



Surge arrester

2-electrode arrester

Series/Type: EM300XS
Ordering code: B88069X1780S102
Version/Date: Issue 06 / 2007-01-11

Features	Applications
▪ Very small size ▪ Very fast response time ▪ Stable performance over life ▪ Extremely low capacitance ▪ High insulation resistance ▪ RoHS-compatible	▪ Modem ▪ XDSL-splitter ▪ Tuner

Electrical specifications

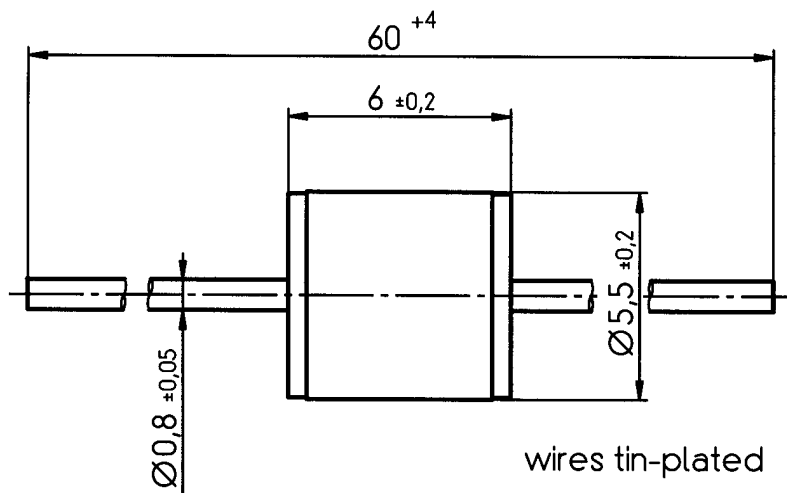
DC spark-over voltage ^{1) 2)}	270 ... 345	V
Impulse spark-over voltage		
at 100 V/μs - for 99 % of measured values	< 500	V
- typical values of distribution	< 450	V
at 1 kV/μs - for 99 % of measured values	< 600	V
- typical values of distribution	< 550	V
Service life		
10 operations 8/20 μs	2.5	kA
1 operation 10/350 μs	0.5	kA
Insulation resistance at 100 V _{dc}	> 1	GΩ
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A	~ 11	V
Glow to arc transition current	~ 0.5	A
Glow voltage	~ 130	V
Weight	~ 1	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/21	
Marking, red positive	EPCOSEM 300 YY O EM - Series 300 - 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 and DIN 57845/VDE0845

Dimensional drawing



Not to scale

Dimensions in mm

Non controlled document

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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