

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-A420X

Ordering code: B88069X7960B502

Version/Date: Issue 06 / 2008-07-21

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Surge arrester B88069X7960B502

3-electrode arrester T83-A420X

Features	Applications
 Standard size 	Line protection
 Fast response time 	 Station protection
 Very high current rating 	 Base stations
 Stable performance over life 	
 Very low capacitance 	
 High insulation resistance 	
 RoHS-compatible 	

Electrical specifications

DC spark-over voltage 1) 2) 4)		420 ± 20	V %
Impulse spark-over voltage ⁴⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution		< 850 < 700	V
at 1 kV/μs - for 99 % of measured values - typical values of distribution		< 950 < 850	V
Service life 10 operations 1 operation 10 operations [5× (+) & 5× (- 1 operation 1 operation Insulation resistance at 100 V _{dc} ⁴⁾	50 Hz, 1 s ⁵⁾ 50 Hz, 0.18 s (9 cycles) ⁵⁾ 9)] 8/20 μs ⁵⁾ 8/20 μs ⁵⁾ 10/350 μs ⁵⁾	10 40 10 30 2 > 10	A A kA kA kA
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		~ 30 < 1 ~ 200	V A V
Weight		~ 2	g
Operation and storage temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, red negative		EPCOS 420 YY M O 420 - Nominal voltage YY - Year of production M - Month of productio (1 9 = Jan Se O D = Oct De O - Non radioactive	n p;

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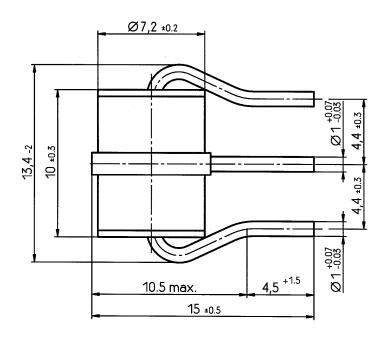
Surge arrester B88069X7960B502

3-electrode arrester T83-A420X

- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- Test according to ITU-T Rec. K.12
- 4) Tip or ring electrode to center electrode
- 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

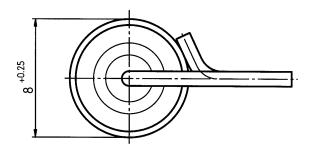
Dimensional drawing



Not to scale

Dimensions in mm

Non controlled document



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.

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