



## **Surge arrester**

3-electrode arrester

**Series/Type:** T30-A420XG  
**Ordering code:** B88069X3050T702  
Version/Date: Issue 06 / 2012-07-31

**Features**

- Very small size
- Fast response time
- High current rating
- Stable performance over life
- Low capacitance
- High insulation resistance
- RoHS-compatible

**Applications**

- Line protection
- Station protection
- Base stations

**Electrical specifications**

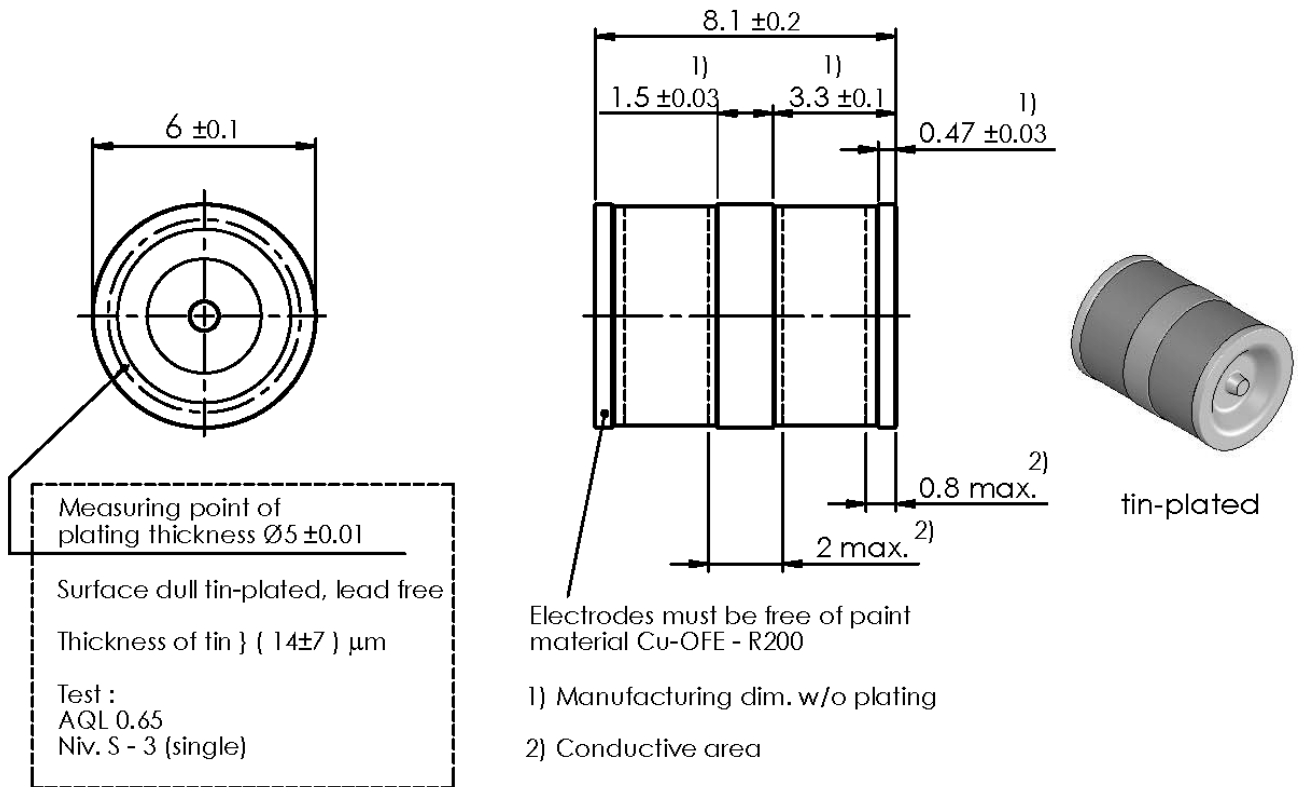
DC spark-over voltage <sup>1) 2) 3)</sup>	357 ... 525	V
DC spark-over voltage <sup>3) 5)</sup>	357 ... 672	V
DC spark-over voltage <sup>2) 4)</sup>	370 ... 750	V
Impulse spark-over voltage at 1 kV/ $\mu$ s - for 99% of measured values <sup>3)</sup> - typical values of distribution <sup>3)</sup>	< 950 < 850	V V
Service life		
10 operations      8/20 $\mu$ s <sup>6)</sup>	10	kA
10 operations      8/20 $\mu$ s <sup>7)</sup>	5	kA
1 operations      10/350 $\mu$ s <sup>6)</sup>	2	kA
10 operations      50 Hz; 1 s <sup>6)</sup>	10	A <sub>rms</sub>
10 operations      50 Hz; 1 s <sup>7)</sup>	5	A <sub>rms</sub>
After service life		
Insulation resistance at 100 V <sub>DC</sub> <sup>3)</sup>	> 100	M $\Omega$
DC spark-over voltage <sup>2) 3)</sup>	350 ... 800	V
DC spark-over voltage <sup>2) 4)</sup>	350 ... 1000	V
Impulse spark-over voltage at 1 kV/ $\mu$ s - for 99% of measured values <sup>3)</sup>	< 1500	V
Activation after reflow soldering <sup>8)</sup>		
1 operation      U <sub>RMS</sub> = 600 V; 1 s	2	A
Insulation resistance at 100 V <sub>DC</sub> <sup>3)</sup>	> 10	G $\Omega$
Capacitance at 1 MHz <sup>3)</sup>	< 1.5	pF
Weight	~ 1.2	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, blue negative	<b>EPCOS</b> <b>420 YY O</b> 420 - Nominal voltage YY - Year of production O - Non radioactive	

