

## Surge arrester

2-electrode arrester

Series/Type: M50-C90XSMD Ordering code: B88069X1640T902

Date: Version: 2016-02-04 13

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### Surge arrester

### 2-electrode arrester

B88069X1640T902 M50-C90XSMD

### Features

- Very small size
- High current rating
- Very fast response time
- Stable performance over life
- Very low capacitance
- High insulation resistance
- Excellent SMD handling
- RoHS-compatible

### Applications

- Modem
- XDSL-splitter
- Data lines
- Tuner
- Antenna

Electrical specifications		
DC spark-over voltage <sup>1) 2)</sup>	90	V
Tolerance	±20	%
Min.	72	V
Max.	108	V
Impulse spark-over voltage		
at 100 V/µs - for 99% of measured values	< 550	V
<ul> <li>typical values of distribution</li> </ul>	< 500	V
at 1 kV/µs - for 99% of measured values	< 600	V
<ul> <li>typical values of distribution</li> </ul>	< 550	V
Service life		
10 operations 50 Hz, 1 s	5	А
1 operations 50 Hz, 0.18 s (9 cycles)	10	А
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	А
Insulation resistance at 50 V <sub>DC</sub>	> 1	GΩ
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A	~ 10	V
Glow to arc transition current	< 0.7	А
Glow voltage	~ 55	V
Weight	~ 1	g
Operation and storage temperature	-40 +125	°C
Climatic category (IEC 60068-1)	40/125/21	
Marking, blue negative	EPCOS 90 YY 090- Nominal voltageYY- Year of productionO- Non radioactive	
Certification	UL 497B (E163070)	

<sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859

<sup>2)</sup> In ionized mode

Terms in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

#### PPD AB PD / PPD AB PM

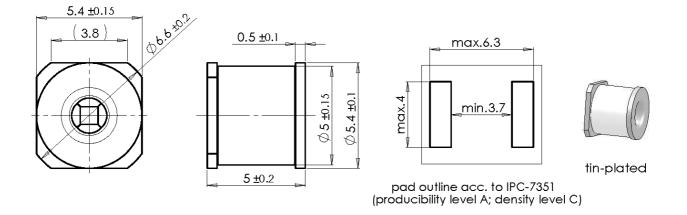


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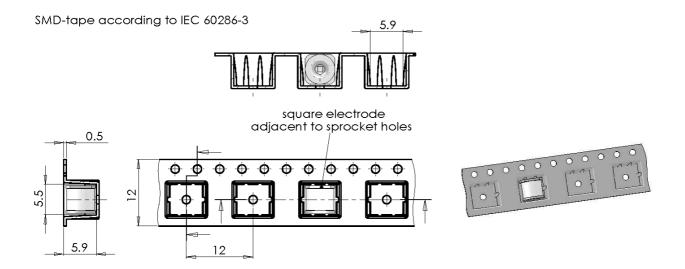
B88069X1640T902 M50-C90XSMD

### Dimensional drawing in mm



## Ordering code and packing advice

B88069X1640T902 = 900 pcs. on SMD-tape



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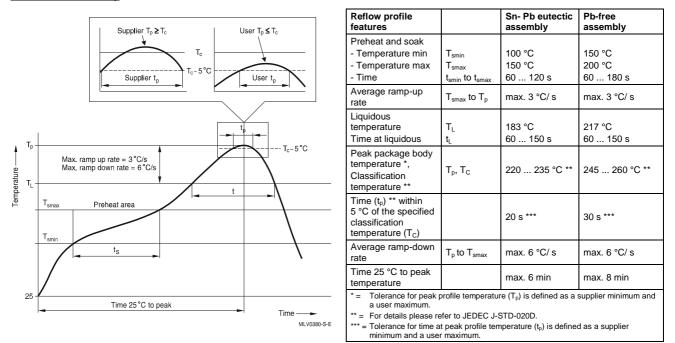
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### Soldering parameter

### Reflow soldering



Surface mounted components (SMD) may exhibit a temporary increase in the DC spark-over voltage after the solder reflow process. The components will recover within 24 hours. There is no quality defect nor change in protection levels during the temporary change in DC spark-over voltage.

### **Cautions and warnings**

- Do not operate surge arresters in power supply networks, whose maximum operating voltage exceeds the minimum spark-over voltage of the surge arresters.
- Surge arresters may become hot in the event of longer periods of current stress (burn risk). In the event of overload the connectors may fail or the component may be destroyed.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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Release 2018-10