



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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: M51-C90XF
Ordering code: B88069X2351C102
Version/Date: Issue 01 / 2012-04-12

Features

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

Applications

- Branch exchange (MDF)
- Subscriber protection
- Line protection
- Consumer electronics
- Alarm systems

Electrical specifications

DC spark-over voltage ^{1) 2)}	90 ± 20	V %
Impulse spark-over voltage at 100 V/μs - for 99% of measured values - typical values of distribution at 1 kV/μs - for 99% of measured values - typical values of distribution	< 550 < 500 < 600 < 550	V V V V
Service life 10 operations 50 Hz, 1 s 5 operations 50 Hz, 1 s 1 operation 50 Hz, 0.18 s (9 cycles) 10 operations 8/20 μs 1 operation 8/20 μs	2.5 5 10 5 7.5	A A A kA kA
Insulation resistance at 50 V _{DC}	> 1	GΩ
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 15 ~ 0.8 ~ 60	V A V
Weight	~ 1	g
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	

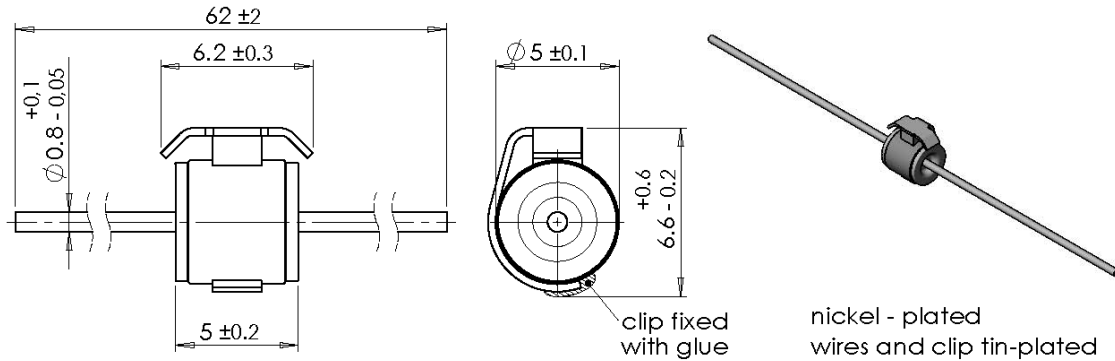
¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859

²⁾ In ionized mode

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

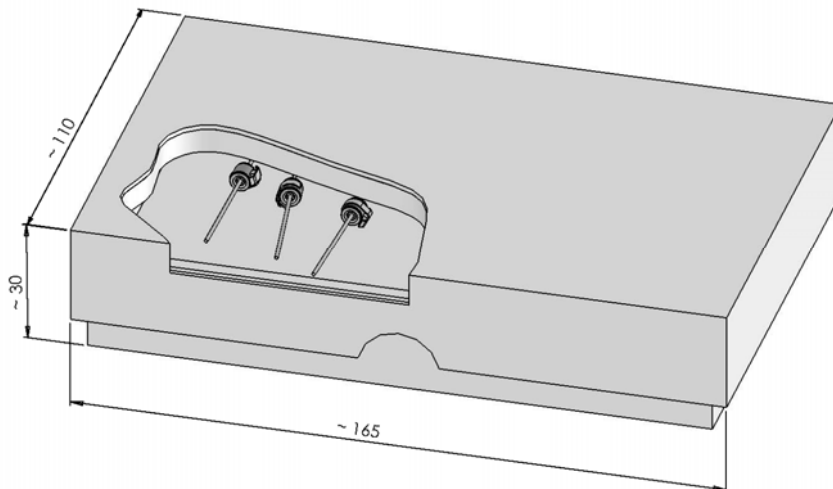
The arrester failsafe mechanism contains a solder pellet with a melting temperature between 193 and 203 °C.

Dimensional drawing in mm



Ordering code and packing advice

B88069X2351C102 = 100 pcs. in container



Cautions and warnings

- The short circuit spring does not trigger until $180\text{ }^{\circ}\text{C}$ is reached depending on the material. Care must be taken to limit the thermal radiation onto adjacent parts to safe values.
- Surge arresters must not be operated directly in power supply networks.
- Surge arresters may become hot in the event of longer periods of current stress (danger of burning).
- Surge arresters may be used only within their specified values. In the event of overload, the head contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

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The following applies to all products named in this publication:

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