

2-electrode arrester

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

B88069X2233****

Surge arrester

2-electrode arrester

Features

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

Electrical specifications

Applications

- ESD protection
- Applications with limited space

Electrical specifications		
DC spark-over voltage ^{1) 2)}	500	V
Tolerance	±30	%
Min.	350	VV
Max.	650	V
Impulse spark-over voltage		
at 100 V/µs - for 99% of measured values	< 1200	V
 typical values of distribution 	< 1000	V
at 1 kV/µs - for 99% of measured values	< 1400	V
 typical values of distribution 	< 1200	V
Service life ³⁾		
300 operations 8/20 µs	100	А
10 operations [5x (+) & 5x (–)] 8/20 μs	1	kA
1 operation 8/20 µs	2	kA
Insulation resistance at 100 V_{DC}	> 1	GΩ
Capacitance at 1 MHz	< 0.5	pF
Arc voltage at 1 A	~ 10	V
Glow to arc transition current	< 1.0	A
Glow voltage	~ 60	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

²⁾ In ionized mode

³⁾ Tests according to ITU-T Rec. K. 12 and UL 1449

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



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Dimensional drawing in mm



Ordering codes and packing advices

B88069X2233B502 = 500 pcs. on trays (50 pcs. per tray)





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G31-A500X

B88069X2233T103 =1000 pcs. on tape and reel

PPD AB PD / PPD AB PM



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Soldering parameter

Wave soldering



Wave profile features	Pb-free assembly
Solder	Sn 95.5 / Ag 3.8 / Cu 0.7
Solder bath temperature	263 (±3) °C
Dwell time	< 3 s

Soldering profile applied to a single soldering process.

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.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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