Surge arrester

2-electrode arrester

Series/Type: **EM230X**
Ordering code: **B88069X0900****
Version/Date: Issue 08 / 2013-09-24

Features

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

Applications

- Modem
- XDSL-splitter
- Station protection
- Consumer electronics

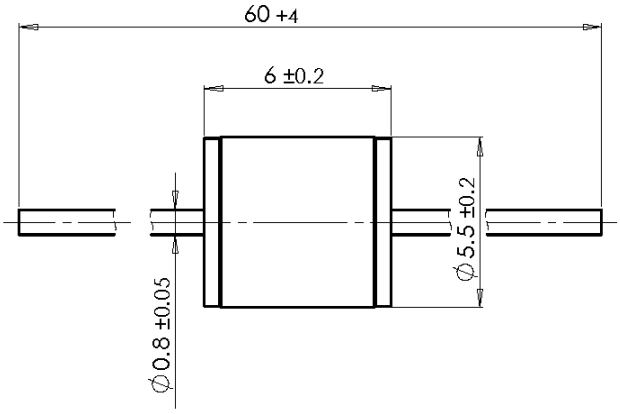
Electrical specifications

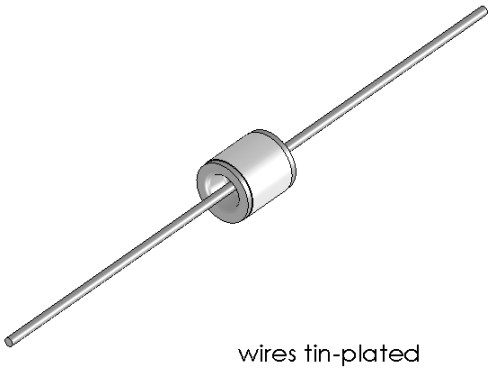
DC spark-over voltage [1) 2)]	230 ± 20	V %
Impulse spark-over voltage		
at 100 V/µs - for 99% of measured values	< 650	V
at 100 V/µs - typical values of distribution	< 600	V
at 1 kV/µs - for 99% of measured values	< 700	V
at 1 kV/µs - typical values of distribution	< 650	V
Service life		
10 operations 50 Hz, 1 s	2.5	A
1 operation 50 Hz, 0.18 s (9 cycles)	5	A
10 operations 8/20 µs	2.5	kA
1 operation 8/20 µs	5	kA
1 operation 10/350 µs	0.5	kA
300 operations 10/1000 µs	100	A
Insulation resistance at 100 V_{DC}	> 1	GΩ
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 11 ~ 0.5 ~ 80	V A V
Weight	~ 1	g
Operation and storage temperature	-40 ... +125	°C
Climatic category (IEC 60068-1)	40/ 125 /21	
Marking, red positive	**EPCOS EM 230 YY O** EM - Series 230 - 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

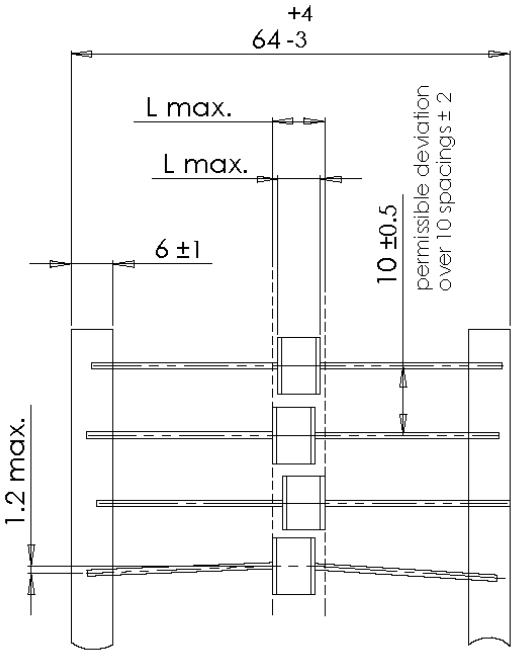




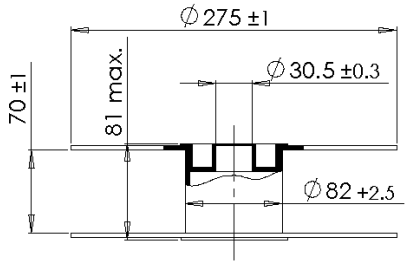
Ordering codes and packing advices

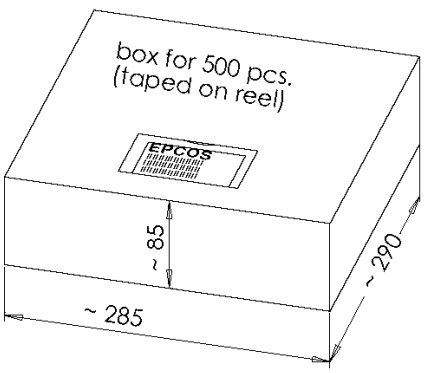
*B88069X0900**S102** = 100 pcs. on 5 taped stripes*

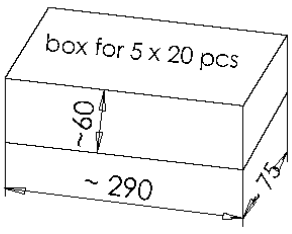
*B88069X0900**T502** = 500 pcs. on tape& reel*



tape acc. to IEC 60286-1







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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