



## Surge arrester

2-electrode arrester

**Series/Type:** EM900X  
**Ordering code:** B88069X5411xxxx <sup>a)</sup>  
Version/Date: Issue 01 / 2005-11-28

**Features**

- Very small size
- Very fast response time
- Stable performance over life
- Extremely low capacitance
- High insulation resistance
- RoHS compatibility

**Applications**

- Modem
- Consumer electronics

**Electrical specifications**

DC spark-over voltage <sup>1) 2)</sup>	900 ± 20	V %
Impulse spark-over voltage		
at 100 V/μs - for 99 % of measured values - typical values of distribution	< 1500 < 1450	V V
at 1 kV/μs - for 99 % of measured values - typical values of distribution	< 1700 < 1600	V V
Service life <sup>3)</sup>		
10 operations      50 Hz; 1 s	2	A
300 operations     8/20 μs	100	A
3 operations      8/20 μs	2	kA
Insulation resistance at 100 V <sub>dc</sub>	> 1	GΩ
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A	~ 11	V
Glow to arc transition current	< 0.5	A
Glow voltage	~ 70	V
Weight	~ 1	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, red positive	<b>EPCOSEM 900 YY O</b> EM - Series 900 - Nominal voltage YY - Year of production O - Non radioactive	

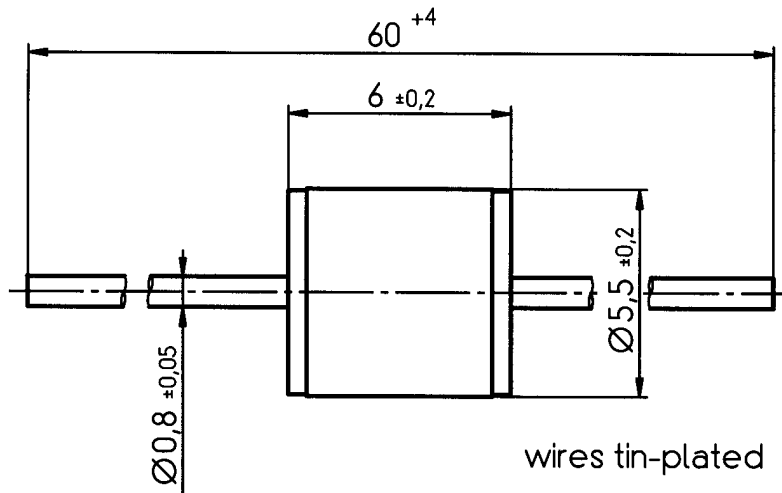
<sup>a)</sup> xxxx = S102 (100 pcs on 5 taped stripes)  
= T502 (500 pcs on tape and reel)

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

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

<sup>3)</sup> Arrester has to meet: Voltage withstand test AC 400 V, 1min  
Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

### Dimensional drawing



*Not to scale*

*Dimensions in mm*

*Non controlled document*

### Cautions and warnings

- Depending on the incorporation position, the surge arrester may have to be additionally secured by mechanical means.
- Surge arresters must not be operated directly in power supply networks.
- Surge arresters may become hot in the event of longer periods of current stress (danger of burning).
- Surge arresters may be used only within their specified values. In the event 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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