



Surge arrester

2-electrode arrester

Series/Type: ES350XSMD
Ordering code: B88069X4911T902
Version/Date: Issue 03 / 2007-01-12

Features	Applications
<ul style="list-style-type: none"> ▪ Extremely small size ▪ Extremely fast response time ▪ Stable performance over life ▪ Extremely low capacitance ▪ High insulation resistance ▪ Excellent SMD handling ▪ RoHS-compatible 	<ul style="list-style-type: none"> ▪ Modem ▪ Consumer electronics ▪ Tuner

Electrical specifications

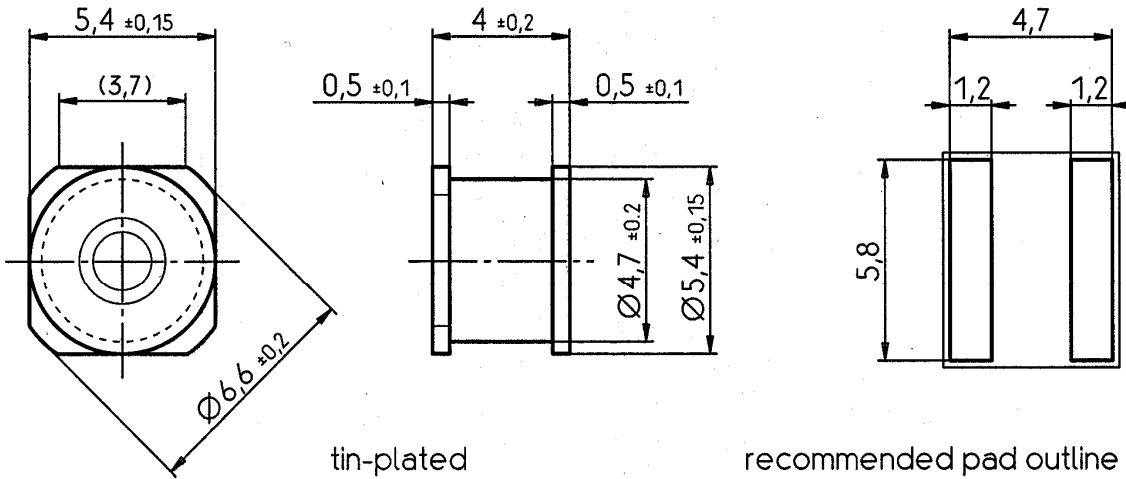
DC spark-over voltage ^{1) 2)}	350 ± 15	V %
Impulse spark-over voltage at 100 V/μs - for 99 % of measured values - typical values of distribution	< 530 < 450	V V
at 1 kV/μs - for 99 % of measured values - typical values of distribution	< 600 < 530	V V
Service life 10 operations (5x (+) & 5x (-)) 8/20 μs 1 operation 8/20 μs	5 5	kA kA
Insulation resistance at 100 V _{dc}	> 1	GΩ
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A	~ 15	V
Glow to arc transition current	< 0.5	A
Glow voltage	~ 130	V
Weight	~ 1	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, red negative	EPCOSES 350 YY O ES - Series 350 - Nominal voltage YY - Year of production O - Non radioactive	

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

²⁾ In ionized mode

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

Dimensional drawing



tin-plated

recommended pad outline

Not to scale

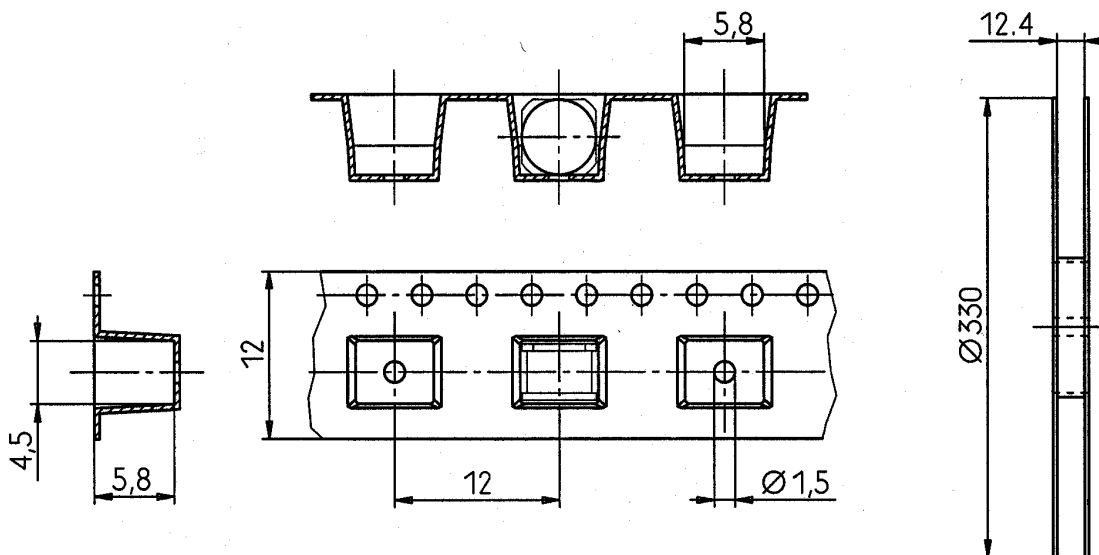
Dimensions in mm

Non controlled document

Packing advice

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.
- If the contacts of the surge arresters are defective, current stress can lead to the formation of sparks and loud noises (bang).
- 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.

Important notes

The following applies to all products named in this publication:

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