



Surge arrester

3-electrode arrester

Series/Type: T30-H11XSMD
Ordering code: B88069X7931T702
Version/Date: Issue 02 / 2011-02-07

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Features

- Very small size
- Extremely fast response time
- High current rating
- Stable performance over life
- Extremely low capacitance
- High insulation resistance
- RoHS-compatible

Applications

- Line protection
- Balanced DSL protection

Electrical specifications

DC spark-over voltage ^{1) 2) 4) 5)}	880 ... 1320	V
Impulse spark-over voltage ⁴⁾		
at 100 V/μs - for 99 % of measured values	< 1500	V
- typical values of distribution	< 1200	V
at 1 kV/μs - for 99 % of measured values	< 1600	V
- typical values of distribution	< 1400	V
Service life		
10 operations 50 Hz; 1 s ⁶⁾	10	A
1 operation 50 Hz; 0.18 s (9 cycles) ⁶⁾	30	A
10 operations [5x (+) & 5x (-)] 8/20 μs ⁶⁾	10	kA
1 operation 10/350 μs ⁶⁾	2	kA
Insulation resistance at 100 V _{DC} ⁴⁾	> 10	GΩ
Capacitance at 1 MHz ⁴⁾	< 1.5	pF
Transverse delay time ³⁾	< 0.2	μs
Arc voltage at 1 A	~ 25	V
Glow to arc transition current	~ 1	A
Glow voltage	~ 200	V
Weight	~ 1.4	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
UL recognition		
- 1449 ed. 3 type 3	E319264	
Marking, blue negative	EPCOS 1100 YY O 1100 - Nominal voltage YY - Year of production O - Non radioactive	

¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859

²⁾ In ionized mode

³⁾ Test according to ITU-T Rec. K.12

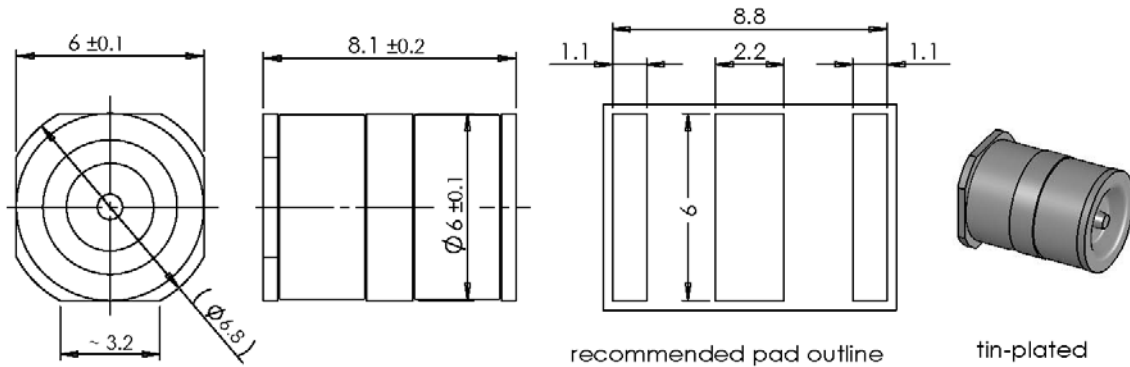
⁴⁾ Tip or ring electrode to center electrode

⁵⁾ Tip to ring electrode

⁶⁾ 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

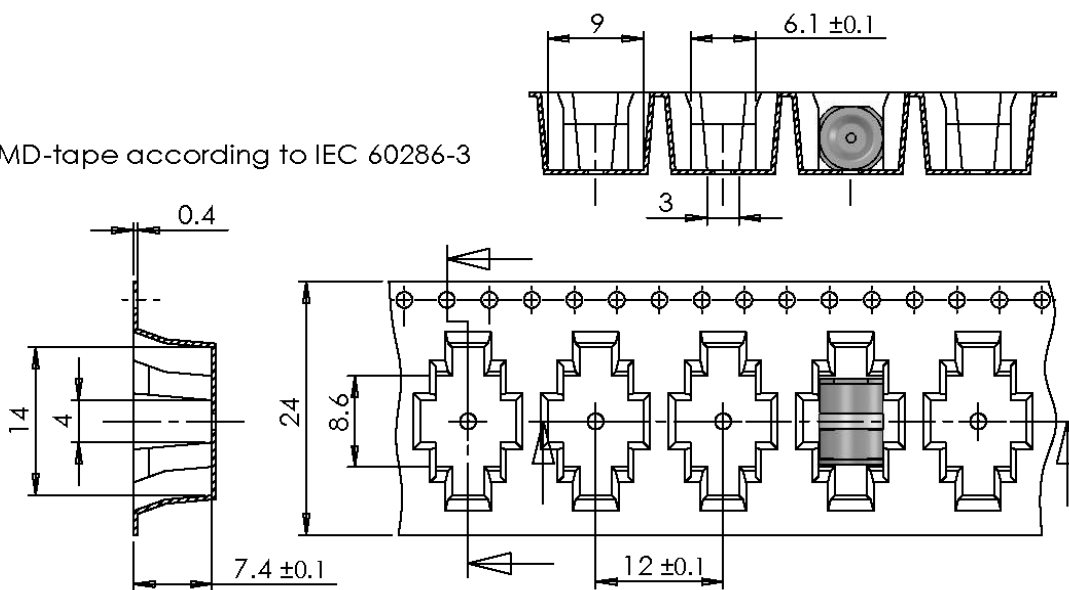
Dimensional drawing in mm



Ordering code and packing advice

B88069X7931T702 = 700 pcs on SMD tape

SMD-tape according to 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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Release 2018-10