Surge arrester

3-electrode arrester

Series/Type:	**T30-A420X**
Ordering code:	**B88069X3040******
Date:	2015-10-05
Version:	07

EPCOS AG is a TDK Group Company.

Surge arrester — B88069X3040****

3-electrode arrester — T30-A420X

Features

- Very small size
- Very 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

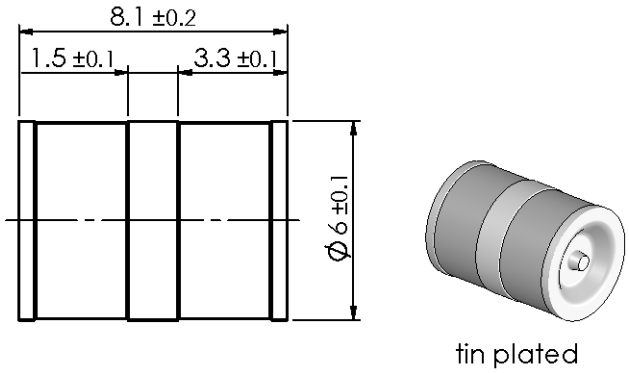
DC spark-over voltage [1) 2) 3)]			420 357 … 525	V V
Impulse spark-over voltage [3)]				
at 100 V/µs	- for 99% of measured values		< 750	V
	- typical values of distribution		< 700	V
at 1 kV/µs	- for 99% of measured values		< 800	V
	- typical values of distribution		< 750	V
at 10/700 µs; 4 kV [5)]	- for 99% of measured values		< 800	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 [5× (+) & 5× (–)]		8/20 µs [4)]	10	kA
1 operation		8/20 µs	10	kA
1 operation		10/350 µs [4)]	2	kA
300 operations		10/1000 µs [4)]	100	A
Insulation resistance at 100 V_{DC} [3)]			> 10	GΩ
Capacitance at 1 MHz [3)]			< 1.5	pF
Transverse delay time [6)]			< 0.2	µs
Arc voltage at 1 A			~ 30	V
Glow to arc transition current			< 1	A
Glow voltage			~ 200	V
Weight			~ 1.2	g
Operation and storage temperature			–40 ... +90	°C
Climatic category (IEC 60068-1)			40/090/21	
Marking, blue negative			**EPCOS** **420 YY O** 420 - Nominal voltage YY - Year of production O - Non radioactive	
Certifications			UL 497B (E163070)	

Remarks on next page

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.45; 10/700 µs, V_{Cmax} = 4 kV
6) Test according to ITU-T Rec. K.12

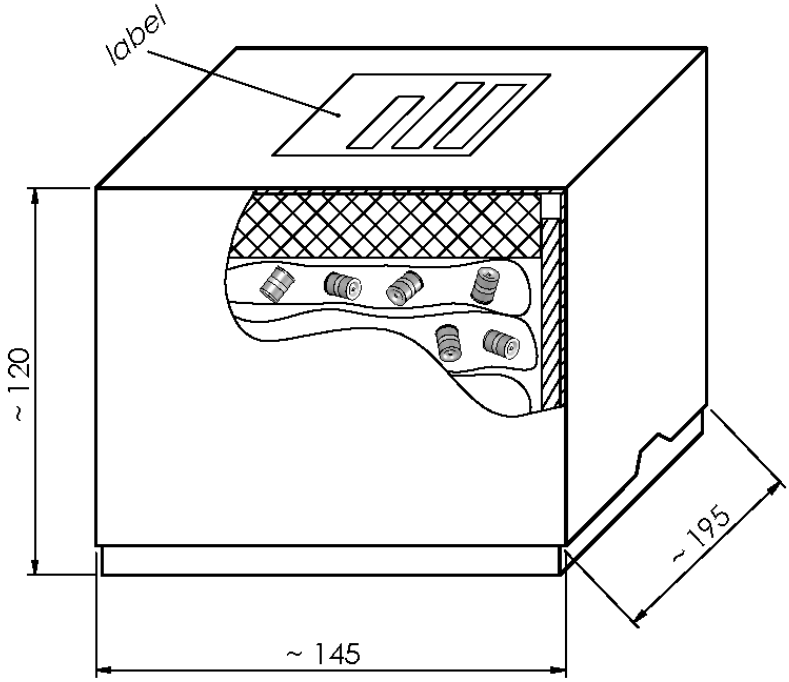
Terms in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

