



## Surge arrester

3-electrode arrester

**Series/Type:** T30-A260X  
**Ordering code:** B88069X3020xxxx <sup>a)</sup>  
Version/Date: Issue 05 / 2007-10-31

Features	Applications
<ul style="list-style-type: none"> <li>▪ Very small size</li> <li>▪ Very fast response time</li> <li>▪ High current rating</li> <li>▪ Stable performance over life</li> <li>▪ Extremely low capacitance</li> <li>▪ High insulation resistance</li> <li>▪ RoHS-compatible</li> </ul>	<ul style="list-style-type: none"> <li>▪ Line protection</li> <li>▪ Station protection</li> <li>▪ Base stations</li> </ul>

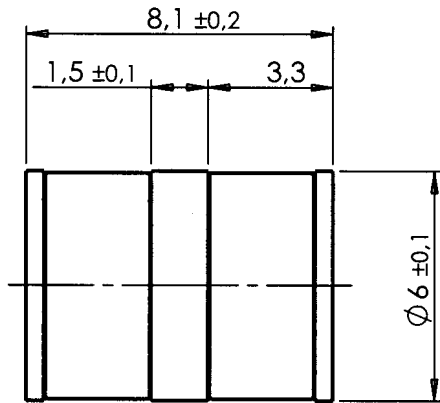
**Electrical specifications**

DC spark-over voltage <sup>1) 2) 3)</sup>	208 ... 312	V
DC spark-over voltage <sup>3) 5)</sup>	208 ... 338	V
DC spark-over voltage <sup>2) 4)</sup>	208 ... 400	V
Impulse spark-over voltage at 1 kV/ $\mu$ s - for 99 % of measured values <sup>3)</sup> - for 50 % of measured values <sup>3)</sup>	< 550 < 450	V 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 <sup>7)</sup>	5	A <sub>rms</sub>
10 operations 50 Hz; 1 s <sup>6)</sup>	10	A <sub>rms</sub>
1 operation 50 Hz; 0.18 s (9 cycles) <sup>6)</sup>	30	A <sub>rms</sub>
10 operations 8/20 $\mu$ s <sup>7)</sup>	5	kA
10 operations 8/20 $\mu$ s <sup>6)</sup>	10	kA
1 operation 8/20 $\mu$ s <sup>6)</sup>	10	kA
1 operation 10/350 $\mu$ s <sup>6)</sup>	2	kA
After service life		
Insulation resistance at 100 V <sub>DC</sub> <sup>3)</sup>	> 100	M $\Omega$
DC spark-over voltage <sup>2) 3) 10)</sup>	200 ... 390	V
DC spark-over voltage <sup>2) 4)</sup>	200 ... 500	V
Impulse spark-over voltage at 1 kV/ $\mu$ s - for 99 % of measured values <sup>3)</sup>	< 650	V
Activation after reflow soldering <sup>9)</sup>		
1 operation U <sub>RMS</sub> = 600 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	<b>EPCOS</b> <b>260 YY O</b> 260 - Nominal voltage YY - Year of production O - Non radioactive	

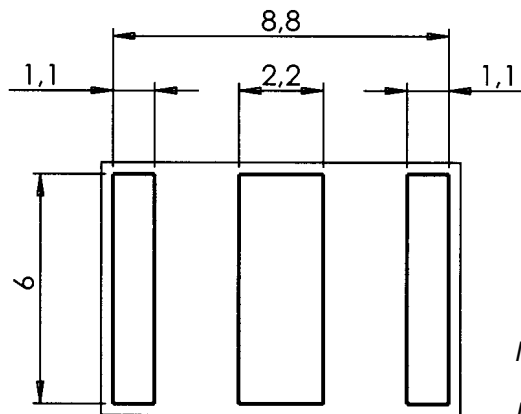
a) xxxx = C253 (bulk with 2500 pcs.)  
 T702 (SMD-tape with 700 pcs.)

- 1) At delivery AQL 0.65 level II, DIN ISO 2859
  - 2) In ionized mode
  - 3) Tip or ring electrode to center electrode
  - 4) Tip to ring electrode
  - 5) After 1 day storage in darkness for 95 % of tubes
  - 6) Total current through center electrode, half value through tip respectively ring electrode
  - 7) Total current through center electrode, same value through tip respectively ring electrode
  - 8) 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

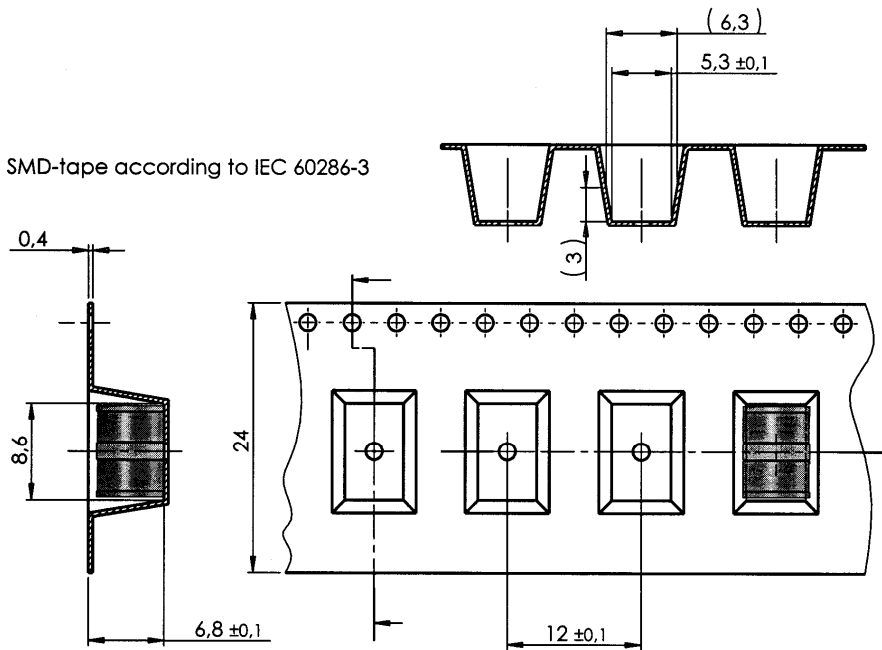
*Not to scale*

*Dimensions in mm*

*Non controlled document*

**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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