Surge arrester

3-electrode arrester

Series/Type:	**T90-A90XG**
Ordering code:	**B88069X5860T902**
Date:	2015-09-09
Version:	04

Surge arrester — B88069X5860T902

3-electrode arrester — T90-A90XG

Features

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

Applications

- Modem
- Data lines

Electrical specifications

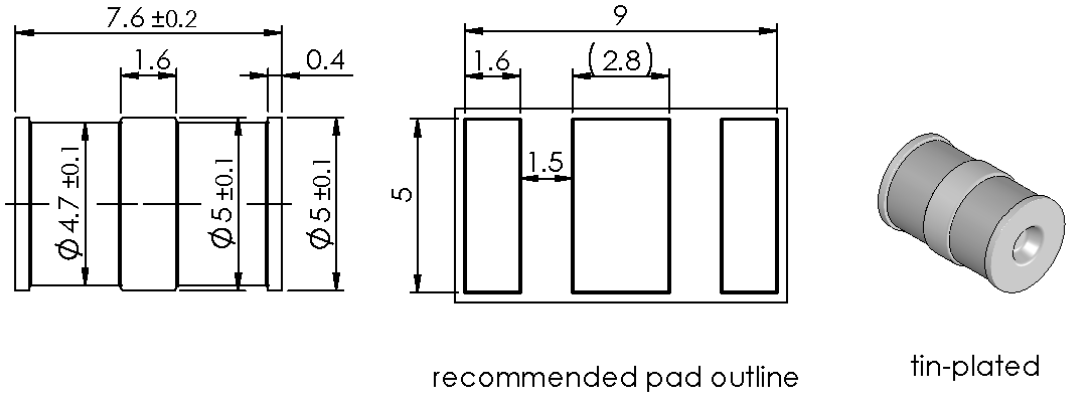
DC spark-over voltage [1) 2) 3)]		90 ±20	V %
Impulse spark-over voltage [3)]			
at 100 V/µs	- for 99% of measured values	< 450	V
	- typical values of distribution	< 350	V
at 1 kV/µs	- for 99% of measured values	< 600	V
	- typical values of distribution	< 500	V
Service life			
10 operations	50 Hz; 1 s [4)]	10	A
10 operations [5× (+) & 5× (–)]	8/20 µs [4)]	10	kA
2 operation	10/350 µs [4)]	1	kA
300 operations [150× (+) & 150× (–)]	10/1000 µs [4)]	200	A
Insulation resistance at 50 V_{DC} [3)]		> 1	GΩ
Capacitance at 1 MHz [3)]		< 1.5	pF
Transverse delay time [5)]		< 0.2	µs
Arc voltage at 1 A Glow to arc transition current Glow voltage		~ 15 < 0.5 ~ 70	V A V
Weight		~ 1.2	g
Operation and storage temperature		–40 ... +90	°C
Climatic category (IEC 60068-1)		40/090/21	
Marking, blue negative		**EPCOS** **90 YY O** 90 - 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.12

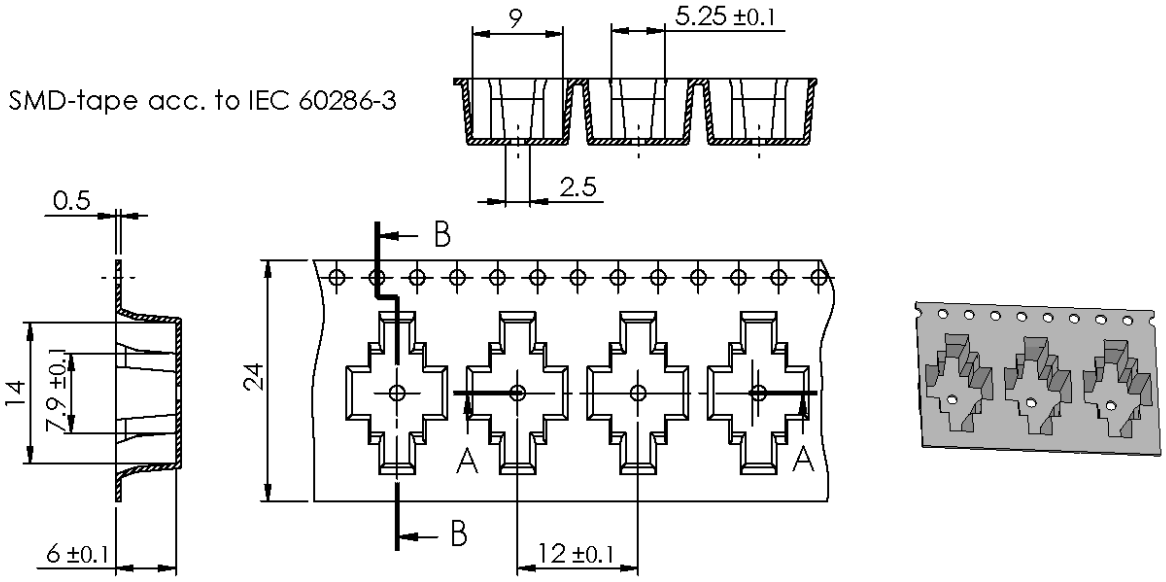
Terms in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

Dimensional drawing in mm



Ordering code and packing advice

*B88069X5860**T902** = SMD-tape with 900 pcs.*



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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