

Surge arrester

3-electrode arrester

Series/Type:EB0-A90SMDHCOrdering code:B88069X6253T802

Date: Version: 2020-05-12 01

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B88069X6253T802

EB0-A90SMDHC

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3-electrode arrester

Features

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

Electrical specifications

Applications

- Modem
- Data lines

DC spark-over voltage ^{1) 2) 3)}		90	V
Tolerance		±20	%
Min.		72	V
Max.		108	V
Impulse spark-over voltage 3)			
at 100 V/µs - for 99% of measured values - typical values of distribution		< 450	V
		< 350	V
at 1 kV/µs - for 99% of measured values - typical values of distribution		< 600	V
		< 500	V
Service life			
10 operations	50 Hz; 1 s ⁴⁾	20	A
10 operations [5× (+) & 5× (–)]	8/20 µs 4)	20	kA
1 operation	10/350 µs ⁴⁾	3	kA
300 operations (+/-, alternating polarity	/) 10/1000 µs ⁴⁾	200	А
Insulation resistance at 50 V_{DC} ³⁾		> 1	GΩ
Capacitance at 1 MHz 3)		< 1	pF
Transverse delay time 5)		< 0.2	μs
Arc voltage at 1 A		~ 10	V
Glow to arc transition current		< 1	А
Glow voltage at 0.1 A		~ 60	V
Weight		~ 1	g
Operation and storage temperature		-40 +125	°C
Climatic category (IEC 60068-1)		40/125/21	
Marking, blue negative		EPCOS EBHC 90 YY O EBHC - Series 90 - Nominal voltage YY - Year of production O - Non radioactive	

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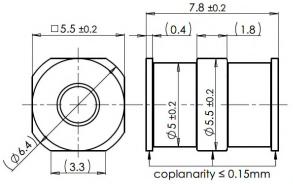
Surge arrester

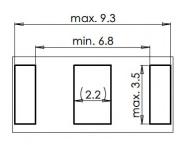
3-electrode arrester

- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- ²⁾ In ionized mode
- ³⁾ Tip or ring electrode to center electrode
- ⁴⁾ Total current through center electrode, half value through tip respectively ring electrode.
 ⁵⁾ Test according to ITU-T Rec. K.12

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

Dimensional drawing in mm



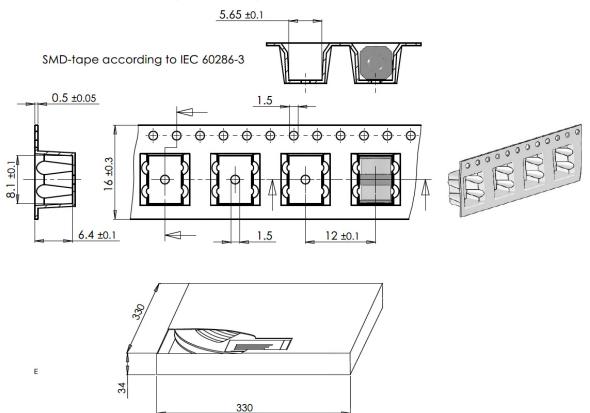


tin-plated

pad outline acc. to IPC-7351 (producibility level A; density level A)

Ordering code and packing advice

B88069X6253**T802** = SMD-tape with 800 pcs.



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Surge arrester

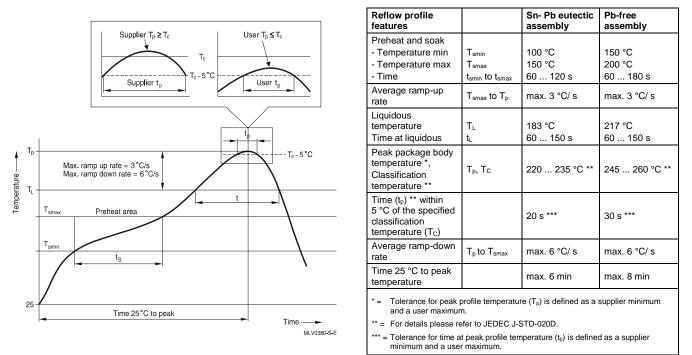
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Soldering parameter

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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