

Surge arrester

2-electrode arrester

Series/Type:ES420XSMDSOrdering code:B88069X1453T902Version/Date:Issue 01 / 2011-11-08

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B88069X1453T902

ES420XSMDS

Surge arrester

2-electrode arrester

Features

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

Electrical specifications

Applications

- Modem
- XDSL-splitter
- Consumer electronics
- Tuner

Electrical specificat			
DC spark-over voltage ^{1) 2)}		420	V
		± 20	%
Impulse spark-over v	oltage		
at 100 V/µs - for 99 % of measured values		< 650	V
	 typical values of distribution 	< 600	V
at 1 kV/µs	- for 99 % of measured values	< 700	V
·	 typical values of distribution 	< 650	V
Service life			
10 operations [5× (+) & 5× (–)] 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 OES- Series420- Nominal voltageYY- Year of productionO- 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

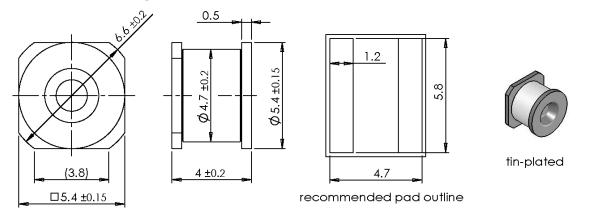


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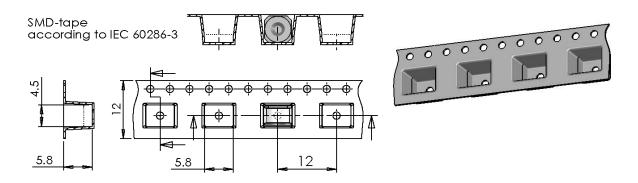
B88069X1453T902 ES420XSMDS

Dimensional drawing



Ordering code and packing advice

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



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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