

Surge arrester

2-electrode arrester

Version:

 Series/Type:
 ES1000XN

 Ordering code:
 B88069X4391T103

 Date:
 2019-07-22

03

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ES1000XN

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Surge arrester

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Features

- Very small size
- Fast response time
- Very high current rating
- Stable performance over life
- Very low capacitance
- High insulation resistance
- RoHS-compatible

Applications

- Modem
- Consumer electronics
- Tuner

Electrical specifications			
DC spark-over voltage ^{1) 2)}	1000	V	
Tolerance	±20	%	
Min.	800	V	
Max.	1200	V	
Impulse spark-over voltage			
at 100 V/µs - for 99% of measured values	< 1300	V	
 typical values of distribution 	< 1100	V	
at 1 kV/µs - for 99% of measured values	< 1400	V	
- typical values of distribution	< 1200	V	
Service life			
1 operation 8/20 μs	2	kA	
Insulation resistance at 100 V_{DC}	> 1	GΩ	
Capacitance at 1 MHz	< 1	pF	
Arc voltage at 1 A	~ 11	V	
Glow to arc transition current	< 0.5	A	
Glow voltage	~ 130	V	
Weight	~ 0.5	g	
Operation and storage temperature	-40 +125	°C	
Climatic category (IEC 60068-1)	40/125/21	40/125/21	
Marking, red positive	EPCOS ES 1000 YY OES- Series1000- 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; IEC 61643-311.

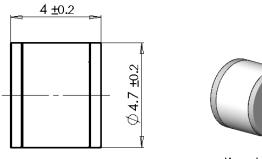
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B88069X4391T103 **ES1000XN**

Dimensional drawing in mm

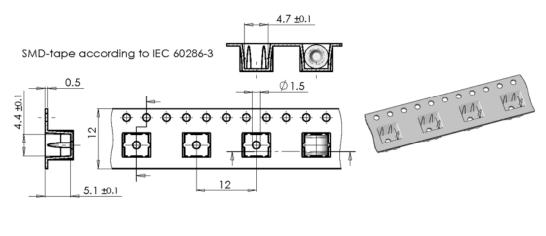


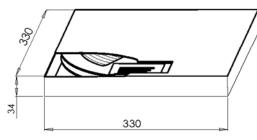


tin-plated

Ordering codes and packing advices

B88069X4391**T103** = 1000 pcs. in SMD-tape & reel





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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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