

2-electrode arrester

 Series/Type:
 EHV63-H40B1

 Ordering code:
 B88069X3503B252

 Date:
 2015-06-17

 Version:
 04

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### 2-electrode arrester

### Features

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

Electrical specifications

### Applications

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

Others:

- LED lighting
- Power supply
- Photovoltaic
- Air conditioning

DC spark-over voltage <sup>1) 2)</sup>	4000	V
Tolerance	±20 3200 4800	% V V
Min.		
Max.		
Impulse spark-over voltage		
at 100 V/µs - for 99% of measured values	< 5000	V
<ul> <li>typical values of distribution</li> </ul>	< 4600	V
at 1 kV/µs - for 99% of measured values	< 5400	V
<ul> <li>typical values of distribution</li> </ul>	< 4800	V
at 5 kV/µs - for 99% of measured values	< 5600	V
<ul> <li>typical values of distribution</li> </ul>	< 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)	2000	V
Weight	~ 1	g
Operation temperature	-40 +125	°C
Recommended storage		
- temperature	+5 +35	°C
- humidity	45 80	%
- period	≤ <b>2</b>	years
Climatic category (IEC 60068-1)	40/125/21	

Following on next page

#### PPD AB PD / PPD AB PM

B88069X3503B252



### 2-electrode arrester

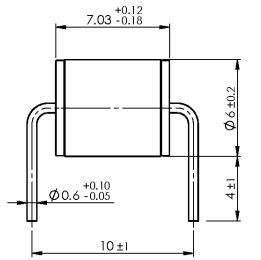
Marking, blue positive	EPCOS 4000 WWY4000- Nominal voltageWW- Calendar week of productionY- Year of production (last digit)
Certifications	UL 1449 (E319264)
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<sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859

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

Terms and current waveforms in accordance with: ITU-T Rec. K. 12; IEC 61643-21; 61643-311; IEC 61663-2.

# Dimensional drawing in mm

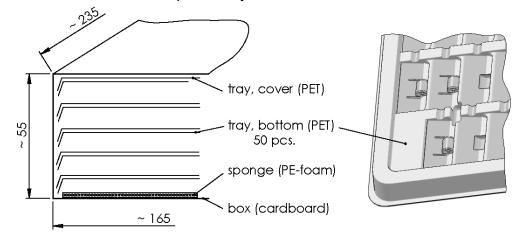




wires tin-plated

### Ordering code and packing advice

B88069X3503**B252** = 250 pcs. in trays



PPD AB PD / PPD AB PM

B88069X3503B252

EHV63-H40B1

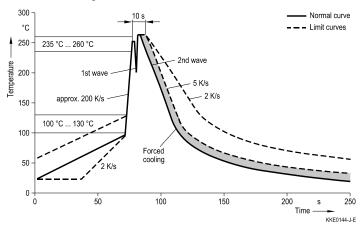


### 2-electrode arrester

B88069X3503B252 EHV63-H40B1

### 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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