

Surge arrester

2-electrode arrester

Series/Type: Ordering code: **EM600X**

B88069X2593T502

2019-07-19 Date:

Version: 04

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2-electrode arrester EM600X

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

Electrical specificati			
DC spark-over voltage Tolerance	e ^{1) 2)}	600 ±20	V %
Min.		480	V
Max.		720	V
Impulse spark-over vo	oltage		
at 100 V/µs	- for 99% of measured value	s < 1100	V
	 typical values of distribution 	n < 950	V
at 1 kV/µs	- for 99% of measured value	s < 1200	V
	- typical values of distribution	n < 1000	V
Service life			
10 operations	50 Hz, 1 s	2.5	Α
1 operation	50 Hz, 0.18 s (9 c	cycles) 5	Α
10 operations	s 8/20 µs	2.5	kA
1 operation	8/20 µs	5	kA
Insulation resistance at 100 V _{DC}		> 1	$G\Omega$
Capacitance at 1 MHz		<1	pF
Arc voltage at 1 A		~ 10	V
Glow to arc transition	current	< 0.3	Α
Glow voltage		~ 60	V
Weight		~ 1	g
Operation and storage temperature		-40 +125	°C
Climatic category (IEC	C 60068-1)	40/125/21	
Marking, red positive		EPCOS EM 600 YY EM - Series 600 - Nominal voltage YY - Year of product O - Non radioactive	e iion
Certifications		UL 1449 (E319264)	c PL °us
	-	-	

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

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

PPD AB PD / PPD AB PM Version: 04 / 2019-07-19

²⁾ In ionized mode

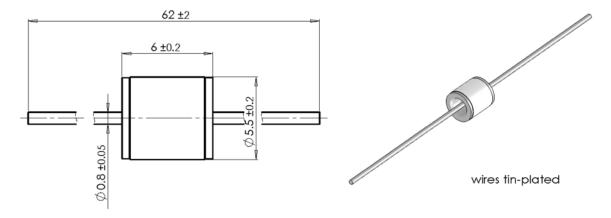


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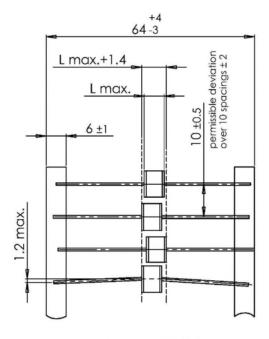
EM600X

Dimensional drawing in mm

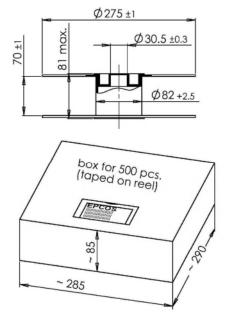


Ordering codes and packing advices

B88069X2593**T502** = 500 pcs. on tape and reel



tape acc. to IEC 60286-1



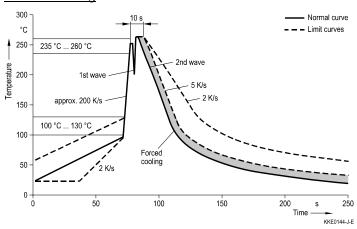


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Soldering parameter

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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Important notes

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