

Surge arrester

2-electrode arrester

Series/Type: ES300XP

Ordering code: B88069X4180B502

Version/Date: Issue 03 / 2006-09-27

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

Electrical specifications

DC spark-over voltage 1) 2)	300 ± 15	V %	
Impulse spark-over voltage at 100 V/µs - for 99 % of measured values - typical values of distribution	< 500 < 450	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 100 V _{dc}	> 1	$G\Omega$	
Capacitance at 1 MHz	< 1	pF	
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 11 < 0.5 ~ 130	V A 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	EPCOS ES 300 YY O ES - Series 300 - Nominal voltage YY - Year of production O - Non radioactive		

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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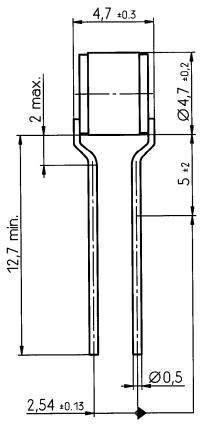
²⁾ In ionized mode



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Dimensional drawing



wires tin-plated

Not to scale

Dimensions in mm

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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