



Surge arrester

3-electrode arrester

Series/Type: T90-A230XSMD
Ordering code: B88069X6680T902
Version/Date: Issue 08 / 2007-11-14

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Surge arrester

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T90-A230XSMD

Preliminary data

Features	Applications
- Very small size - Fast response time - High current rating - Stable performance over life - Extremely low capacitance - High insulation resistance - Excellent SMD handling - RoHS-compatible	- Line protection - Station protection - Base stations

Electrical specifications

DC spark-over voltage ^{1) 2) 4)}	230 ± 20	V %
Impulse spark-over voltage ⁴⁾		
at 100 V/μs - for 99 % of measured values	< 580	V
- typical values of distribution	< 460	V
at 1 kV/μs - for 99 % of measured values	< 750	V
- typical values of distribution	< 600	V
Service life		
10 operations 50 Hz; 1 s ⁵⁾	5	A _{rms}
1 operation 50 Hz; 0.18 s (9 cycles) ⁵⁾	10	A _{rms}
10 operations 8/20 μs ⁵⁾	5	kA
1 operation 8/20 μs ⁵⁾	10	kA
5 operations 10/250 μs ⁵⁾	2	kA
2 operations 10/350 μs ⁵⁾	2.5	kA
300 operations 10/1000 μs ⁵⁾	200	A
DC holdover voltage ³⁾		
at 52 V _{dc} / 260 Ω	< 150	ms
at 80 V _{dc} / 330 Ω	< 150	ms
at 135 V _{dc} / 1300 Ω	< 150	ms
Insulation resistance at 100 V _{dc} ⁴⁾	> 1	GΩ
Capacitance at 1 MHz ⁴⁾	< 1	pF
Transverse delay time ⁴⁾	< 0.2	μs
Arc voltage at 1 A	~ 10	V
Glow to arc transition current	~ 1	A
Glow voltage	~ 60	V
Weight	~ 0.8	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	

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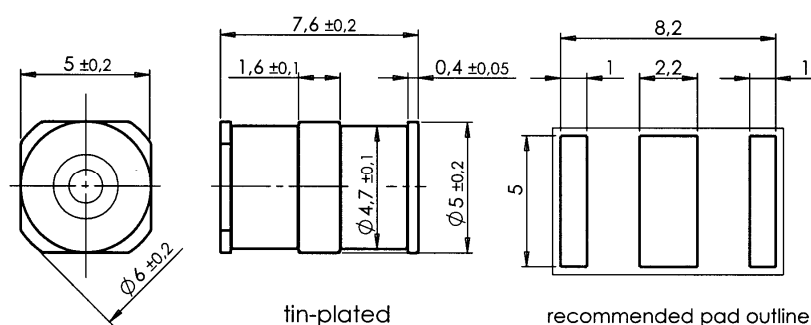
Marking, blue negative

EPCOS
230 YY O

230 - 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) 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



Not to scale

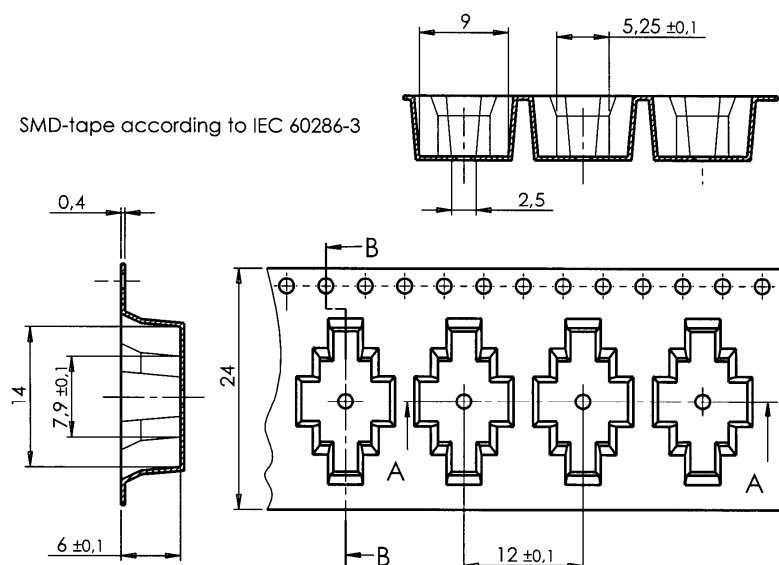
Dimensions in mm

Non controlled document

Packing advice

T902 = SMD-tape with 900 pcs

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.

KB AB E / KB AB PM

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