

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: G31-A300X Ordering code: B88069X2203****

Version/Date: Issue 03 / 2013-02-07

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Surge arrester B88069X2203****

2-electrode arrester G31-A300X

Features

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

Applications

- Ethernet, PoE, xDSL
- Cable modem, splitter, line cards
- CCTV
- Applications with limited space

Electrical specifications

DC spark-over voltage 1) 2)	300 ± 20	V %
Impulse spark-over voltage		
at 100 V/µs - for 99% of measured values - typical values of distribution	< 900 < 600	V
at 1 kV/µs - for 99% of measured values - typical values of distribution	< 1200 < 800	V
Service life 3)		
10 operations [5× (+) & 5× (-)] 8/20 μs	1	kA
1 operation 8/20 μs	2	kA
Insulation resistance at 100 V _{DC}	> 1	$G\Omega$
Capacitance at 1 MHz	< 0.5	pF
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 10 < 1.0 ~ 60	V A V
Weight	~ 0.2	g
Operation and storage temperature	-40 +125	°C
Climatic category (IEC 60068-1)	40/ 125/ 21	
Marking	without	

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

Terms and current waveforms in accordance with ITU-T Rec. K. 12; IEC 61663-2, IEC 61643-21 and IEC 61643-311.

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²⁾ In ionized mode

Tests according to ITU-T Rec. K. 12 and UL 497B

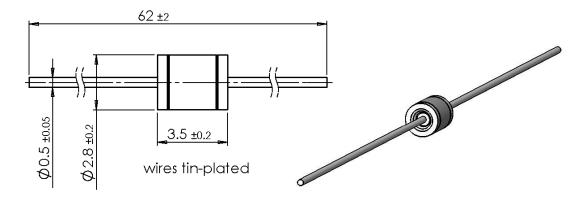


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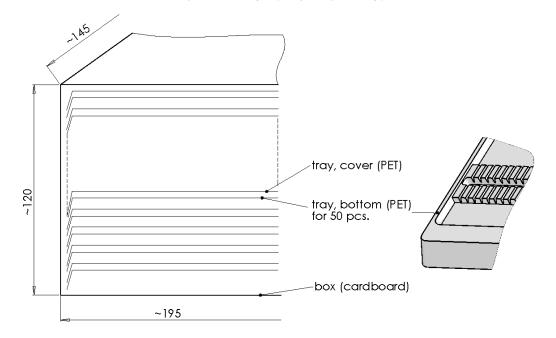
G31-A300X

Dimensional drawing in mm



Ordering codes and packing advices

B88069X2203**B502** = 500 pcs. on trays (50 pcs. per tray)



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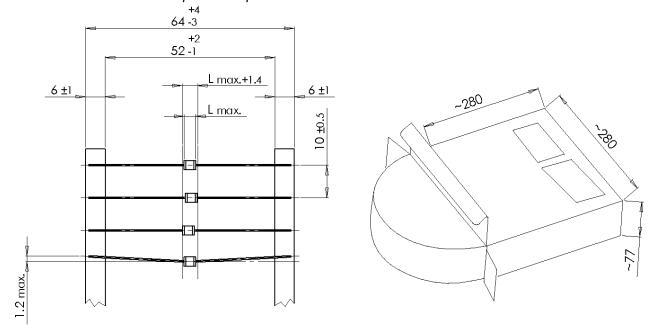


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2-electrode arrester

G31-A300X

B88069X2203**T103** =1000 pcs. on tape and reel



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 the event of overload, the lead contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.



Important notes

The following applies to all products named in this publication:

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