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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# Surge arrester

# 2-electrode arrester

Series/Type: M50-C90X

Ordering code: B88069X1590C253

Date: 2015-08-03

Version: 04

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Surge arrester B88069X1590C253

## 2-electrode arrester M50-C90X

#### **Features**

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

## **Applications**

- Modem
- XDSL-splitter
- Data lines
- Tuner
- Antenna

#### **Electrical specifications**

DC spark-over voltage 1) 2)	90	V
Tolerance	±20	<b>v</b> %
Min.	72	v
Max.	108	v
Impulse spark-over voltage		
at 100 V/µs - for 99% of measured values	< 550	V
- typical values of distribution	< 500	V
at 1 kV/µs - for 99% of measured values	< 600	V
- typical values of distribution	< 550	V
Service life		
10 operations 50 Hz, 1 s	5	Α
1 operations 50 Hz, 0.18 s (9 cycles)	10	Α
10 operations 8/20 μs	5	kA
1 operation 8/20 μs	10	kA
1 operation 10/350 μs	0.5	kA
300 operations 10/1000 μs	100	Α
Insulation resistance at 50 V <sub>DC</sub>	> 1	$G\Omega$
Capacitance at 1 MHz	< 1	рF
Arc voltage at 1 A	~ 15	V
Glow to arc transition current	< 0.8	Α
Glow voltage	~ 60	V
Weight	~ 1	g
Operation and storage temperature	-40 +90	°C
Climatic category (IEC 60068-1)	40/090/21	<u> </u>
Marking, blue negative	EPCOS 90 YY O 90 - Nominal voltage YY - Year of production O - Non radioactive	
Certifications	UL 497B (E163070)	R

<sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859

Terms in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

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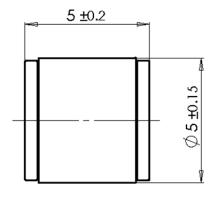
<sup>2)</sup> In ionized mode



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# Dimensional drawing in mm

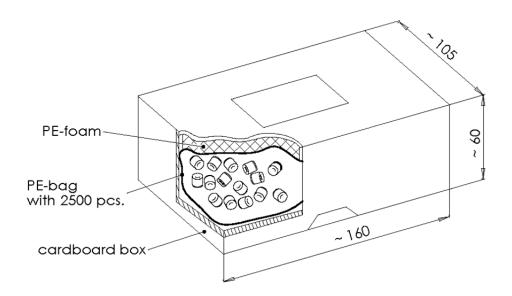




nickel-plated

# Ordering code and packing advice

B88069X1590**C253** = 2500 pcs. in container



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2-electrode arrester M50-C90X

## **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.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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