

# Surge arrester

2-electrode arrester

Series/Type: EM600XHC Ordering code: B88069X4313\*\*\*\*

Date: 2019-04-23

Version: 02

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Surge arrester B88069X4313\*\*\*\*

# 2-electrode arrester EM600XHC

#### **Features**

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

# **Applications**

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

# **Electrical specifications**

DC spark-over voltage 1) 2) Tolerance Min. Max.		600 ±20 480 720	V % V
Impulse spark-over voltage			
at 100 V/µs - for 99% of measured values		< 1100	V
<ul> <li>typical values of distribution</li> </ul>		< 1050	V
at 1 kV/μs - for 99% of measured values - typical values of distribution		< 1250	V
		< 1200	V
Service life			
10 operations	50 Hz, 1 s	10	Α
1 operation	50 Hz, 0.18 s (9 cycles)	20	Α
10 operations [5× (+) & 5× (-)]	8/20 μs	10	kA
10 operation	10/350 μs	1	kA
300 operations	10/1000 μs	100	Α
Insulation resistance at 100 V <sub>DC</sub>		> 1	$G\Omega$
Capacitance at 1 MHz		< 1	рF
Arc voltage at 1 A		~ 10	V
Glow to arc transition current		< 0.1	Α
Glow voltage		~ 50	V
Weight		~ 1	g
Operation and storage temperature		-40 +125	°C
Climatic category (IEC 60068-1)		40/125/21	
Marking, blue positive		EPCOS EM 600 YY O  EM - Series 600 - Nominal voltage YY - Year of production O - Non radioactive	

<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

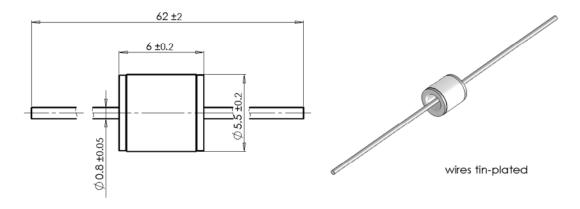


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## 2-electrode arrester

EM600XHC

# Dimensional drawing in mm

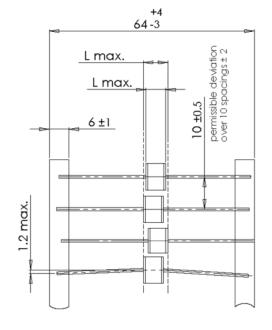


## Ordering codes and packing advices

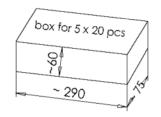
B88069X4313**S102** = 100 pcs. on 5 taped stripes

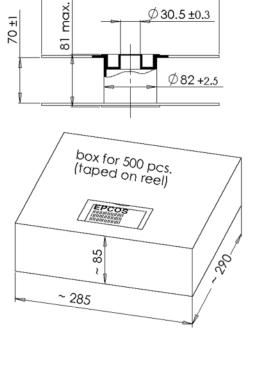
B88069X4313**T502** = 500 pcs. on tape & reel

Ø 275 ±1



tape acc. to IEC 60286-1





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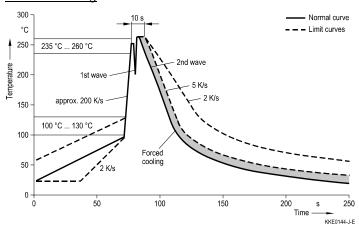


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#### 2-electrode arrester EM600XHC

#### 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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## Important notes

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