Surge arrester

3-electrode arrester

Series/Type:	**T83-A350X**
Ordering code:	**B88069X8690B502**
Version/Date:	Issue 07 / 2011-01-28

EPCOS AG is a TDK Group Company.

Surge arrester — B88069X8690B502

3-electrode arrester — T83-A350X

Features

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

Applications

- Line protection
- Station protection
- Branch exchange (MDF)

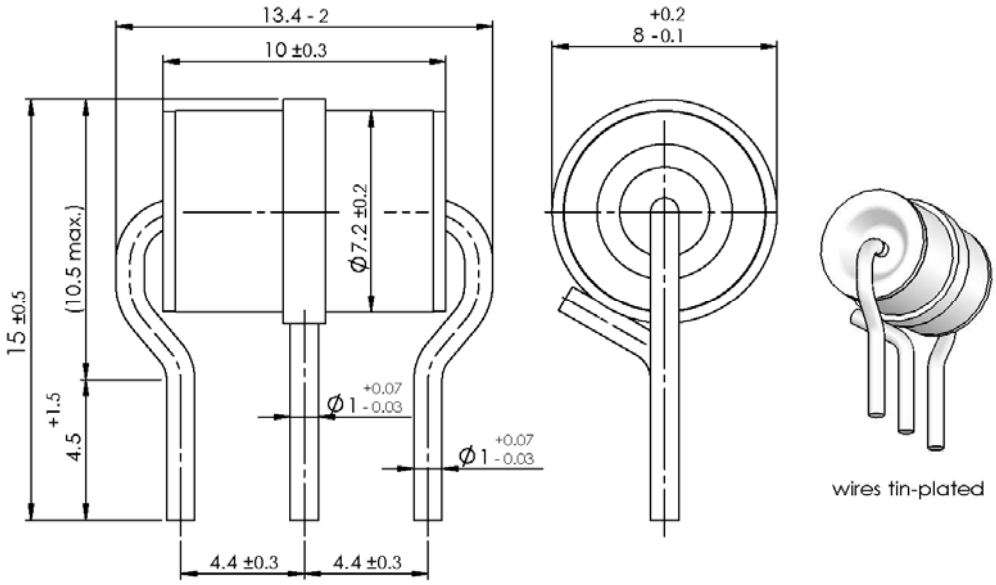
Electrical specifications

DC spark-over voltage [1) 2) 3)]	350 ± 20	V %
Impulse spark-over voltage [3)]		
at 100 V/µs - for 99 % of measured values	< 700	V
at 100 V/µs - typical values of distribution	< 600	V
at 1 kV/µs - for 99 % of measured values	< 900	V
at 1 kV/µs - typical values of distribution	< 800	V
Service life [4)]		
10 operations 50 Hz, 1 s	10	A
1 operations 50 Hz, 0.18 s (9 cycles)	50	A
10 operations 8/20 µs	10	kA
1 operation 8/20 µs	15	kA
1 operation 10/350 µs	5	kA
300 operations 10/1000 µs	200	A
Insulation resistance at 100 V_{DC} [3)]	> 10	GΩ
Capacitance at 1 MHz [3)]	< 1.5	pF
Transverse delay time [5)]	< 0.2	µs
Arc voltage at 1 A	~ 30	V
Glow to arc transition current	~ 1	A
Glow voltage	~ 200	V
Weight	~ 2	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, red negative	**EPCOS** **350 YY O** 350 - 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) Tip or ring electrode to center electrode
4) Total current through center electrode, half value through tip respectively ring electrode.
5) Test according to ITU-T Rec. K.12

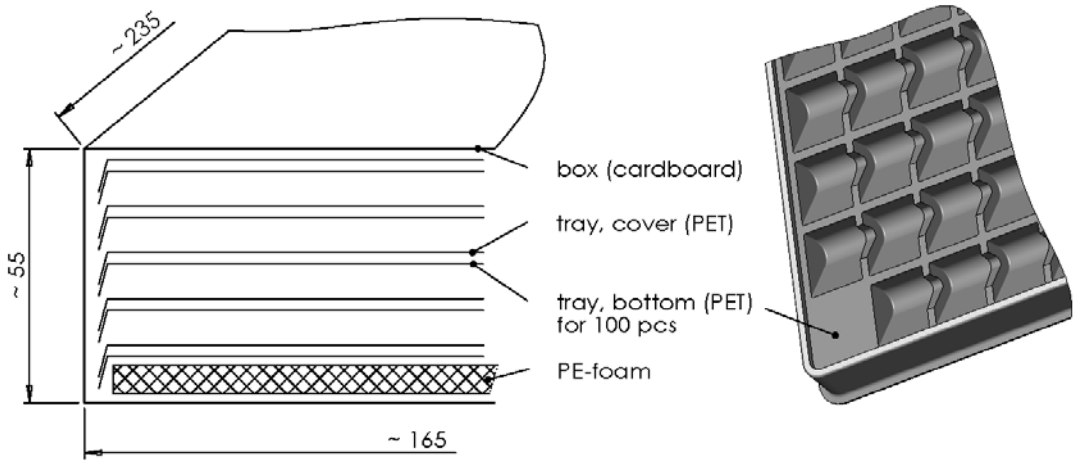
Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

Dimensional drawing in mm



Ordering code and packing advice

*B88069X8690**B502** = 500 pcs on 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.

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