

Surge arrester

2-electrode arrester

Series/Type: Ordering code:	EM2000X B88069X5600****
Date:	2019-09-20
Version:	05

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EM2000X

B88069X5600****

Surge arrester

2-electrode arrester

Features

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

Applications

- Power supplies
- Modem
- Consumer electronics
- AC power line devices

Electrical specifications			
DC spark-over voltage ^{1) 2)} Tolerance Min. Max.		2000 ±20 1600 2400	V % V V
Impulse spark-over voltage at 100 V/µs - for 99% of measured values - typical values of distribution		< 3400 < 3200 < 4100	V V V
at 1 kV/µs - for 99% of measured values - typical values of distribution		< 3800	V
Service life ³⁾ 10 operations 300 operations 3 operations	50 Hz, 1 s 8/20 μs 8/20 μs	1.5 100 2	A A kA
1 operation Insulation resistance at 100 V _{DC}	8/20 µs	2.5 > 1	kA GΩ
Capacitance at 1 MHz		< 1	pF
Arc voltage at 1 A Glow to arc transition current Glow voltage		~ 30 < 0.5 ~ 85	V A V
Weight		~ 0.7	g
Operation and storage temperation	ture	-40 +125	°C
Climatic category (IEC 60068-1)		40/125/21	
Marking, red positive		EPCOS EM 2000 EM - Series 2000 - Nominal volt YY - Year of prod O - Non radioact	age uction
Certifications		UL 1449 (E319264) c ^e us

¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859

²⁾ In ionized mode

³⁾ Voltage withstand test AC 900 V, 1 min

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

PPD AB PD / PPD AB PM



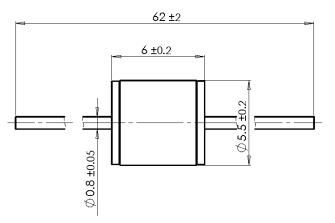
Surge arrester

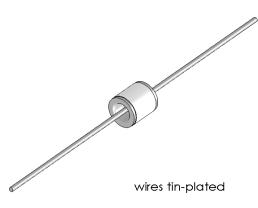
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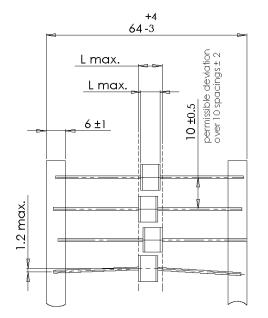
Dimensional drawing in mm



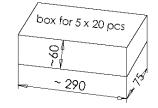


Ordering codes and packing advices

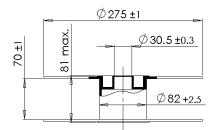
B88069X5600**S102** = 100 pcs. on 5 taped stripes

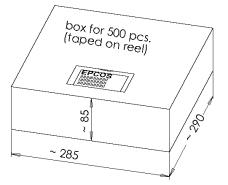


tape acc. to IEC 60286-1



B88069X5600**T502** = 500 pcs. on tape & reel





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Surge arrester

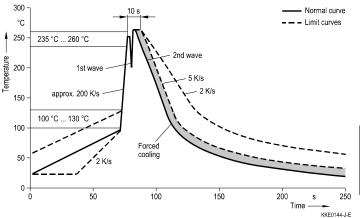
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Soldering parameter

Wave soldering



Wave profile features	Pb-free assembly
Solder	Sn 95.5 / Ag 3.8 / Cu 0.7
Solder bath temperature	263 (±3) °C
Dwell time	< 3 s

Soldering profile applied to a single soldering process.

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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