



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

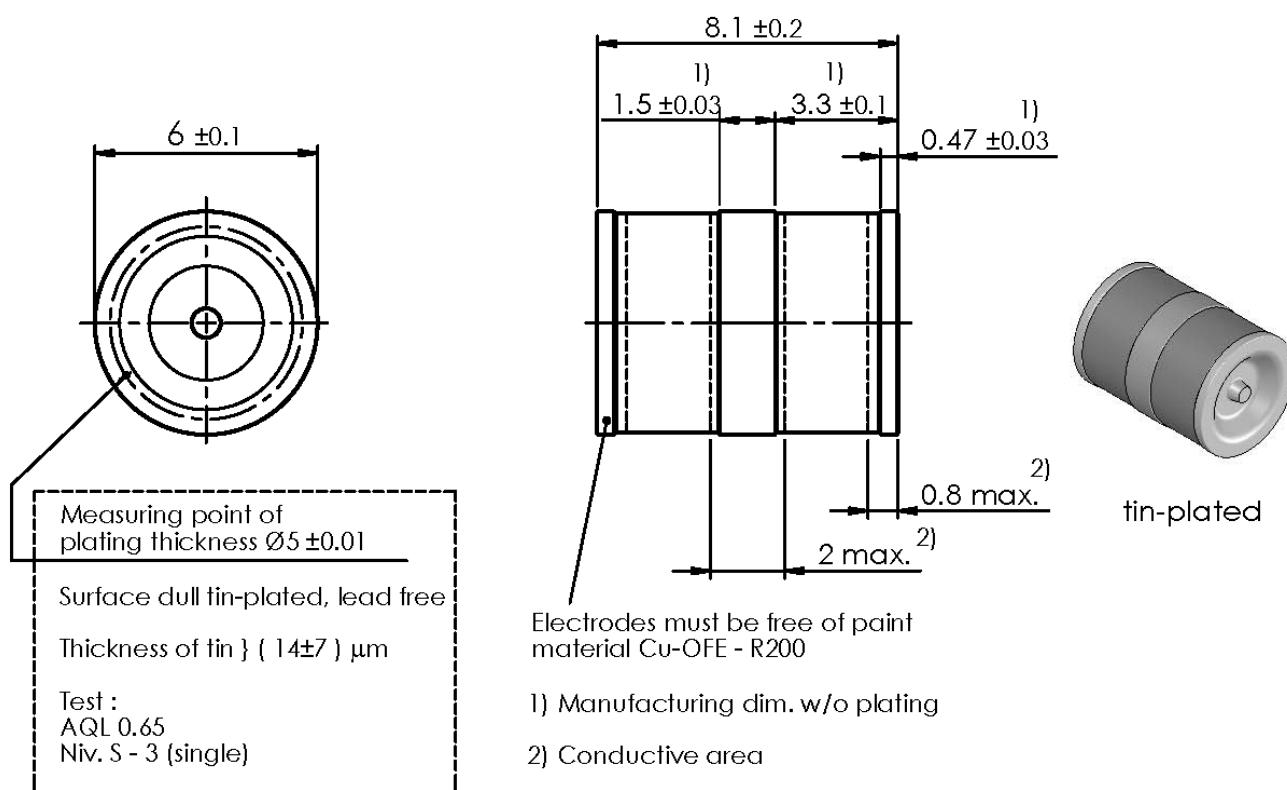
DC spark-over voltage ^{1) 2) 3)}	357 ... 525	V
DC spark-over voltage ^{3) 5)}	357 ... 672	V
DC spark-over voltage ^{2) 4)}	370 ... 750	V
Impulse spark-over voltage at 1 kV/μs - for 99% of measured values ³⁾ - typical values of distribution ³⁾	< 950 < 850	V V
Service life		
10 operations 8/20 μs ⁶⁾	10	kA
10 operations 8/20 μs ⁷⁾	5	kA
1 operations 10/350 μs ⁶⁾	2	kA
10 operations 50 Hz; 1 s ⁶⁾	10	A _{rms}
10 operations 50 Hz; 1 s ⁷⁾	5	A _{rms}
After service life		
Insulation resistance at 100 V _{DC} ³⁾	> 100	MΩ
DC spark-over voltage ^{2) 3)}	350 ... 800	V
DC spark-over voltage ^{2) 4)}	350 ... 1000	V
Impulse spark-over voltage at 1 kV/μs - for 99% of measured values ³⁾	< 1500	V
Activation after reflow soldering ⁸⁾		
1 operation U _{RMS} = 600 V; 1 s	2	A
Insulation resistance at 100 V _{DC} ³⁾	> 10	GΩ
Capacitance at 1 MHz ³⁾	< 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	EPCOS 420 YY O 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

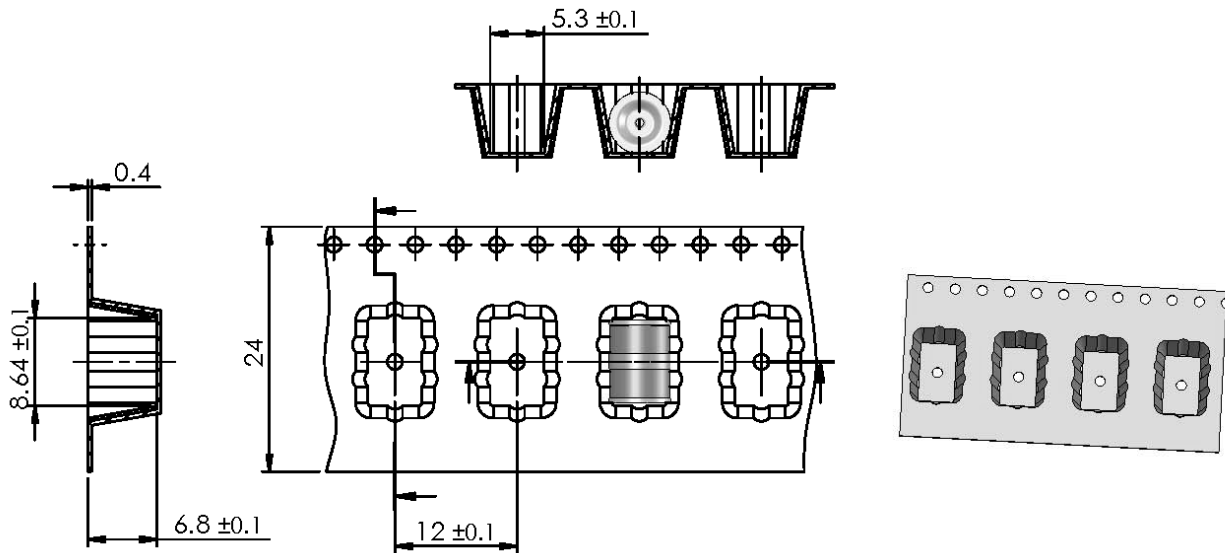
Terms in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

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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