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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-A350X

Ordering code: B88069X3090B252

Version/Date: Issue 05 / 2007-03-29

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Surge arrester B88069X3090B252

## 3-electrode arrester T31-A350X

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

## **Electrical specifications**

DC spark-over voltage	e <sup>1) 2) 4)</sup>		350 ± 20	V %
Impulse spark-over voltage <sup>4)</sup> at 100 V/µs - for 99 % of measured values - typical values of distribution		< 800 < 650	V	
at 1 kV/μs	<ul><li>for 99 % of measured values</li><li>typical values of distribution</li></ul>		< 900 < 700	V V
Service life				
10 operations	3	50 Hz; 1 s <sup>5)</sup>	10	Α
1 operation		50 Hz; 0.18 s (9 cycles) 5)	30	Α
10 operations	5 [5x (+) & 5x (-)]	8/20 μs <sup>5)</sup>	10	kA
1 operation		8/20 μs <sup>5)</sup>	10	kA
1 operation		10/350 μs <sup>5)</sup>	2	kA
Insulation resistance at 100 V <sub>dc</sub> <sup>4)</sup>			> 10	$G\Omega$
Capacitance at 1 MHz	, 4)		< 1.5	pF
Transverse delay time	; <sup>3)</sup>		< 0.2	μs
Arc voltage at 1 A Glow to arc transition Glow voltage	current		~ 30 ~ 1 ~ 200	V A V
Weight			~ 1.4	g
Operation and storage	e temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21		
Marking, blue negative	Э		EPCOS 350 YY O 350 - Nominal voltage YY - Year of production O - Non radioactive	

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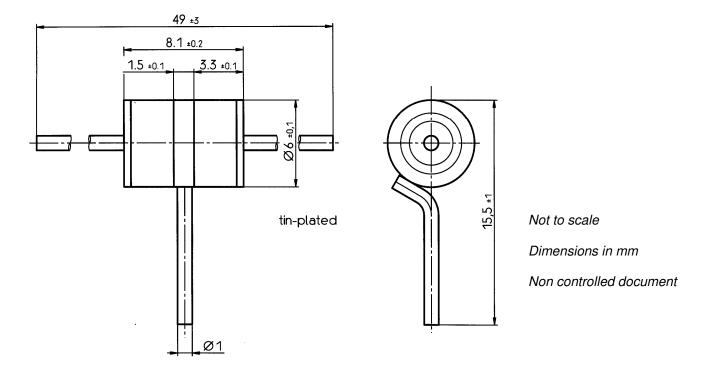
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### 3-electrode arrester T31-A350X

- 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
- 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**



#### **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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