

Surge arrester

2-electrode arrester

Series/Type: M50-C90XSMD
Ordering code: B88069X1640xxxx a)

Version/Date: Issue 10 / 2007-02-14



Surge arrester B88069X1640xxxx ^{a)}

2-electrode arrester M50-C90XSMD

Features	Applications
 Very small size 	■ Modem
 High current rating 	 XDSL-splitter
 Very fast response time 	Data lines
 Stable performance over life 	■ Tuner
 Very low capacitance 	Antenna
 High insulation resistance 	
 Excellent SMD handling 	
 RoHS-compatible 	

Electrical specifications

DC spark-over voltage 1) 2)	90 ± 20	V %
Impulse spark-over voltage		
at 100 V/µs - for 99 % of measured values - typical values of distribution	< 550 < 500	V
at 1 kV/µs - for 99 % of measured values - typical values of distribution	< 600 < 550	V
Service life		
10 operations 50 Hz, 1 s	5	Α
1 operation 50 Hz, 0.18 s (9 cycles)	10	Α
10 operations 8/20 μs	5	kA
1 operation 8/20 μs	10	kA
1 operation 10/350 μs	0.5	kA
300 operations 10/1000 μs	100	Α
Insulation resistance at 50 V _{dc}	> 1	$G\Omega$
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A	~ 15	V
Glow to arc transition current	~ 0.8	Α
Glow voltage	~ 60	V
Weight	~ 1	g
Operation and storage temperature	-40 +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, blue negative	EPCOS 90 YY O 90 - Nominal voltage YY - Year of production O - Non radioactive	

xxxx = T902 (900 pcs on SMD tape) B203 (2000 pcs on trays)

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

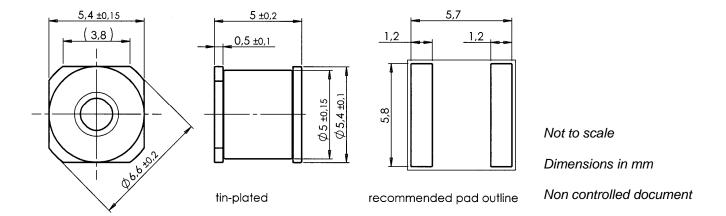


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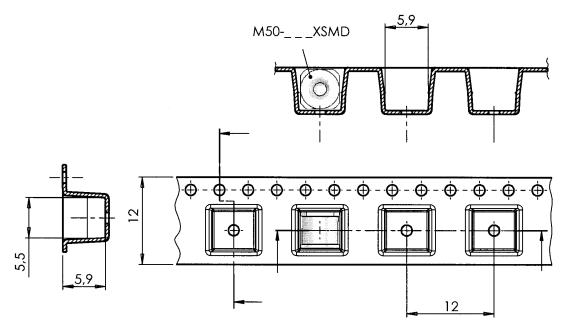
M50-C90XSMD

Dimensional drawing



Packing advice

T902 = 900 pcs on SMD-tape



SMD-tape according to IEC 60286-3

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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