

Surge arrester

2-electrode arrester

Series/Type:ES90XSMDOrdering code:B88069X6241T902Version/Date:Issue 01 / 2006-09-13

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Surge arrester

2-electrode arrester

B88069X6241T902

ES90XSMD

Features	Applications	
 Extremely small size 	 Modem 	
 Extremely fast response time 	 XDSL-splitter 	
 Stable performance over life 	Tuner	
 Extremely low capacitance 	 Data lines 	
 High insulation resistance 	 Antenna 	
RoHS-compatible		

Electrical specifications

DC spark-over voltage ^{1) 2)}	90 ± 20	V %	
Impulse spark-over voltage at 100 V/µs - for 99% of measured values	< 450	V	
- typical values of distribution	< 300	V	
at 1 kV/µs - for 99% of measured values - typical values of distribution	< 600 < 550	V V	
Service life			
10 operations 8/20 μs	2.5	kA	
1 operation 8/20 μs	5	kA	
Insulation resistance at 50 V_{DC}	> 1	GΩ	
Capacitance at 1 MHz	< 1	pF	
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 10 < 0.5 ~ 40	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	ES - Series 90 - Nominal voltage YY - Year of product	90 - Nominal voltage YY - Year of production	

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

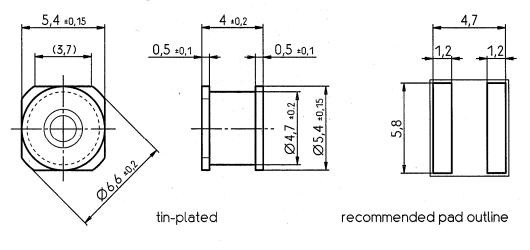


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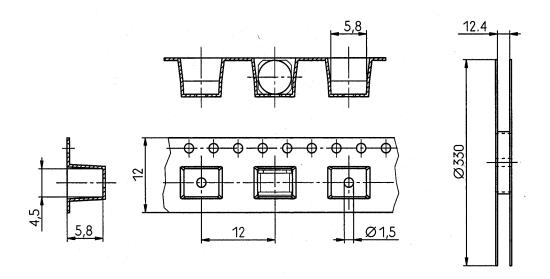
B88069X6241T902 ES90XSMD

Dimensional drawing in mm



Ordering code and packing advice

B88069X6241**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.
- 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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