

Surge arrester

2-electrode arrester

Version:

 Series/Type:
 D06-A90SMD

 Ordering code:
 B88069X5183T173

 Date:
 2018-11-08

04

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D06-A90SMD

Features

- Flat design
- High current rating
- Stable performance over life
- High insulation resistance
- Excellent SMD handling
- RoHS-compatible

Applications

- Telecom
- Industrial communication
- Line protection
- Subscriber protection
- Alarm system

Electrical specifications			
DC spark-over voltage ^{1) 2)}		90	V
Tolerance		±20	%
Min.		72	V
Max.		108	V
Impulse spark-over voltage			
at 100 V/µs - for 99% of measured values		< 400	V
- typical	values of distribution	< 350	V
at 1 kV/µs - for 99%	6 of measured values	< 600	V
- typical	values of distribution	< 550	V
Service life			
10 operations	50 Hz, 1 s	5	A
10 operations	8/20 µs	10	kA
1 operation	8/20 µs	20	kA
2 operations	10/350 µs	1.5	kA
Insulation resistance at 50 V_{DC}		> 1	GΩ
Capacitance at 1 MHz		< 2	pF
Arc voltage at 1 A		~ 10	V
Glow to arc transition current		< 0.5	A
Glow voltage		~ 60	V
Weight		~ 0.5	g
Operation and storage temperature		-40 +125	°C
Climatic category (IEC 60068-1)		40/125/21	
Marking		without	
Certification		UL 497B (E163070)	

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 IEC 61643-311

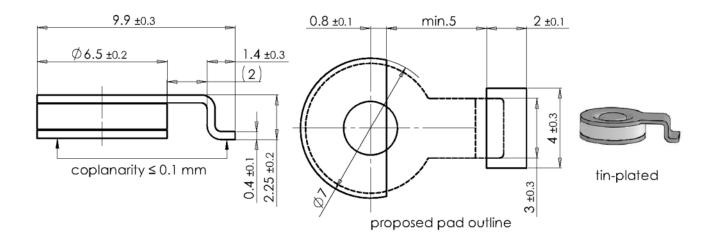


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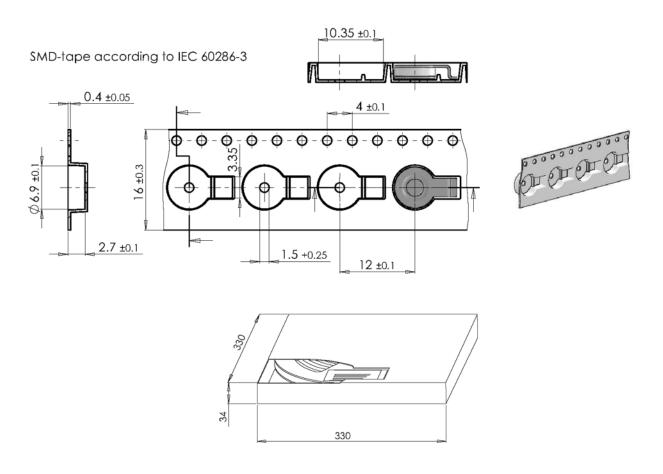
B88069X5183T173 D06-A90SMD

Dimensional drawing in mm



Ordering code and packing advice

B88069X5183173 = 1700 pcs. on SMD-tape & reel



PPD AB PD / PPD AB PM

②TDK

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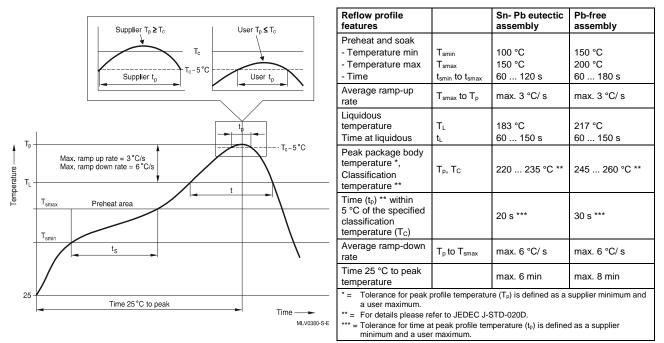
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Soldering parameter

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.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.
- The shown SMD pad dimensions represent a safe way to mount the arrester and are a recommendation of the manufacturer. During the reflow process it must be assured that no solder material reduces the insulation distance between the pads below the arrester.
- SMD surge arresters should be soldered within 24 month after shipment.

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Release 2018-10

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