

Surge arrester

2-electrode arrester

Series/Type: Ordering code: **EM2500XS**

B88069X2500xxxx a) Issue 02 / 2007-01-12 Version/Date:



Surge arrester B88069X2500xxxx ^{a)}
2-electrode arrester EM2500XS

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

Electrical specifications

RoHS-compatible

DC spark-over voltage 1) 2)	2500	V	
·	± 20	%	
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	Α	
Insulation resistance at 100 V _{dc}	> 1	$G\Omega$	
Capacitance at 1 MHz	< 1	pF	
Arc voltage at 1 A	~ 15	V	
Glow to arc transition current	~ 1	Α	
Glow voltage	~ 140	V	
Weight	~ 1	g	
Operation and storage temperature	-40 + 90	S	
Climatic category (IEC 60068-1)	40/ 90/21	40/ 90/21	
Marking, red positive	EPCOS EM 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)

Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

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¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859

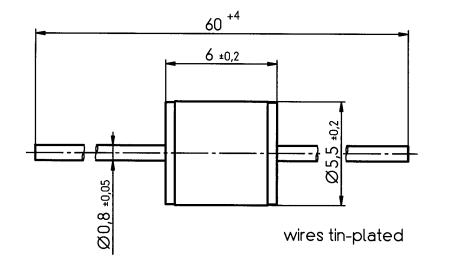
²⁾ In ionized mode



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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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