

# Surge arrester

2-electrode arrester

Series/Type: Ordering code: ES300XN

B88069X4190T103

2019-07-22 Date:

Version: 80

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Surge arrester B88069X4190T103

2-electrode arrester ES300XN

### **Features**

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

# **Applications**

- Modem
- XDSL-splitter
- Tuner

# **Electrical specifications**

DC spark-over voltage 1) 2)		300	V	
Tolerance		±15	%	
Min.		255	V	
Max.		345	V	
Impulse spark-over voltage				
at 100 V/µs - for	99% of measured values	< 480	V	
- typ	ical values of distribution	< 450	V	
at 1 kV/µs - for	99% of measured values	< 550	V	
- typ	ical values of distribution	< 500	V	
Service life				
10 operations	8/20 μs	2.5	kA	
1 operation	8/20 µs	5	kA	
Insulation resistance at 100 V <sub>DC</sub>		> 1	$G\Omega$	
Capacitance at 1 MHz		< 1	pF	
Arc voltage at 1 A		~ 15	V	
Glow to arc transition current		< 0.5	Α	
Glow voltage		~ 130	V	
Weight		~ 0.3	g	
Operation and storage temperature		-40 <b>+125</b>	°C	
Climatic category (IEC 60068-1)		40/125/21	40/125/21	
Marking, red positive		EPCOS ES 300	EPCOS ES 300 YY O	
<b>3</b> , 1		ES - Series		
			300 - Nominal voltage YY - Year of production	
Certification		UL 497B (E16307	70) 👊	

<sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859

Terms in accordance with ITU-T Rec. K. 12; IEC 61643-311.

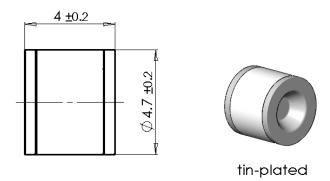
<sup>2)</sup> In ionized mode



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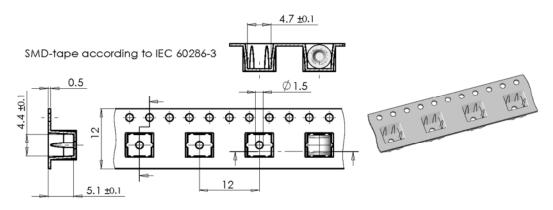
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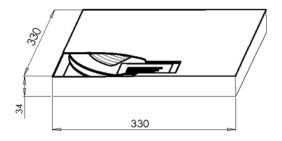
# Dimensional drawing in mm



# Ordering codes and packing advices

B88069X4190**T103** = 1000 pcs. in SMD-tape & reel





PPD AB PD / PPD AB PM Version: 08 / 2019-07-22



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#### **Cautions and warnings**

- Do not operate surge arresters in power supply networks, whose maximum operating voltage exceeds the minimum spark-over voltage of the surge arresters.
- Surge arresters may become hot in the event of longer periods of current stress (burn risk). In the event of overload the connectors may fail or the component may be destroyed.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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