

# Surge arrester

2-electrode arrester

Series/Type: EM300XC

Ordering code: B88069X2650B502

2019-07-18 Date:

Version: 05

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Surge arrester B88069X2650B502

# 2-electrode arrester EM300XC

#### **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**

Liectrical specifications			
DC spark-over voltage 1) 2) Tolerance		300 -10 +15	V %
Min.		270	V
Max.		345	V
Impulse spark-over voltage	е		
at 100 V/µs - fo	r 99% of measured values	< 700	V
- ty	pical values of distribution	< 600	V
at 1 kV/µs - fo	r 99% of measured values	< 800	V
- ty	pical values of distribution	< 700	V
Service life			
10 operations	50 Hz, 1 s	2.5	Α
1 operation	50 Hz, 0.18 s (9 cycles)	5	Α
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 <sub>DC</sub>		> 1	$G\Omega$
Capacitance at 1 MHz		< 1	pF
Arc voltage at 1 A		~ 10	V
Glow to arc transition curre	< 0.3	Α	
Glow voltage		~ 60	V
Weight		~ 1	g
Operation and storage temperature		-40 <b>+1</b> 25	°C
Climatic category (IEC 60068-1)		40/125/21	
Marking, red positive		EPCOS EM 300 EM - Series 300 - Nominal vo YY - Year of pro O - Non radioa	oltage oduction

<sup>1)</sup> 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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<sup>2)</sup> In ionized mode

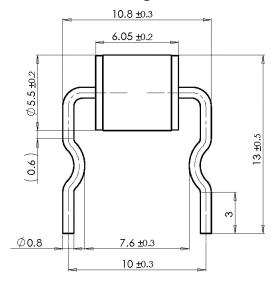


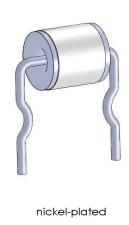
EM300XC

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# 2-electrode arrester

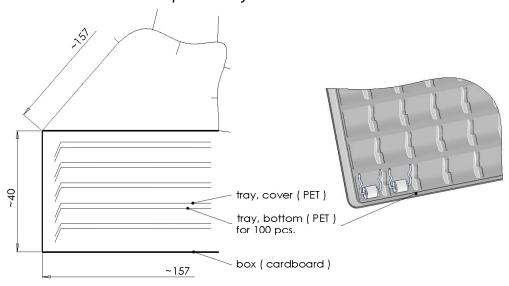
# Dimensional drawing in mm

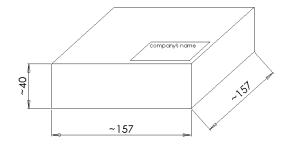




# Ordering codes and packing advices

B88069X2650**B502** = 500 pcs. on trays





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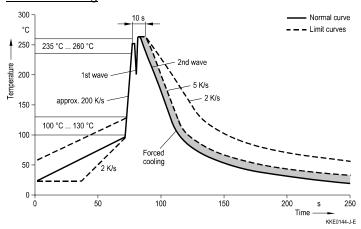


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#### 2-electrode arrester EM300XC

#### 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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