imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Surge arrester

3-electrode arrester

 Series/Type:
 T83-A150XF1

 Ordering code:
 B88069X9930B502

 Version/Date:
 Issue 06 / 2006-06-22

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Surge arrester

3-electrode arrester

B88069X9930B502

T83-A150XF1

Features	Applications
 Standard size 	 Branch exchange (MDF)
 Fast response time 	 Line protection
 High current rating 	 Station protection
 Stable performance over life 	
 Very low capacitance 	
 High insulation resistance 	
 Reliable failsafe device 	
 RoHS-compatible 	

Electrical specifications

DC spark-over voltage ^{1) 2) 4)}	150 ± 20	V %
Impulse spark-over voltage ⁴⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution	< 450 < 400	V V
at 1 kV/µs - for 99 % of measured values - typical values of distribution	< 550 < 500	V V
Nominal impulse discharge current (wave 8/20 μ s) ⁵⁾ Single impulse discharge current (wave 8/20 μ s) ⁵⁾	10 15	kA kA
Nominal alternating discharge current (50 Hz, 1 s) ⁵⁾ Alternating discharge current (50 Hz, 9 cycles) ⁵⁾	10 40	A A
Insulation resistance at 100 V_{dc} 4)	> 10	GΩ
Capacitance at 1 MHz 4)	< 1.5	pF
Transverse delay time 3)	< 0.2 µs	
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 15 ~ 0.6 ~ 60	V A V
Weight	~ 2.2	g
Storage temperature	-40 +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, red negative	EPCOS 150 YY O 150 - Nominal voltage YY - Year of production O - Non radioactive	

公TDK

Surge arrester

3-electrode arrester

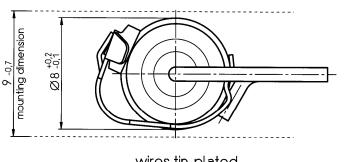
B88069X9930B502 T83-A150XF1

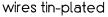
- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- ²⁾ In ionized mode
- ³⁾ Test according to ITU-T Rec. K.12
- ⁴⁾ Tip or ring electrode to center electrode
- ⁵⁾ Total current through center electrode, half value through tip respectively ring electrode.

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

The arrester failsafe mechanism contains a solder pellet with a melting temperature range from 193 to 203 °C.

Dimensional Drawing





Ø7,2 ±0,2

(12 max.)

16,5 -0.7

Not to scale

Ø1 -0.03

-0,07 0,03

ğ

4 ±0.3

±0,3

4

Dimensions in mm

Non controlled document



10 ±0,3

13,4 -2 11,5 ±0,3

The short-circuit spring does not trigger until 180 °C is reached depending on the material. Care
must be taken to limit the thermal radiation onto adjacent parts to safe values.

<u>4,</u>5 ^{+1,5}

- 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.

KB AB E / KB AB PM

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