

Surge arrester

2-electrode arrester

Series/Type:EHV63-H40B2Ordering code:B88069X2633B252

Date: Version: 2019-07-05 02

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B88069X2633B252

EHV63-H40B2

Surge arrester

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Features

- Built to automotive standard (IATF 16949)
- Small size
- Fast response time
- High current capability
- Stable performance over service life
- Low capacitance and insertion loss
- High insulation resistance

Electrical specifications

RoHS-compatible

Applications

- Automotive:
- On-board chargers
- Vehicle charging stations

<u>Others:</u>

- LED lighting
- Power supply
- Photovoltaic
- Air conditioning

DC spark-over voltage ^{1) 2)}		4000 ±20	V %
Tolerance			
Min.		3200	V
Max.		4800	V
Impulse spark-over vo	oltage		
at 100 V/µs	- for 99% of measured values	< 5000	V
	 typical values of distribution 	< 4600	V
at 1 kV/µs	- for 99% of measured values	< 5400	V
	 typical values of distribution 	< 4800	V
at 5 kV/µs	- for 99% of measured values	< 5600	V
	 typical values of distribution 	< 5000	V
Service life			
300 operations	8/20 µs	100	A
3 operations	8/20 µs	3	kA
1 operation	8/20 µs	5	kA
Insulation resistance at 100 V_{DC}		> 1	GΩ
Capacitance at 1 MHz		< 1	pF
Arc voltage at 1 A		~ 50	V
Glow to arc transition	current	< 0.3	A
Glow voltage at 0.1 A		~ 250	V
AC withstand voltage (1 min) ³⁾		2000	V
Weight		~ 1	g
Operation and storage temperature		-40 +125	°C
Recommended storag	je		
- temperature	2	+5 +35	°C
- humidity		45 80	%
- period		≤ 2	years
Climatic category (IEC 60068-1)		40/125/21	

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Marking, blue positive	EPCOS 4000 WWY4000- Nominal voltageWW- Calendar week of productionY- Year of production (last digit)
Certifications	UL 1449 (E319264)

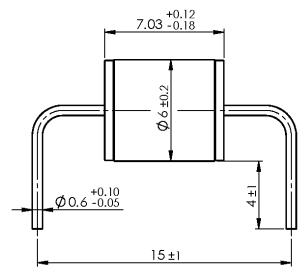
¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859

²⁾ In ionized mode

³⁾ Test conditions in acc. with MIL-STD-202G at 25 ±5 °C, relative humidity of ≤ 55% and atmospheric pressure 860 ... 1100mbar.

Terms and current waveforms in accordance with: ITU-T Rec. K. 12; IEC 61643-21; 61643-311.

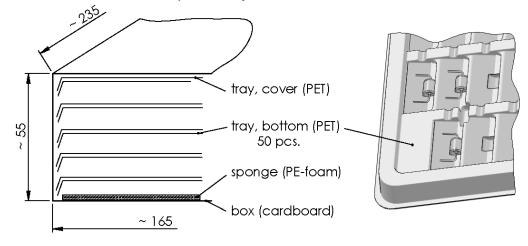
Dimensional drawing in mm





wires tin-plated

Ordering codes and packing advices *B88069X2633***B252** = 250 pcs. in trays



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Version: 02 / 2019-07-05



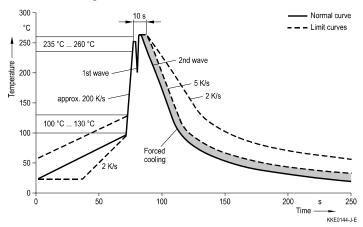
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Soldering parameter

Wave soldering



Wave profile features	Pb-free assembly
Solder	Sn 95.5 / Ag 3.8 / Cu 0.7
Solder bath temperature	263 (±3) °C
Dwell time	< 3 s

Soldering profile applied to a single soldering process.

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.
- Electromagnetic fields and ionizing radiation may affect the electrical characteristics of the arrester. The impact of such effects (inductive and capacitive field distortion from adjacent components) must be avoided by appropriate circuit design measures.
- 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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