Remarks on the next page above

- 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 80% 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

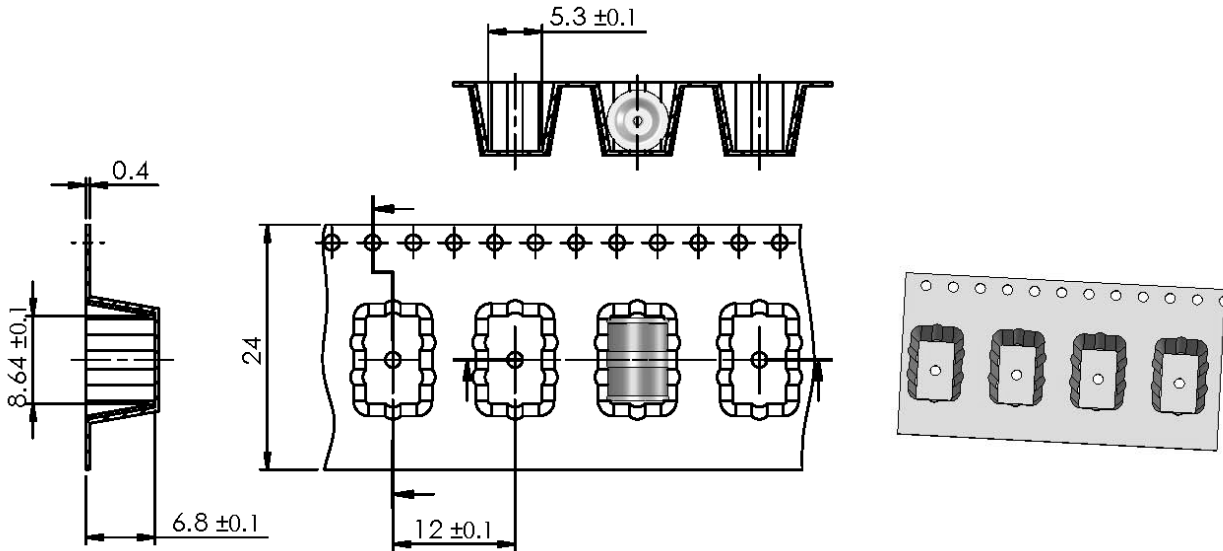
Terms in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

**Dimensional drawing in mm**



**Ordering code and packing advice**

*B88069X3050T702 = 700 pcs. on SMD tape and reel*



*Tape and reel packing comply with the specification of IEC 60286-3*

**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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