

# Surge arrester

2-electrode arrester

 Series/Type:
 G31-A200X

 Ordering code:
 B88069X8801\*\*\*\*

 Version/Date:
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#### Surge arrester

#### 2-electrode arrester

Features

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

#### **Electrical specifications**

#### Applications

- ESD protection
- Applications with limited space

DC spark-over voltage <sup>1) 2)</sup>			200 ± 20	V %
Impulse spark-over volta	age			
at 100 V/µs - for 99% of measured values			< 750	V
	<ul> <li>typical values of distribution</li> </ul>		< 500	V
at 1 kV/µs	- for 99% of measured values		< 950	V
•	<ul> <li>typical values of distribution</li> </ul>		< 700	V
Service life 3)				
300 operations	5	8/20 µs	100	А
10 operations [5× (+) & 5× (–)] 8/20 μs			1	kA
1 operation 8/20 µs			2	kA
200 operations (discharge)		1500 pF; 10 kV; 0 $\Omega$	1.5 × 10 ⁻⁵	As
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	А
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	

<sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859 <sup>2)</sup> In ionized mode

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

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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# **②TDK**

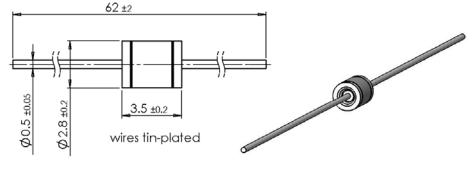
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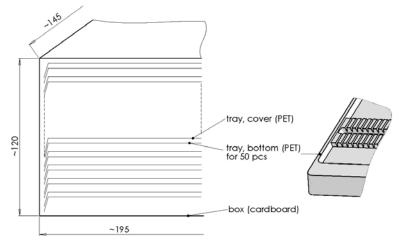
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#### Dimensional drawing in mm

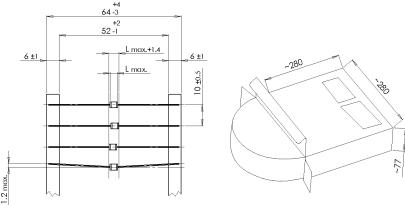


### Ordering code and packing advices

B88069X8801**B502** = 500 pcs. on trays



#### B88069X8801**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 case of overload, the lead contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.
   PPD AB PD / PPD AB PM

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