

3-electrode arrester

Series/Type:T90-A350XFSMDOrdering code:B88069X9131T902

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V

%

V

V

V

V

V V

А А kΑ kΑ А

GΩ pF

μs V

A

V

g °C

Surge arrester

3-electrode arrester

Features

- Very small size
- Fast response time .
- . High current rating
- Stable performance over life .
- Very low capacitance .
- High insulation resistance
- Reliable failsafe device
- Excellent SMD handling н.
- 11 **RoHS-compatible**

Electrical specifications

DC spark-over voltage ^{1) 2) 3)} 350 Tolerance ±20 Min. 280 Max. 420 Impulse spark-over voltage 3) < 850 at 100 V/µs - for 99% of measured values - typical values of distribution < 750

Applications

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Modem

Data lines

5 2

Arc voltage at 1 A	~ 10
Glow to arc transition current	< 1
Glow voltage	~ 60
Weight	~ 0.8

Climatic category (IEC 60068-1) Marking, blue negative

Operation and storage temperature

EPCOS 350 YY O

YΥ

Ο

-40 ... +125 40/125/21

350

- Nominal voltage

- Year of production - Non radioactive

Continued on next page

PPD AB PD / PPD AB PM

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Certifications	UL 497B (E163070)	R 1°
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- ¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859
- ²⁾ In ionized mode
- ³⁾ Tip or ring electrode to center electrode

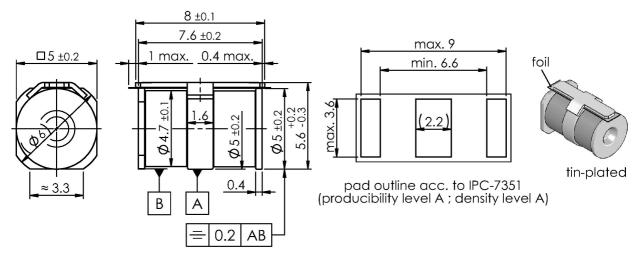
⁴⁾ Total current through center electrode, half value through tip respectively ring electrode.

- ⁵⁾ Test according to ITU-T Rec. K.12
- Terms in accordance with ITU-T Rec. K.12 and IEC 61643-311.

The arrester failsafe mechanism contains an insulating foil with a melting temperature of 260 °C.

Arrester failsafe works at temperatures > 260 °C. The arrester has to be fixed mechanically, if the arrester is contacted by soldering and if the solder temperature is less than 260 °C.

Dimensional drawing in mm





B88069X9131T902

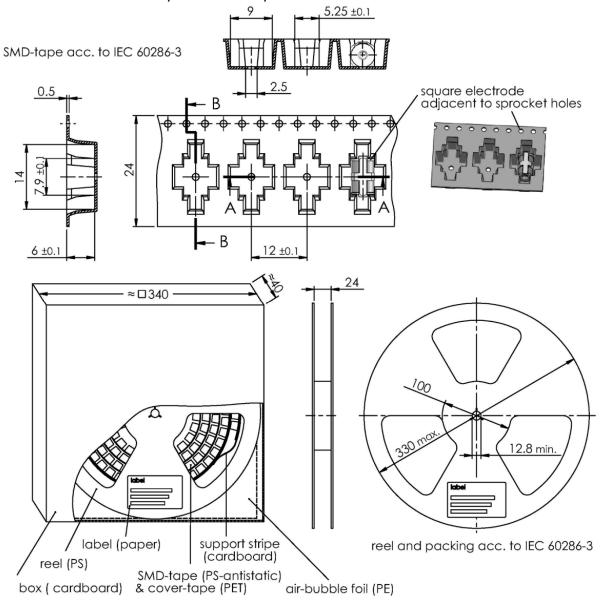
T90-A350XFSMD

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Ordering code and packing advice

B88069X9131**T902** = 900 pcs on SMD tape



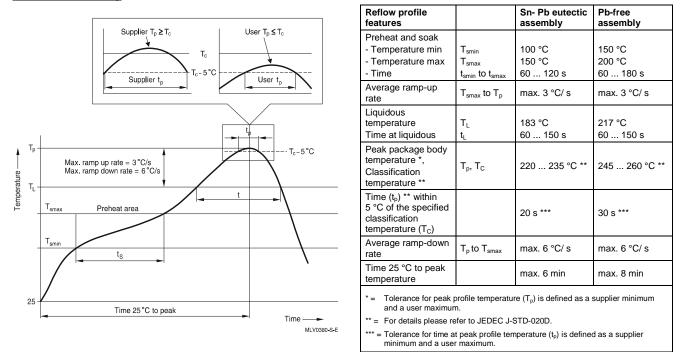


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Soldering parameter

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

- Depending on the sensor material the short-circuit spring does not trigger until 260 °C is reached. Thermal radiation to adjacent components must be taken into consideration in the circuit design. Depending on the mounting position, the surge arrester may have to be secured by additional mechanical means.
- Do not continue to use surge arresters whose short-circuit mechanisms have been activated.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- 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.

PPD AB PD / PPD AB PM



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