

# Surge arrester

3-electrode arrester

Series/Type: Ordering code: T30-A260X

B88069X3020xxxx a) Version/Date: Issue 05 / 2007-10-31



Surge arrester B88069X3020xxxx a)

3-electrode arrester T30-A260X

Features	Applications
<ul> <li>Very small size</li> </ul>	<ul> <li>Line protection</li> </ul>
<ul> <li>Very fast response time</li> </ul>	<ul> <li>Station protection</li> </ul>
<ul> <li>High current rating</li> </ul>	<ul> <li>Base stations</li> </ul>
<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**

Liectrical specifications		
DC spark-over voltage <sup>1) 2) 3)</sup> DC spark-over voltage <sup>3) 5)</sup> DC spark-over voltage <sup>2) 4)</sup>	208 312 208 338 208 400	V V V
Impulse spark-over voltage at 1 kV/µs - for 99 % of measured values <sup>3)</sup> - for 50 % of measured values <sup>3)</sup>	< 550 < 450	V
Insulation resistance at 100 V <sub>dc</sub> <sup>3)</sup>	> 10	$G\Omega$
Capacitance at 1 MHz <sup>3)</sup>	< 1.5	pF
Service life 10 operations 50 Hz; 1 s $^{7)}$ 10 operations 50 Hz; 1 s $^{6)}$ 1 operation 50 Hz; 0.18 s (9 cycles) $^{6)}$ 1 operations 8/20 $\mu$ s $^{7)}$ 10 operations 8/20 $\mu$ s $^{6)}$ 1 operation 8/20 $\mu$ s $^{6)}$ 1 operation 10/350 $\mu$ s $^{6)}$ After service life Insulation resistance at 100 V <sub>DC</sub> $^{3)}$ DC spark-over voltage $^{2)}$ $^{3)}$ 100 DC spark-over voltage $^{2)}$ $^{3)}$ 101 Impulse spark-over voltage $^{2)}$ $^{4)}$ 1 Impulse spark-over voltage $^{3)}$ $^{3)}$ 102 $^{3)}$ 103 $^{3)}$ 104 $^{3)}$ 105 $^{3)}$ 106 $^{3)}$ 107 $^{3)}$ 108 $^{3)}$ 109 $^{3)}$ 10	5 10 30 5 10 10 2 > 100 200 390 200 500 < 650	A <sub>rms</sub> A <sub>rms</sub> A <sub>rms</sub> kA kA kA V V
Activation after reflow soldering 9)		
1 operation $U_{RMS} = 600 \text{ V}$ ; 1 s	2	A
Weight	~ 1.4	g
Operation and storage temperature	-40 +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, blue negative	EPCOS 260 YY O 260 - Nominal voltage YY - Year of production O - Non radioactive	

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#### T30-A260X 3-electrode arrester

- xxxx = C253 (bulk with 2500 pcs.) T702 (SMD-tape with 700 pcs.)
- At delivery AQL 0.65 level II, DIN ISO 2859

2) In ionized mode

3) Tip or ring electrode to center electrode

Tip to ring electrode

5) After 1 day storage in darkness for 95 % of tubes

Total current through center electrode, half value through

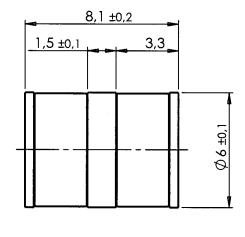
tip respectively ring electrode Total current through center electrode, same value through

tip respectively ring electrode

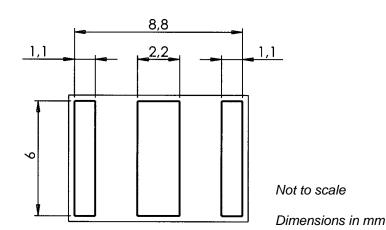
Total current from ring to tip electrode

Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE 0845

## **Dimensional drawing**



tin-plated



recommended pad outline

Non controlled document

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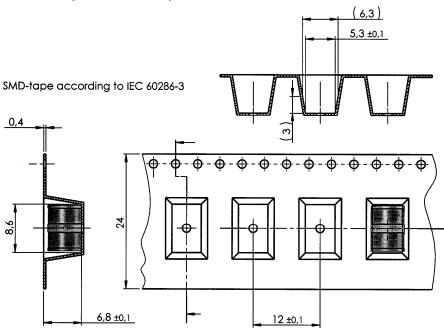


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#### Packing advice

T702 = 700 pcs on SMD tape



## **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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