

## Surge arrester

3-electrode arrester

Series/Type:EZ0-A250XSMDHCOrdering code:B88069X7251T123

Date: Version: 2021-05-22 04

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V % V V

V V V V

А kΑ А GΩ pF μs V А V

g °C

## Surge arrester

## 3-electrode arrester

B88069X7251T123 EZ0-A250XSMDHC

## Features

- Small size
- Fast response time
- High current rating
- Stable performance over life
- Very low capacitance н.

**Electrical specifications** 

- High insulation resistance
- Excellent SMD handling
- н. **RoHS-compatible**

## **Applications**

Branch exchange (MDF) 

40/125/21

EZHC

250

YΥ

0

EPCOS EZHC 250 YY O

- Series

UL 497B (E163070)

- Nominal voltage

- Year of production - Non radioactive

- Line protection
- . Station protection

| DC spark-over voltage <sup>1) 2) 3)</sup>           |  |                          | 250      |
|---|--|--------------------------|----------|
| Tolerance   |  |                          | ±20      |
| Min.  |  |                          | 200      |
| Max.  |  |                          | 300      |
| Impulse spark-over voltage <sup>3)</sup>            |  |                          |          |
| at 100 V/µs - for 99% of measured values            |  | < 550                    |          |
|   | - typical values of distrib                        | oution                   | < 500    |
| at 1 kV/µs  | 1 kV/µs - for 99% of measured values               |                          | < 700    |
|   | <ul> <li>typical values of distribution</li> </ul> |                          | < 650    |
| Service life  |  |                          |          |
| 10 operations                                       |  | 50 Hz; 1 s <sup>4)</sup> | 10       |
| 10 operations [5× (+) & 5× (–)]                     |  | 8/20 µs <sup>4)</sup>    | 10       |
| 300 operations (+/-, alternating polarity)          |  | 10/1000 µs <sup>4)</sup> | 200      |
| Insulation resistance at 100 $V_{DC}$ <sup>3)</sup> |  |                          | > 1      |
| Capacitance at 1 MHz <sup>3)</sup>                  |  |                          | < 1.5    |
| Transverse delay time 5)                            |  |                          | < 0.2    |
| Arc voltage at 1 A                                  |  |                          | ~ 10     |
| Glow to arc transition current                      |  |                          | < 1      |
| Glow voltage  |  |                          | ~ 80     |
| Weight  |  |                          | ~ 1.0    |
| Operation and storage temperature                   |  |                          | -40 +125 |
|   |  |                          |          |

PPD AB PD / PPD AB PM

Climatic category (IEC 60068-1)

Marking, blue negative

Certifications Remarks on next page

Version: 04 / 2021-05-22

**AI** 

# ΓDK

B88069X7251T123

EZ0-A250XSMDHC

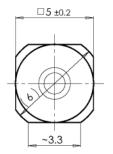
## Surge arrester

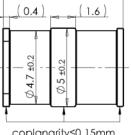
## 3-electrode arrester

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

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

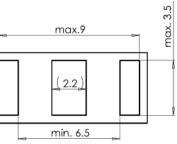
## Dimensional drawing in mm





7.6 ±0.2





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

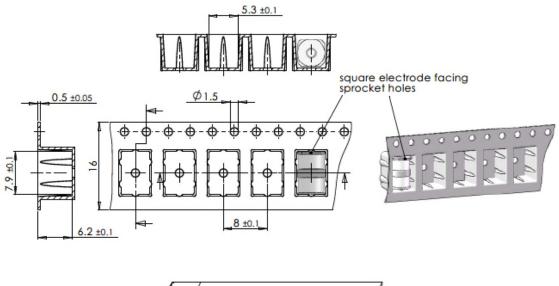


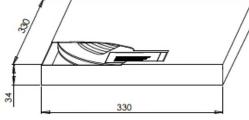
tin-plated

## Ordering code and packing advice

B88069X7251T123 = SMD-tape with 1200 pcs.







PPD AB PD / PPD AB PM



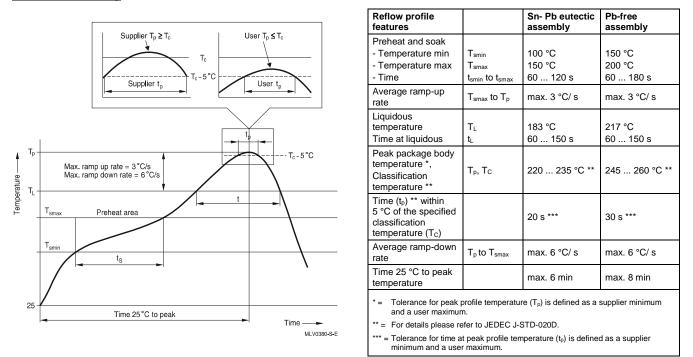
### Surge arrester

#### **3-electrode arrester**

## B88069X7251T123 EZ0-A250XSMDHC

### 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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