

Surge arrester

2-electrode arrester

Series/Type: **EM300X**

Ordering code: B88069X0380****

2019-07-18 Date:

Version: 07

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2-electrode arrester EM300X

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

Applications

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

Electrical specifications

Electrical opecifications				
DC spark-over voltage 1) 2)		300	V	
Tolerance		−10 + 15	%	
Min.		270	V	
Max.		345	V	
Impulse spark-over voltag	e			
at 100 V/µs - fo	or 99% of measured values	< 500	V	
- ty	pical values of distribution	< 450	V	
at 1 kV/µs - fo	or 99% of measured values	< 600	V	
- ty	pical values of distribution	< 550	V	
Service life				
10 operations	8/20 µs	2.5	kA	
1 operation	8/20 µs	5	kA	
1 operation	10/350 μs	0.5	kA	
Insulation resistance at 100 V _{DC}		> 1	$G\Omega$	
Capacitance at 1 MHz		< 1	pF	
Arc voltage at 1 A		~ 25	V	
Glow to arc transition current		< 0.6	Α	
Glow voltage		~ 160	V	
Weight		~ 1	g	
Operation and storage temperature		-40 + 125	°C	
Climatic category (IEC 60068-1)		40/125/21	40/125/21	
Marking, red positive			EPCOS EM 300 YY O	
		EM - Series	l.	
		300 - Nominal v YY - Year of p		
		O - Non radio		
Certification		UL 497B (E1630)70) 71 °	

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

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

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²⁾ In ionized mode

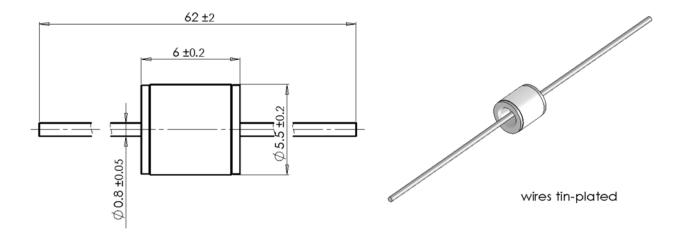


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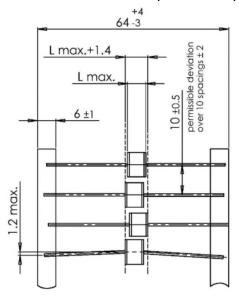
EM300X

Dimensional drawing in mm

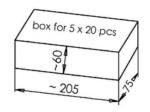


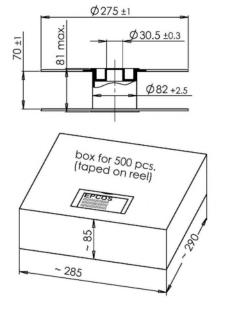
Ordering codes and packing advices

B88069X0380**\$102** = 100 pcs. on 5 taped stripes B88069X0380**T502** = 500 pcs. on tape and reel



tape acc. to IEC 60286-1





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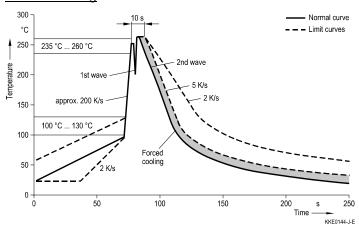


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Soldering parameter

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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