Surge arrester

2-electrode arrester

Series/Type: **M51-C90XG**
Ordering code: **B88069X5020T103**
Version/Date: Issue 08 / 2011-12-16

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Features

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

Applications

- Modem
- XDSL-splitter
- Data lines
- Tuner
- Antenna

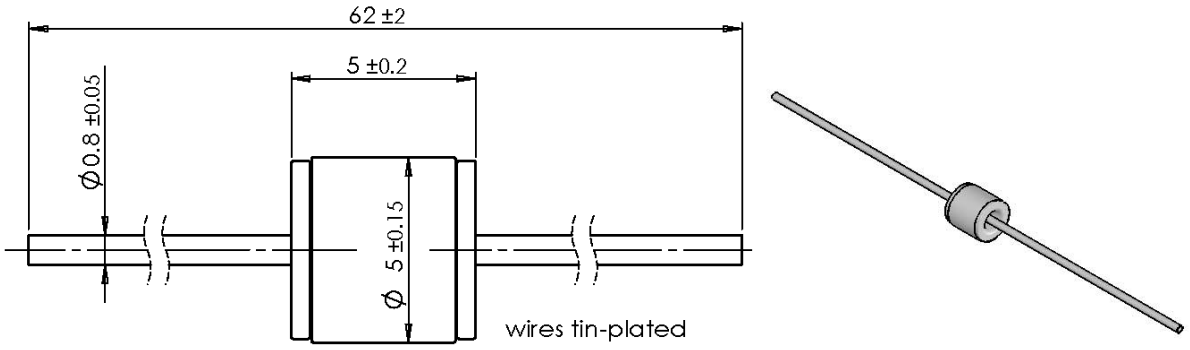
Electrical specifications

DC spark-over voltage [1) 2)]	90 ± 20	V %
Impulse spark-over voltage		
at 100 V/µs - for 99 % of measured values	< 400	V
- typical values of distribution	< 300	V
at 1 kV/µs - for 99 % of measured values	< 600	V
- typical values of distribution	< 550	V
Service life		
10 operations 50 Hz, 1 s	5	A
1 operation 50 Hz, 0.18 s (9 cycles)	10	A
10 operations 8/20 µs	5	kA
1 operation 8/20 µs	7.5	kA
1 operation 10/350 µs	0.5	kA
300 operations 10/1000 µs	100	A
Insulation resistance at 50 V_{DC}	> 1	GΩ
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A	~ 15	V
Glow to arc transition current	~ 0.8	A
Glow voltage	~ 60	V
Weight	~ 1	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, blue negative	**EPCOS 90 YY O** 90 - Nominal voltage YY - Year of production O - Non radioactive	

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In ionized mode

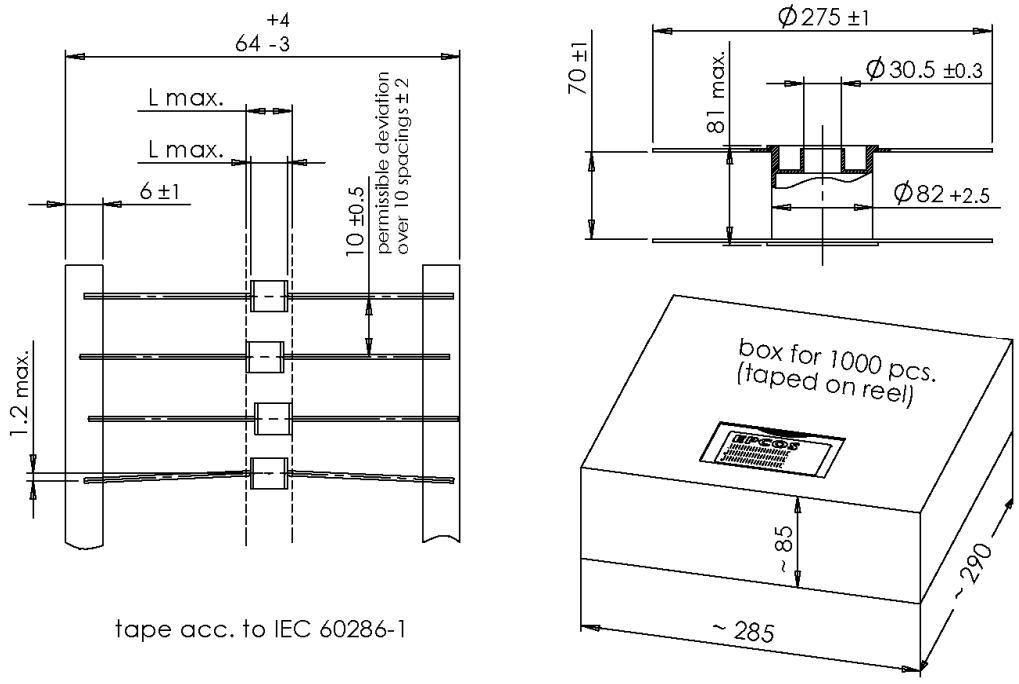
Terms in accordance with ITU-T Rec. K.12, IEC 61663-2 and IEC 61643-311

Dimensional drawing in mm



Ordering code and packing advice

*B88069X5020**T103** = 1000 pcs on tape and reel*



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.

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