

Surge arrester

3-electrode arrester

T30-A230X

Series/Type: Ordering code: B88069X6100T702

Version / Date: Issue 01 / 2014-02-19



Surge arrester B88069X6100T702

3-electrode arrester T30-A230X

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	٧
		± 20	%
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 - typical values of distribution		< 450	V
		< 420	V
Service life			
10 operations	50 Hz; 1 s ⁴⁾	10	Α
1 operation	50 Hz; 0.18 s (9 cycl.) 4)	30	Α
10 operations [5× (+) & 5× (-)]	8/20 μs ⁴⁾	10	kA
1 operation	10/350 μs ⁴⁾	2	kA
Insulation resistance at 100 V _{DC} ³⁾		> 10	$G\Omega$
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	Α
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 productio O - Non radioactive	n
Certifications		UL 497B (E163070)	71 7

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

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

²⁾ In ionized mode

³⁾ Tip or ring electrode to center electrode

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

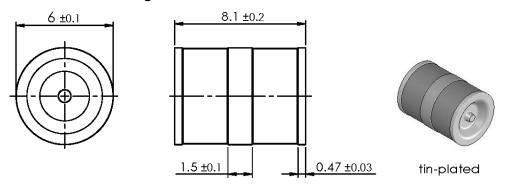
Test according to ITU-T Rec. K.12



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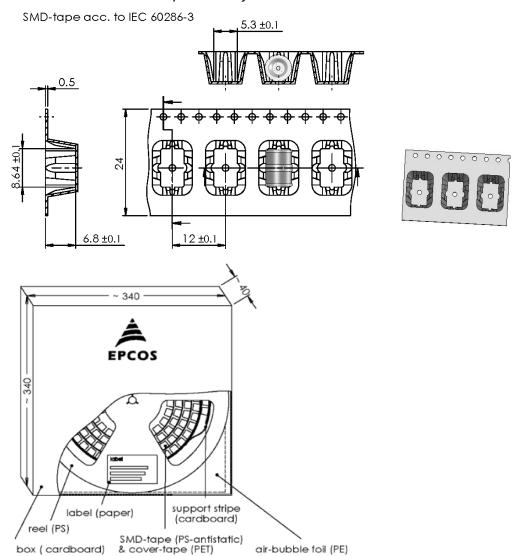
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Dimensional drawing in mm



Ordering code and packing advice

B88069X6100**B502** = 500 pcs. on trays



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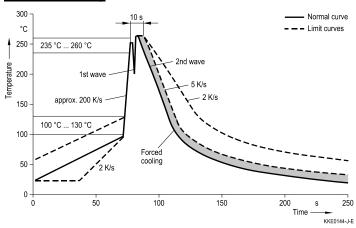


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Soldering parameter

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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