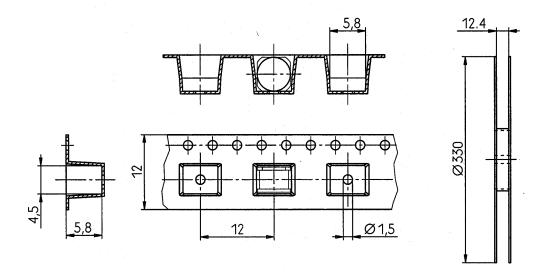
#### Dimensional drawing in mm



## Ordering code and packing advice

B88069X6241**T902** = tape and reel with 900 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 lead contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

KB AB E / KB AB PM Issue 01 / 2006-09-13



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