Dimensional drawing in mm

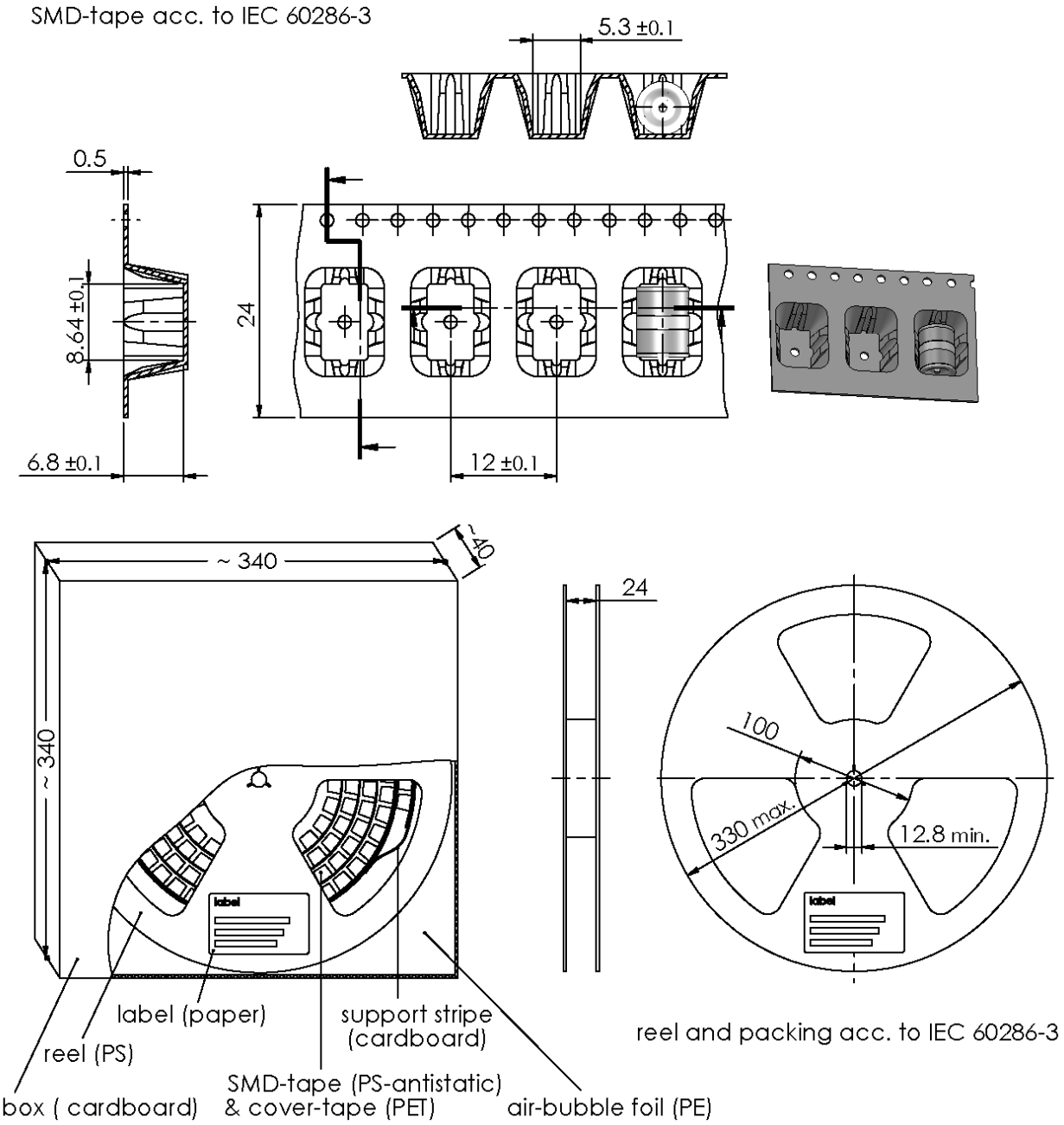


Ordering code and packing advice

*B88069X3040**C253** = 2500 pcs. in container (5 PE-bags á 500 pcs.)*



*B88069X3040**T702** = 700 pcs. on SMD tape and reel*



Cautions and warnings

- Do not operate surge arresters in power supply networks, whose maximum operating voltage exceeds the minimum spark-over voltage of the surge arresters.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- Surge arresters may become hot in the event of longer periods of current stress (burn risk). In the event of overload the connectors may fail or the component may be destroyed.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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