

# Surge arrester

2-electrode arrester

Series/Type: ES600XSN

Ordering code: B88069X6181xxxx <sup>a)</sup>

Version/Date: Issue 01 / 2006-08-31



Surge arrester B88069X6181xxxx <sup>a)</sup>

# 2-electrode arrester ES600XSN

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

## **Electrical specifications**

DC spark-over voltage 1) 2) 3)		510 750	V
Impulse spark-over	voltage		
at 100 V/μs	- for 99 % of measured values - typical values of distribution	< 800 < 750	V
at 1 kV/μs	<ul><li>for 99 % of measured values</li><li>typical values of distribution</li></ul>	< 900 < 800	V
Single impulse discharge current (wave 8/20 µs)		2.0	kA
Insulation resistance at 100 V <sub>dc</sub>		> 1	GΩ
Capacitance at 1 MHz		< 1	pF
Weight		~ 0.5	g
Operation and storage temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, red positive		EPCOS ES 600 YY O  ES - Series 600 - Nominal voltage YY - Year of production O - Non radioactive	

a) xxxx = T103 (1000 pcs. on SMD-tape) C253 (2500 pcs in container)

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

KB AB E / KB AB PM Issue 01 / 2006-08-31

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

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

The first DC spark-over value immediately after changing polarity shall not be considered.

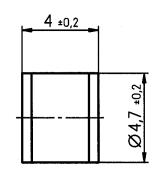


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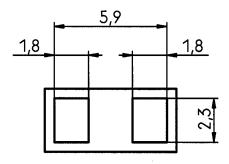
#### 2-electrode arrester

ES600XSN

#### **Dimensional drawing**



tin-plated



empfohlene Lötfläche/ recommended pad outline

Not to scale

Dimensions in mm

Non controlled document

## **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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