

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# Surge arrester

2-electrode arrester

Series/Type: ES300XN

Ordering code: B88069X4190T103

Version/Date: Issue 07 / 2007-01-15

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Surge arrester B88069X4190T103

#### 2-electrode arrester ES300XN

Features	Applications
<ul> <li>Extremely small size</li> </ul>	■ Modem
<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 1) 2)	300 ± 15	V %
Impulse spark-over voltage at 100 V/µs - for 99 % of measured values - typical values of distribution	< 480 < 450	V
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 $V_{\text{dc}}$	> 1	$G\Omega$
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 YY O ES - Series 300 - Nominal voltage YY - Year of production O - Non radioactive	

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

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

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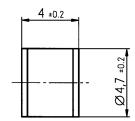
<sup>2)</sup> In ionized mode

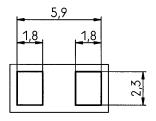


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#### **Dimensional drawing**





tin-plated

Not to scale

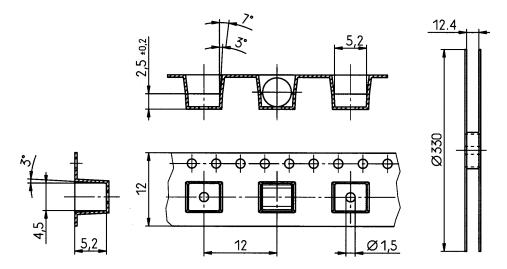
Dimensions in mm

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 head contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

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