

Surge arrester

2-electrode arrester

Series/Type: G31-A90X

Ordering code: B88069X9361****

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Version: 05

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2-electrode arrester G31-A90X

Features

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

Applications

- ESD protection
- Applications with limited space

Electrical specifications

Licotrical specifications			
DC spark-over voltage 1) 2) Tolerance Min. Max.		90 ±20 72 108	V % V V
Impulse spark-over voltage at 100 V/µs - for 99% of measured values - typical values of distribution		< 400 < 300	V
at 1 kV/µs - for 99% of measured values - typical values of distribution		< 650 < 600	V
Service life 3)			
300 operations	8/20 µs	100	Α
10 operations [5x (+) & 5x (-)]	8/20 µs	1	kA
1 operation	8/20 µs	2	kA
200 operations	contact discharge 4)	500	Α
Insulation resistance at 50 V _{DC}		> 1	$G\Omega$
Capacitance at 1 MHz		< 0.5	pF
Arc voltage at 1 A		~ 10	V
Glow to arc transition current		< 1	Α
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

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

²⁾ In ionized mode

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

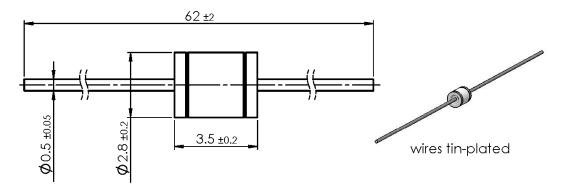
⁴⁾ Contact discharge parameters: 1500 pF, 10 kV, 20 Ω



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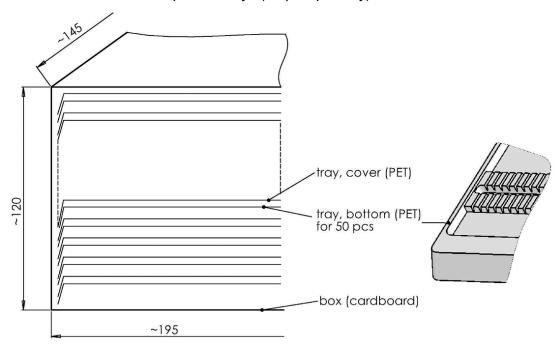
G31-A90X

Dimensional drawing in mm



Ordering codes and packing advices

B88069X9361**B502** = 500 pcs. on trays (50 pcs. per tray)

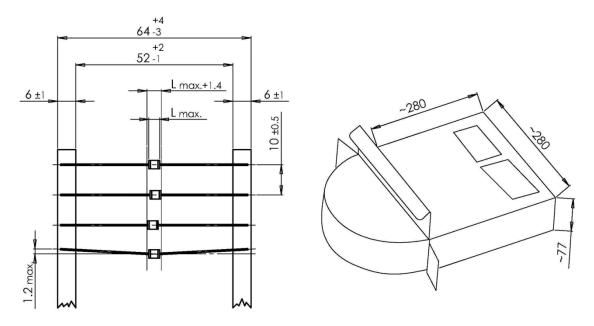




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B88069X9361**T103** =1000 pcs. on tape and reel





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Soldering parameter

Wave soldering 300 Normal curve °C - Limit curves 250 235 °C ... 260 °C 200 1st wave approx. 200 K/s 150 100 °C ... 130 °C 100 Forced 50 100 150 KKE0144-J-E

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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Important notes

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