



Surge arrester

2-electrode arrester

Series/Type: A81-A500XB4
Ordering code: B88069X1813B352
Version/Date: Issue 01 / 2012-08-06

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Features

- Standard size
- Very fast response time
- High current rating
- Stable performance over life
- Very low capacitance
- High insulation resistance
- RoHS-compatible

Applications

- Line protection
- Consumer electronics

Electrical specifications

DC spark-over voltage ^{1) 2)}	500 ± 20	V %
Impulse spark-over voltage at 100 V/μs - for 99% of measured values - typical values of distribution at 1 kV/μs - for 99% of measured values - typical values of distribution	< 1000 < 900 < 1100 < 1000	V V V V
Service life ³⁾ 10 operations 50 Hz, 1 s 1 operation 50 Hz, 0.18 s (9 cycles) 10 operations 8/20 μs 250 operations 8/20 μs 1 operation 10/350 μs	20 100 20 3 2.5	A A kA kA kA
Insulation resistance at 250 V _{DC}	> 10	GΩ
Capacitance at 1 MHz	< 1.5	pF
Arc voltage at 1 A	~ 10	V
Glow to arc transition current	~ 0.8	A
Glow voltage	~ 60	V
Weight	~ 1.5	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, blue negative	EPCOS 500 YY O 500 - Nominal voltage YY - Year of production O - Non radioactive	

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

²⁾ In ionized mode

³⁾ After service life:

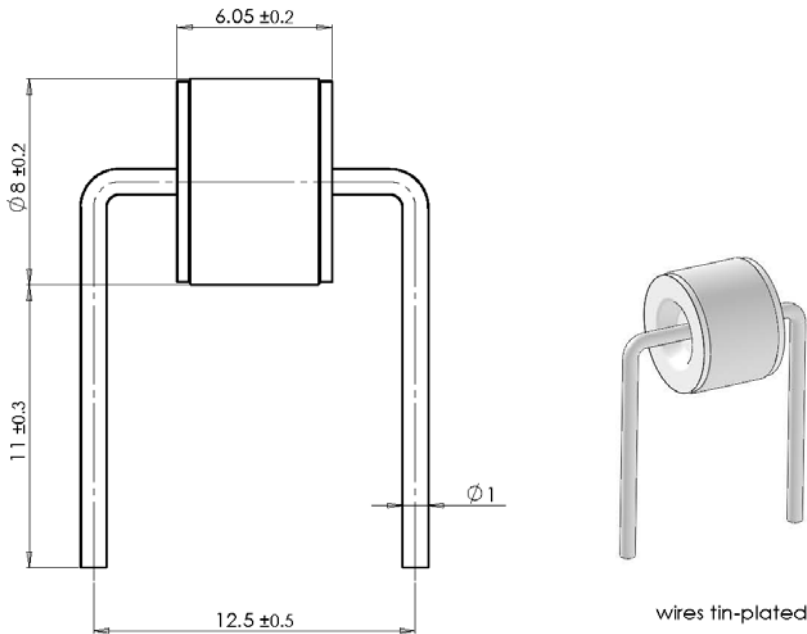
- DC spark-over voltage 500 ± 30%

- Impulse spark-over voltage at 100 V/μs < 1150 V; at 1 kV/μs < 1250 V

- Insulation resistance IR > 100 MΩ

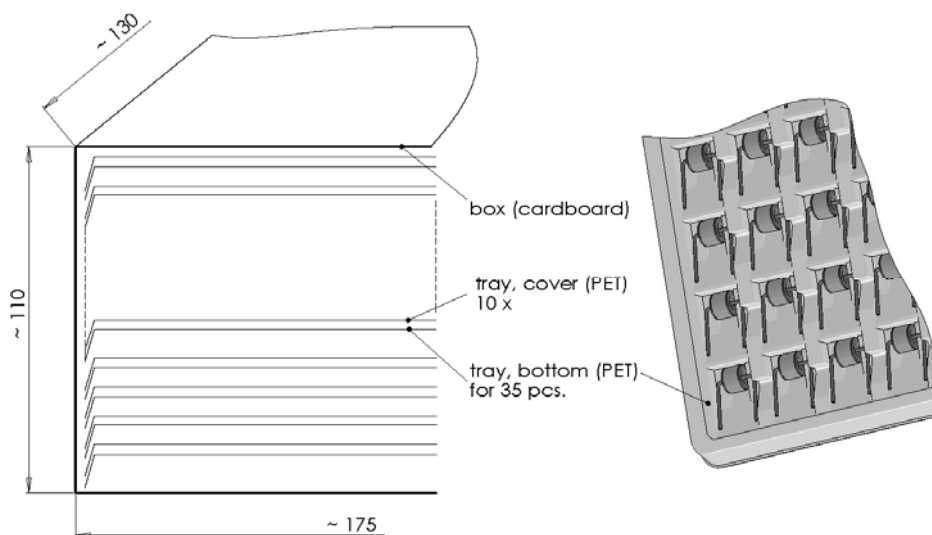
Terms in accordance with ITU-T Rec. K.12 and IEC 61663-2 and IEC 61643-311.

Dimensional drawing in mm



Ordering code and packing advice

B88069X1813B352 = 350 pcs. in trays



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 head 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:

1. Some parts of this publication contain **statements about the suitability of our products for certain areas of application**. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out **that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application**. As a rule we are either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether a product with the properties described in the product specification is suitable for use in a particular customer application.
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