2-electrode arrester

Series/Type: **EF2500X**
Ordering code: **B88069X5690xxxx** [a)]

Version/Date: Issue 03 / 2008-01-18

Features	Applications
▪ Standard size ▪ High follow current capability ▪ Very fast response time ▪ Stable performance over life ▪ Very low capacitance ▪ High insulation resistance ▪ RoHS-compatible	▪ Application with high follow current ▪ Power supply

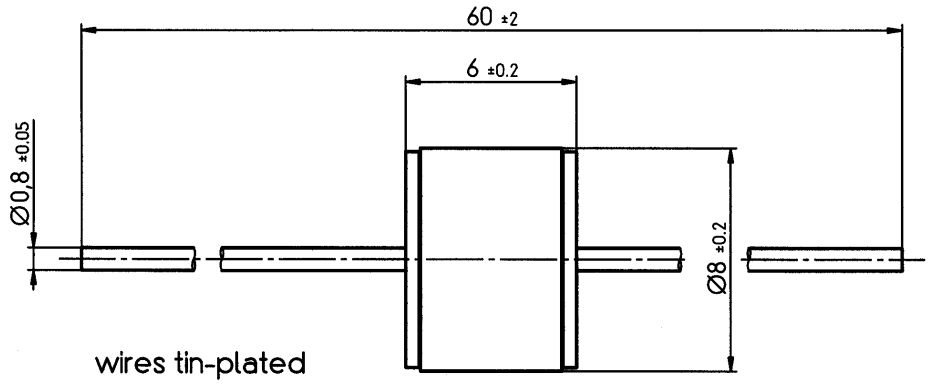
Electrical specifications

DC spark-over voltage [1) 2)]	2500 ± 20	V %
Impulse spark-over voltage		
at 100 V/µs - for 99 % of measured values	< 3700	V
- typical values of distribution	< 3300	V
at 1 kV/µs - for 99 % of measured values	< 4500	V
- typical values of distribution	< 3700	V
Service life		
10 operations 50 Hz, 1 s	2.5	A
1 operation 50 Hz, 0.18 s (9 cycles)	10	A
10 operations 8/20 µs	2.5	kA
1 operation 8/20 µs	2.5	kA
Max. follow current during one voltage half cycle at 50 Hz	200	A
Insulation resistance at 100 V_{dc}	> 10	GΩ
Capacitance at 1 MHz	< 1.5	pF
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 22 < 0.5 ~ 140	V A V
Weight	~ 1.5	g
Operation and storage temperature	-40 ... +90	℃
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, red positive	**EPCOS EF 2500 YY O** EF - Series 2500 - Nominal voltage YY - Year of production O - Non radioactive	

[a)] xxxx = S102 (100 pcs on 5 stripes)
= T502 (500 pcs on tape and reel)

[1)] At delivery AQL 0.65 level II, DIN ISO 2859
[2)] In ionized mode
Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

Dimensional drawing



Not to scale

Dimensions in mm

Non controlled document

Cautions and warnings

- Surge arrester must be selected so that the maximum expected follow current can be quenched.
- The follow current must be limited so that the arrester can be properly extinguished when the surge has decayed. The arrester might otherwise heat up and ignite adjacent components.
- 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, EPCOS is 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 an EPCOS product with the properties described in the product specification is suitable for use in a particular customer application.
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3. **The warnings, cautions and product-specific notes must be observed**.
4. In order to satisfy certain technical requirements, **some of the products described in this publication may contain substances subject to restrictions in certain jurisdictions (e.g. because they are classed as hazardous)**. Useful information on this will be found in our Material Data Sheets on the Internet (www.epcos.com/material). Should you have any more detailed questions, please contact our sales offices.
5. We constantly strive to improve our products. Consequently, **the products described in this publication may change from time to time**. The same is true of the corresponding product specifications. Please check therefore to what extent product descriptions and specifications contained in this publication are still applicable before or when you place an order.

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