

Surge arrester

2-electrode arrester

Series/Type: Ordering code: M51-C90X

B88069X5010****

Version/Date: Issue 09 / 2013-09-25

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2-electrode arrester M51-C90X

Features

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

Applications

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

Electrical specifications

1) 2)	1	
DC spark-over voltage 1) 2)	90	V
	± 20	%
Impulse spark-over voltage		
at 100 V/µs - for 99% of measured values	< 400	V
 typical values of distribution 	< 300	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 operation 50 Hz, 0.18 s (9 cycles)	10	Α
10 operations 8/20 μs	5	kA
1 operation 8/20 µs ³⁾	10	kA
1 operation 10/350 μs	0.5	kA
300 operations 10/1000 μs	100	Α
Insulation resistance at 50 V _{DC}	> 1	$G\Omega$
Capacitance at 1 MHz	< 1	pF
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/ 90/ 21	
Marking, blue negative	EPCOS 90 YY O 90 - Nominal voltage YY - Year of production O - Non radioactive	

¹⁾ 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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²⁾ In ionized mode

³⁾ Electrical specifications may vary after stress test but device will remain in a safe mode

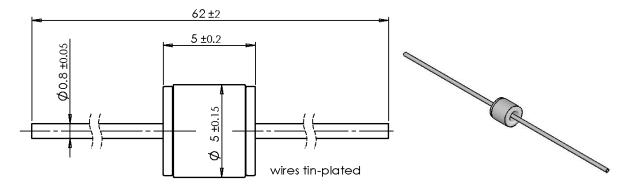


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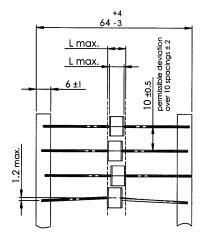
Dimensional drawing in mm

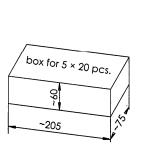


Ordering codes and packing advices

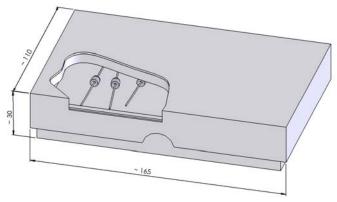
B88069X5010**S102** = 100 pcs. on 5 taped stripes

B88069X5010**C102** = 100 pcs. in container





tape acc. to IEC 60286-1



Cautions and warnings

- Surge arresters must not be operated directly in power supply networks.
- Surge arresters may become hot in case of longer periods of current stress (danger of burning).
- Surge arresters may be used only within their specified values. In case of overload, the lead contacts may fail or the component may be destroyed.
- Surge arresters must be handled with care and must not be dropped.
- Damaged surge arresters must not be re-used.

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