



Surge arrester

2-electrode arrester

Series/Type: EM2500XS
Ordering code: B88069X2500xxxx ^{a)}
Version/Date: Issue 02 / 2007-01-12

Surge arrester

B88069X2500xxxx^{a)}

2-electrode arrester

EM2500XS

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

Electrical specifications

DC spark-over voltage ^{1) 2)}	2500 ± 20	V %
Impulse spark-over voltage		
at 100 V/μs - for 99 % of measured values	< 3200	V
- typical values of distribution	< 3000	V
at 1 kV/μs - for 99 % of measured values	< 3500	V
- typical values of distribution	< 3200	V
Service life		
3 operations 8/20 μs	2	kA
1 operation 8/20 μs	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	~ 15	V
Glow to arc transition current	~ 1	A
Glow voltage	~ 140	V
Weight	~ 1	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/21	
Marking, red positive	EPCOSEM 2500 YY O EM - Series 2500 - Nominal voltage YY - Year of production O - Non radioactive	

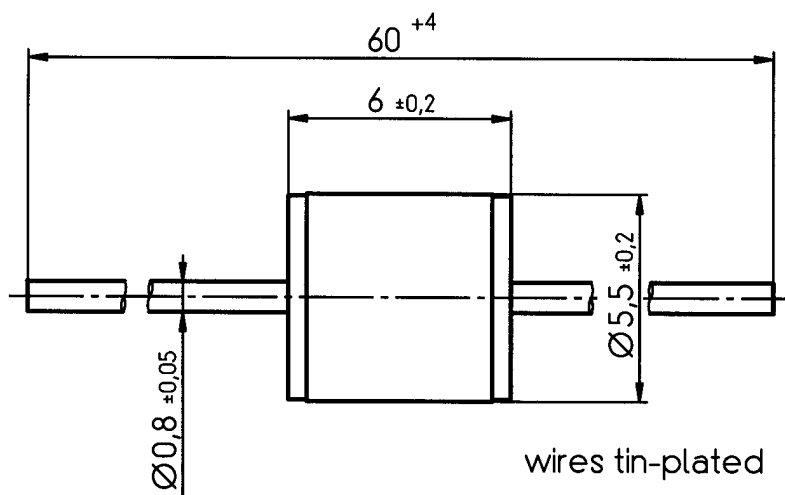
^{a)} xxxx = S102 (100 pcs on 5 taped stripes)
= T502 (500 pcs on tape and reel)

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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2. We also point out that **in individual cases, a malfunction of passive electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified**. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of a passive electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of a passive electronic component.
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