

Surge arrester

2-electrode arrester

Series/Type:	EM1000X
Ordering code:	B88069X4651****
Date:	2019-07-15
Version:	05

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Surge arrester

2-electrode arrester

B88069X4651****

EM1000X

Features

- Small size
- Fast response time
- High current handling capability
- Stable performance over service life
- Low capacitance and insertion loss
- High insulation resistance
- RoHS-compatible

Electrical specifications

Applications

- Power supplies
- Antenna protection
- Air condition
- Modem
- Consumer electronics
- Dataline protection

Lieunical 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		< 1700	V	
- typica	l values of distribution	< 1600	V	
at 1 kV/µs - for 99	% of measured values	< 1900	V	
- typica	l values of distribution	< 1800	V	
Service life				
10 operations	50 Hz, 1 s	2	Α	
300 operations	8/20 μs	100	A	
1 operation	8/20 μs	2.5	kA	
3 operations	8/20 μs	2	kA	
300 operations	10/1000 μs	100	А	
Insulation resistance at 100 V_{D}	C	> 1	GΩ	
Capacitance at 1 MHz		< 1	pF	
Arc voltage at 1 A		~ 25	V	
Glow to arc transition current		< 0.3	A	
Glow voltage		~ 70	V	
Weight		~ 1	g	
Operation and storage temper	ature	-40 +125	°C	
Climatic category (IEC 60068-	1)	40/125/21	·	
Marking, red positive			EPCOS EM 1000 YY O	
		EM - Series		
		1000 - Nominal volt YY - Year of prod	•	
		O - Non radioact		

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.

PPD AB PD / PPD AB PM

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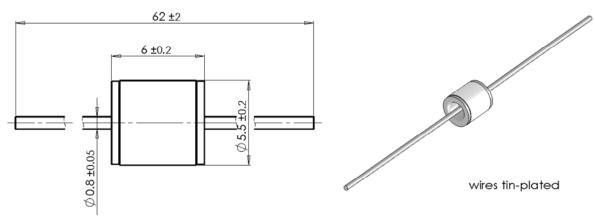
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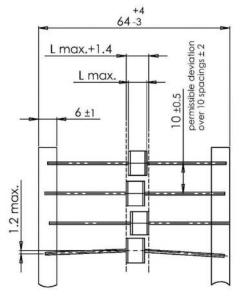
EM1000X

Dimensional drawing in mm

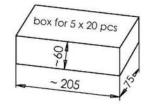


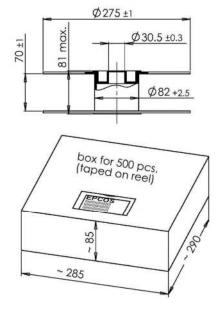
Ordering codes and packing advices

B88069X4651**S102** = 100 pcs. on 5 taped stripes B88069X4651**T502** = 500 pcs. on tape and reel



tape acc. to IEC 60286-1





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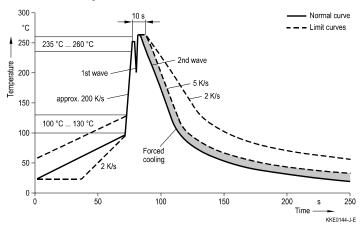
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Soldering parameter

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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