

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: EZ3-A90X Ordering code: B88069X49

Ordering code: B88069X4991B502

Version/Date: Issue 03 / 2007-09-06



Surge arrester B88069X4991B502

3-electrode arrester EZ3-A90X

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

Electrical specifications

DC spark-over voltage 1) 2) 4)		90 ± 20	V %
Impulse spark-over voltage ⁴⁾ at 100 V/μs - for 99 % of measured values		< 450 < 350	V
- typical values of	 typical values of distribution 		V
	for 99 % of measured valuestypical values of distribution		V
Service life			
10 operations	50 Hz, 1 s ⁵⁾	5	Α
1 operation	$50 \text{ Hz}, 0.18 \text{ s}^{5)}$	5	Α
10 operations [5x (+) & 5x (-)]	8/20 μs ⁵⁾	5	kA
1 operation	10/350 μs ⁵⁾	1	kA
300 operations (alternating polarity)) 10/1000 μs ⁵⁾	200	Α
Insulation resistance at 50 $V_{dc}^{4)}$		> 1	$G\Omega$
Capacitance at 1 MHz ⁴⁾		< 1.5	pF
DC holdover voltage 3)			
at 135 V_{dc} / 1300 Ω		< 150	ms
Transverse delay time 3)		< 0.2	μs
Arc voltage at 1 A		~ 10	V
Glow to arc transition current		~ 1	Α
Glow voltage		~ 80	V
Weight		~ 1.0	g
Operation and storage temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, blue negative		EPCOS EZ 90 YY O EZ - Series 90 - Nominal voltage YY - Year of production O - Non radioactive	

KB AB E / KB AB PM Issue 03 / 2007-09-06



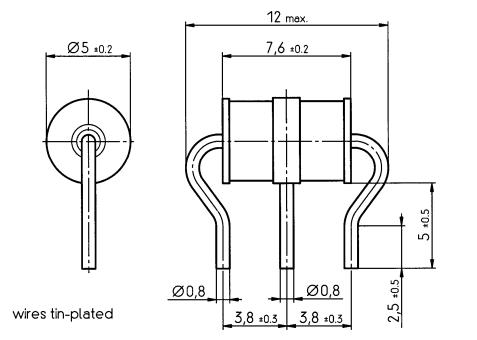
Surge arrester B88069X4991B502

3-electrode arrester EZ3-A90X

- 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 head contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

KB AB E / KB AB PM Issue 03 / 2007-09-06



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