

# Surge Arrester

T90-A90XFSMD

## 3-Electrode-Arrester

Ordering code: B88069X4051T902

|   |  |             |
|---|--|-------------|
| DC spark-over voltage <sup>1) 2) 4)</sup>   | 90<br>± 20   | V<br>%      |
| Impulse spark-over voltage <sup>4)</sup><br>at 100 V/μs - for 99 % of measured values <sup>6)</sup><br>- typical values of distribution <sup>6)</sup> | < 550<br>< 450   | V<br>V      |
| at 1 kV/μs - for 99 % of measured values <sup>6)</sup><br>- typical values of distribution <sup>6)</sup>  | < 700<br>< 600   | V<br>V      |
| Nominal impulse discharge current (wave 8/20 μs) <sup>5) 6)</sup>   | 5  | kA          |
| Nominal alternating discharge current (50 Hz, 1 s) <sup>5) 6)</sup>   | 5  | A           |
| Insulation resistance at 50 V <sub>dc</sub> <sup>4)</sup>   | > 1  | GΩ          |
| Capacitance at 1 MHz <sup>4)</sup>  | < 1.5  | pF          |
| Transverse delay time <sup>3)</sup>   | < 0.2  | μs          |
| Arc voltage at 1 A<br>Glow to arc transition current<br>Glow voltage  | ~ 10<br>~ 1<br>~ 60  | V<br>A<br>V |
| Weight  | ~ 0.8  | g           |
| Storage temperature   | -40 ... +90  | °C          |
| Climatic category (IEC 60068-1)   | 40/ 90/ 21   |             |
| Marking, blue   | <b>EPCOS</b><br><b>90 YY O</b><br>90 - Nominal voltage<br>YY - Year of production<br>O - Non radioactive |             |

<sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859

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

<sup>3)</sup> Test according to ITU-T Rec. K.12

<sup>4)</sup> Tip or ring electrode to center electrode

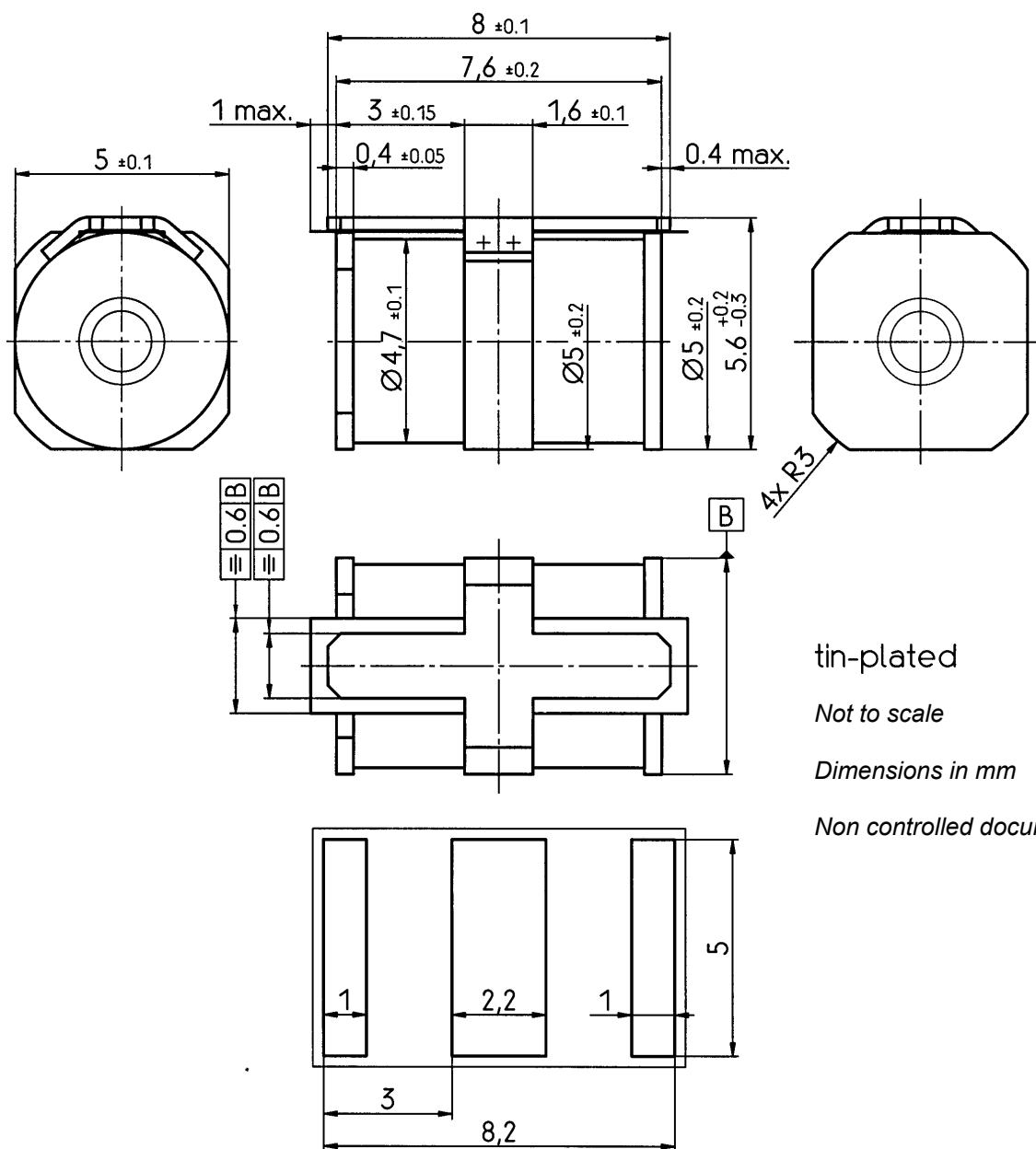
<sup>5)</sup> Total current through center electrode, half value through tip respectively ring electrode.

<sup>6)</sup> under test

Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

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

The 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.



tin-plated

Not to scale

Dimensions in mm

Non controlled document

recommended pad outline

SMD-Gurtverpackung nach IEC 60286-3 /

Tape and reel packing comply with the specification of IEC 60286-3

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