

# Surge arrester

2-electrode arrester

Series/Type:ES300XNOrdering code:B88069X4190T103Version/Date:Issue 07 / 2007-01-15

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# Surge arrester

#### 2-electrode arrester

B88069X4190T103 ES300XN

Features	Applications
Extremely small size	<ul> <li>Modem</li> </ul>
<ul> <li>Very 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>High insulation resistance</li> </ul>	
<ul> <li>RoHS-compatible</li> </ul>	

# **Electrical specifications**

DC spark-over voltage <sup>1) 2)</sup>	300 ± 15	V %
Impulse spark-over voltage at 100 V/µs - for 99% of measured values - typical values of distribution	< 480 < 450	VVV
at 1 kV/µs - for 99% of measured values - typical values of distribution	< 550 < 500	V V
Service life		
10 operations 8/20 μs	2.5	kA
1 operation 8/20 μs	5	kA
Insulation resistance at 100 $V_{dc}$	> 1	GΩ
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 15 < 0.5 ~ 130	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 300 YYES- Series300- Nominal voltageYY- Year of productionO- Non radioactive	

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

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

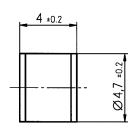
Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

# **☆TDK**

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#### **Dimensional drawing**



tin-plated

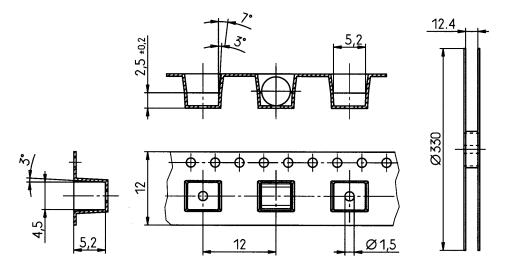
 Not to scale Dimensions in mm

Non controlled document

recommended pad outline

# Packing advice

T103 = 1000 pcs. on tape and reel



### **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

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