

Surge arrester

2-electrode arrester

Series/Type: Ordering code: **ES1000XN**

B88069X4391T103

2019-07-22 Date:

Version: 03

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Surge arrester B88069X4391T103

2-electrode arrester ES1000XN

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

Liectrical specifications			
DC spark-over voltage 1) 2) Tolerance Min. Max.		1000 ±20 800 1200	V % V
		1200	•
Impulse spark-over voltage at 100 V/µs - for 99% of measured values		< 1300	V
•	values of distribution	< 1100	V
	of measured values	< 1400	V
	values of distribution	< 1200	V
Service life		11200	
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	Α
Glow voltage		~ 130	V
Weight		~ 0.5	g
Operation and storage temperature		-40 +125	°C
Climatic category (IEC 60068-1)		40/125/21	
Marking, red positive		EPCOS ES 1000 YY O ES - Series 1000 - Nominal voltage YY - Year of production O - Non radioactive	

At delivery AQL 0.65 level II, DIN ISO 2859

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

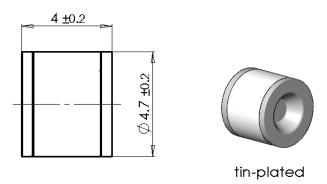
²⁾ In ionized mode



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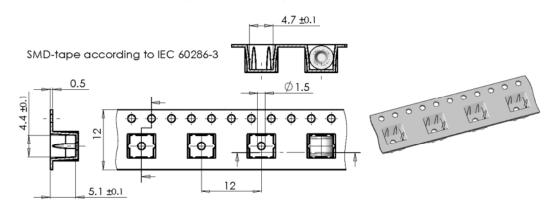
2-electrode arrester ES1000XN

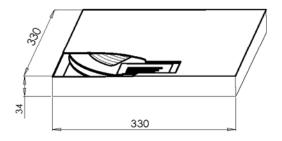
Dimensional drawing in mm



Ordering codes and packing advices

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





PPD AB PD / PPD AB PM Version: 03 / 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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Release 2018-10