



Surge arrester

2-electrode arrester

Series/Type: EM1000X
Ordering code: B88069X4651xxxx ^{a)}
Version/Date: Issue 02 / 2007-01-12

Surge arrester

B88069X4651xxxx^{a)}

2-electrode arrester

EM1000X

Features	Applications
- Very small size - Fast response time - Stable performance over life - Extremely low capacitance - High insulation resistance - RoHS-compatible	- AC power line devices - Consumer electronics - Power supply - Modem

Electrical specifications

DC spark-over voltage ^{1) 2)}	1000 ± 20	V %
Impulse spark-over voltage		
at 100 V/μs - for 99 % of measured values	< 1700	V
- typical values of distribution	< 1600	V
at 1 kV/μs - for 99 % of measured values	< 1900	V
- typical values of distribution	< 1800	V
Service life		
10 operations 50 Hz, 1 s	2	A
3 operations 8/20 μs	2	kA
1 operation 8/20 μs	2.5	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	~ 11	V
Glow to arc transition current	~ 0.5	A
Glow voltage	~ 80	V
Weight	~ 1	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/21	
Marking, red positive	EPCOSEM 1000 YY O EM - Series 1000 - Nominal voltage YY - Year of production O - Non radioactive	

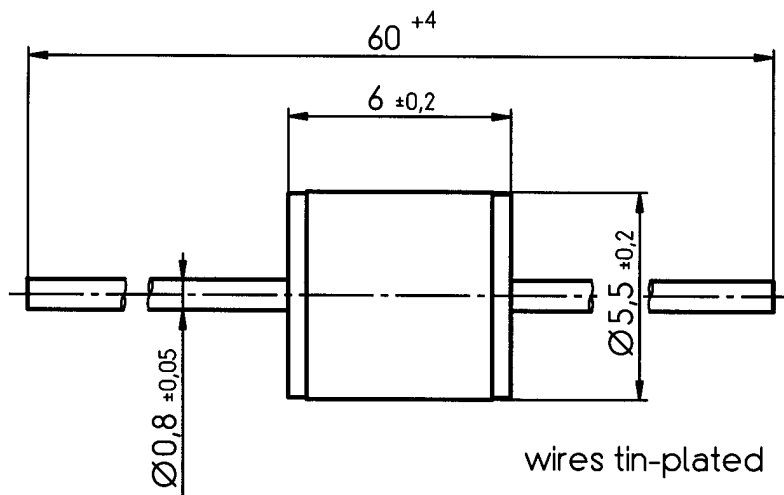
^{a)} xxxx = S102 (100 pcs on 5 taped stripes)
= T502 (500 pcs on tape and reel)

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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