

Surge arrester

2-electrode arrester

Series/Type: G31-A500X Ordering code: B88069X2233****

Version/Date: Issue 02 / 2013-08-01

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2-electrode arrester G31-A500X

Features

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

Applications

- ESD protection
- Applications with limited space

Electrical specifications

DC spark-over voltage 1) 2)	500	V
	± 30	%
Impulse spark-over voltage		
at 100 V/µs - for 99% of measured values - typical values of distribution	< 1200 < 1000	V V
at 1 kV/µs - for 99% of measured values - typical values of distribution	< 1400 < 1200	V
Service life 3)		
10 operations [5× (+) & 5× (-)] 8/20 μs	1	kA
1 operation 8/20 µs	2	kA
300 operations 8/20 µs	100	Α
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

³⁾ Tests according to ITU-T Rec. K. 12 and UL 497B

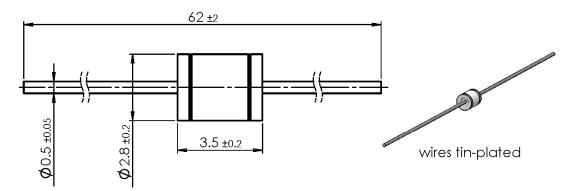


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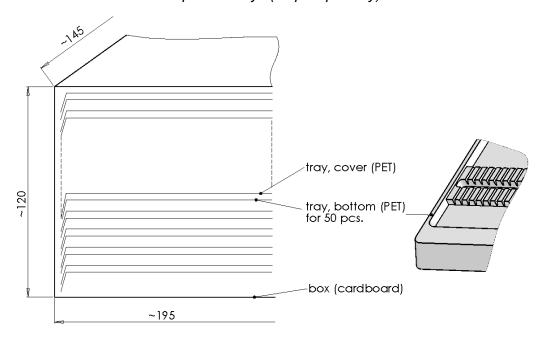
G31-A500X

Dimensional drawing in mm



Ordering codes and packing advices

B88069X2233**B502** = 500 pcs. on trays (50 pcs. per tray)



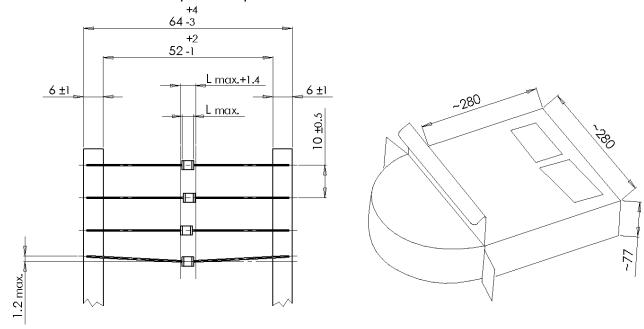


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G31-A500X

B88069X2233**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.

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