

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: T31-A230X

 Ordering code:
 B88069X3130xxxx a)

 Version/Date:
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Surge arrester B88069X3130xxxx a)

3-electrode arrester T31-A230X

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

Electrical specifications

DC spark-over voltage 1) 2) 4)		230 ± 20	V %
Impulse spark-over voltage ⁴⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution		< 400 < 350	V
•	% of measured values values of distribution	< 450 < 420	V
Service life			
10 operations	50 Hz; 1 s ⁵⁾	10	Α
1 operation	50 Hz; 0.18 s (9 cycles) 5)	30	Α
10 operations [5x (+) & 5	x (-)] 8/20 μs ⁵⁾	10	kA
1 operation	8/20 μs ⁵⁾	12	kA
2 operations [1x (+) & 1	x (-)] 10/350 μs ⁵⁾	2	kA
Insulation resistance at 100 $\ensuremath{V_{\text{dc}}}$	4)	> 10	$G\Omega$
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		~ 1.4	g
Operation and storage temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, blue negative		EPCOS 230 YY O 230 - Nominal voltage YY - Year of production O - Non radioactive	

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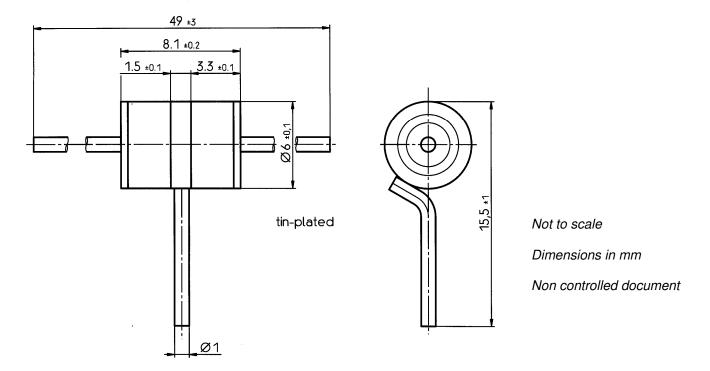
Surge arrester B88069X3130xxxx ^{a)}

3-electrode arrester T31-A230X

- a) xxxx = B102 (100 pcs. on tray) = B252 (250 pcs. on tray)
- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Test according to ITU-T Rec. K.12
- Tip or ring electrode to center electrode
- ⁵⁾ Total current through center electrode, half value through tip respectively ring electrode.

Terms and current waveforms in accordance with ITU-T Rec. K.12; IEC 61643-21 and DIN 57845/VDE0845

Dimensional drawing



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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