



Surge arrester

3-electrode arrester

Series/Type: T30-A230X
Ordering code: B88069X6100T702
Version / Date: Issue 01 / 2014-02-19

Features

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

Applications

- Line protection
- Station protection
- Base stations

Electrical specifications

DC spark-over voltage ^{1) 2) 3)}	230 ± 20	V %
Impulse spark-over voltage ³⁾		
at 100 V/μs - for 99% of measured values	< 400	V
- typical values of distribution	< 350	V
at 1 kV/μs - for 99% of measured values	< 450	V
- typical values of distribution	< 420	V
Service life		
10 operations 50 Hz; 1 s ⁴⁾	10	A
1 operation 50 Hz; 0.18 s (9 cycl.) ⁴⁾	30	A
10 operations [5x (+) & 5x (-)] 8/20 μs ⁴⁾	10	kA
1 operation 10/350 μs ⁴⁾	2	kA
Insulation resistance at 100 V _{DC} ³⁾	> 10	GΩ
Capacitance at 1 MHz ³⁾	< 1.5	pF
Transverse delay time ⁵⁾	< 0.2	μs
Arc voltage at 1 A	~ 30	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	
Marking, blue negative	EPCOS 230 YY O 230 - Nominal voltage YY - Year of production O - Non radioactive	
Certifications	UL 497B (E163070) 	

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

²⁾ In ionized mode

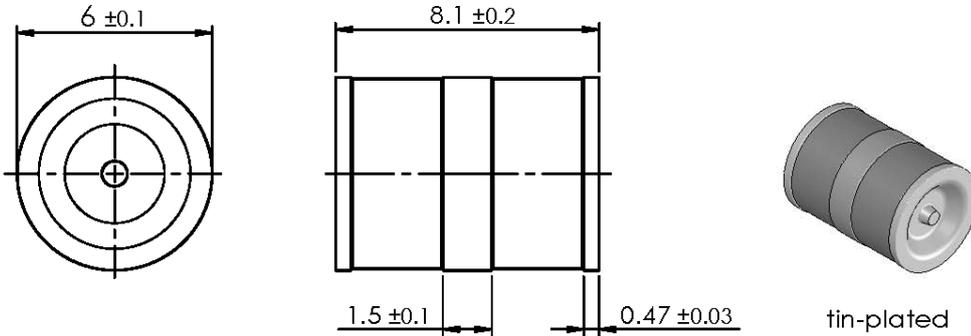
³⁾ Tip or ring electrode to center electrode

⁴⁾ Total current through center electrode, half value through tip respectively ring electrode.

⁵⁾ Test according to ITU-T Rec. K.12

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

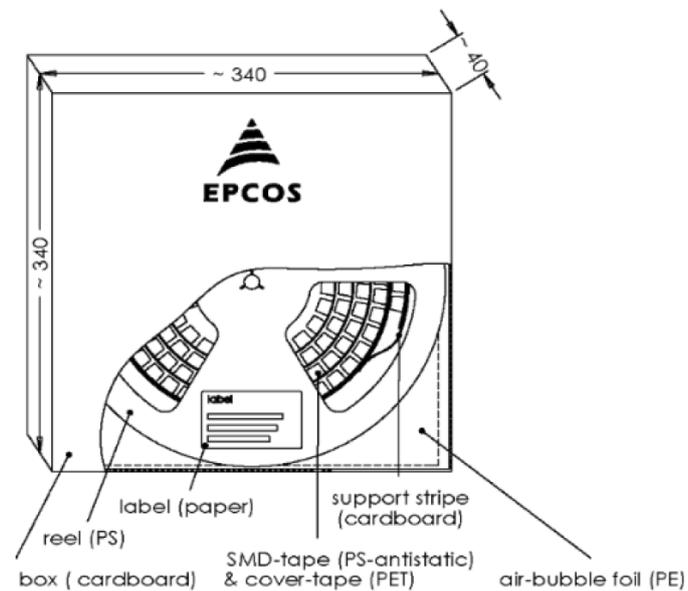
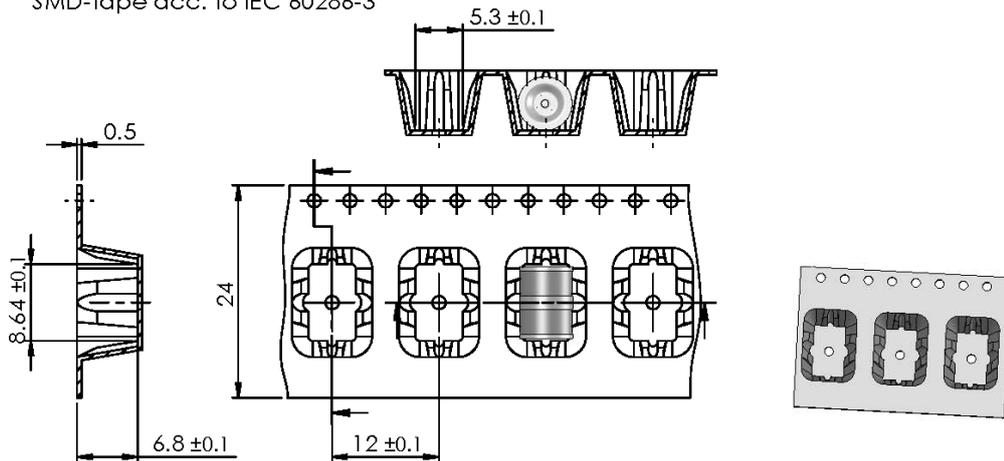
Dimensional drawing in mm



Ordering code and packing advice

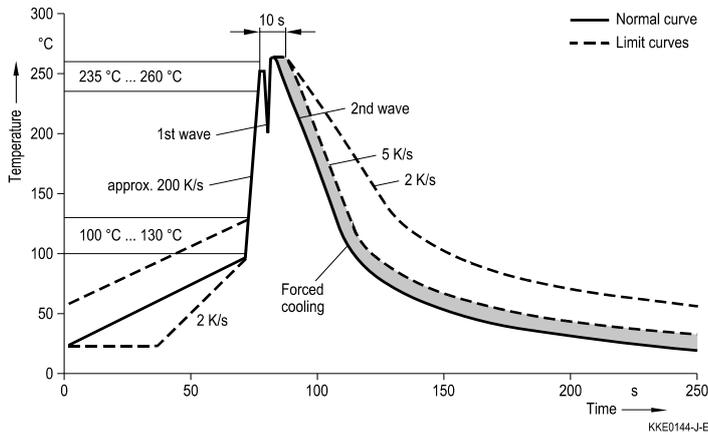
B88069X6100B502 = 500 pcs. on trays

SMD-tape acc. to IEC 60286-3



Soldering parameter

Wave soldering



Wave profile features	Pb-free assembly
Solder	Sn 95.5 / Ag 3.8 / Cu 0.7
Solder bath temperature	263 (±3) °C
Dwell time	< 3 s

Soldering profile applied to a single soldering process.

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 lead contacts may fail or the component may be destroyed.
- Surge arresters must be handled with care and must not be dropped.
- Damaged surge arresters must not be re-used.

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