



Surge arrester

2-electrode arrester

Series/Type: ES420XSMDs
Ordering code: B88069X1453T902
Version/Date: Issue 01 / 2011-11-08

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Features

- Very small size
- Very fast response time
- Stable performance over life
- Very low capacitance
- High insulation resistance
- Excellent SMD handling
- RoHS-compatible

Applications

- Modem
- XDSL-splitter
- Consumer electronics
- Tuner

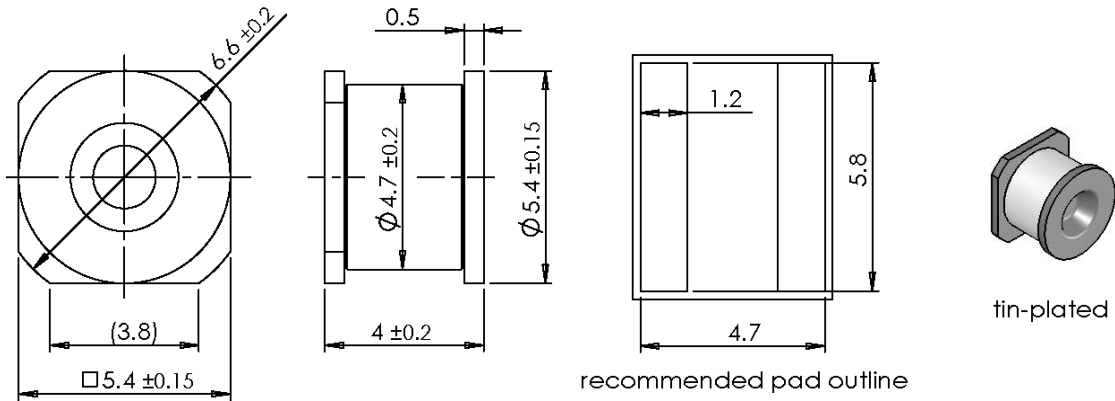
Electrical specifications

DC spark-over voltage ^{1) 2)}	420 ± 20	V %
Impulse spark-over voltage at 100 V/μs - for 99 % of measured values - typical values of distribution	< 650 < 600	V V
at 1 kV/μs - for 99 % of measured values - typical values of distribution	< 700 < 650	V V
Service life 10 operations [5x (+) & 5x (-)] 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	~ 16	V
Glow to arc transition current	< 1	A
Glow voltage	~ 140	V
Weight	~ 0.3	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, blue positive	EPCOSES 420 YY O ES - Series 420 - Nominal voltage YY - Year of production O - Non radioactive	

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

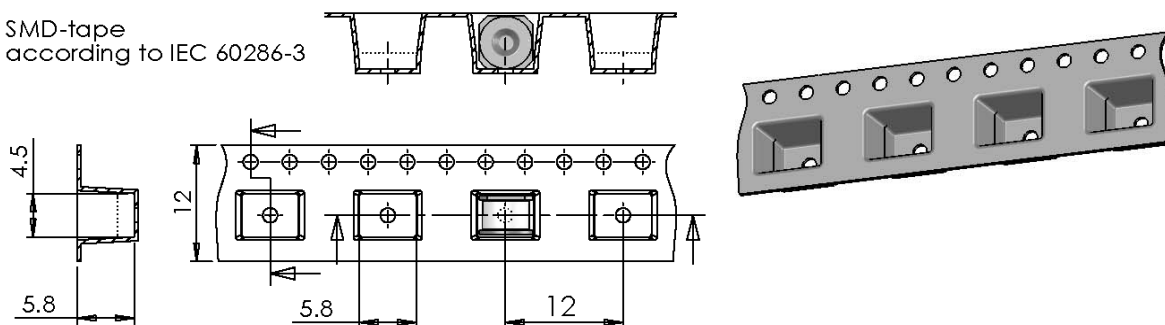
²⁾ In ionized mode

Terms in accordance with ITU-T Rec. K.12 and IEC 61663-2

Dimensional drawing

Ordering code and packing advice

B88069X...T902 = tape and reel with 900 pcs

SMD-tape
according to IEC 60286-3


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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The following applies to all products named in this publication:

1. Some parts of this publication contain **statements about the suitability of our products for certain areas of application**. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out **that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application**. As a rule we are either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether a product with the properties described in the product specification is suitable for use in a particular customer application.
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