

Surge arrester

2-electrode arrester

Series/Type: ES90XP

Ordering code: B88069X5151B502 Version/Date: Issue 02 / 2006-08-31

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Surge arrester B88069X5151B502
2-electrode arrester ES90XP

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

Electrical specifications

DC spark-over voltage 1) 2)	90	V	
	± 20	%	
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	< 600	V	
 typical values of distribution 	< 550	V	
Service life			
10 operations 50 Hz, 1 s	2.5	Α	
10 operations 8/20 μs	2.5	kA	
1 operation 8/20 μs	5	kA	
Insulation resistance at 50 V_{dc}	> 1	$G\Omega$	
Capacitance at 1 MHz	< 1	pF	
Arc voltage at 1 A	~ 10	V	
Glow to arc transition current	< 0.5	Α	
Glow voltage	~ 40	V	
Weight	~ 0.3	g	
Operation and storage temperature	-40 + 90	°C	
Climatic category (IEC 60068-1)	40/ 90/ 21	40/ 90/ 21	
Marking, red positive	EPCOSES 90 YY O ES - Series 90 - Nominal voltage YY - Year of production O - Non radioactive	1	

¹⁾ 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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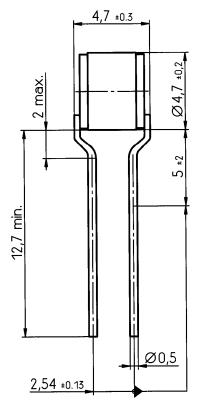
²⁾ In ionized mode



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Dimensional drawing



Not to scale

Dimensions in mm

wires tin-plated

Non controlled document

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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