

Surge Arrester
T30-A90X
3-Electrode-Arrester
Ordering code: B88069X3030C253

| | | |
|--|--|------------------|
| DC spark-over voltage ^{1) 2) 3)} | 72 ... 108 | V |
| DC spark-over voltage ^{3) 5)} | 72 ... 180 | V |
| DC spark-over voltage ^{2) 4)} | 72 ... 230 | V |
| Impulse spark-over voltage at 1 kV/μs - for 99 % of measured values ³⁾ | < 500 | V |
| - for 50 % of measured values ³⁾ | < 380 | V |
| at 1 kV/μs - for 99 % of measured values ⁴⁾ | < 700 | V |
| - for 50 % of measured values ⁴⁾ | < 600 | V |
| Insulation resistance at 50 V _{dc} ³⁾ | > 1 | GΩ |
| Capacitance at 1 MHz ³⁾ | < 1.5 | pF |
| Service life according to EPCOS | | |
| 10 operations 8/20 μs ⁶⁾ | 10 | kA |
| 10 operations 8/20 μs ⁷⁾ | 5 | kA |
| 10 operations 50 Hz; 1 s ⁶⁾ | 10 | A _{rms} |
| 10 operations 50 Hz; 1 s ⁷⁾ | 5 | A _{rms} |
| Values after loading | | |
| Insulation resistance at 50 V _{dc} ^{3) 8)} | > 10 | MΩ |
| DC spark-over voltage ^{2) 3)} | 65 ... 150 | V |
| DC spark-over voltage ^{2) 4)} | 65 ... 250 | V |
| Impulse spark-over voltage at 1 kV/μs - for 99 % of measured values ³⁾ | < 700 | V |
| - for 99 % of measured values ⁴⁾ | < 900 | V |
| Activation after reflow soldering ⁹⁾ | | |
| 1 operation U _{RMS} = 600 V; 1 s | 2 | A |
| Weight | ~ 1.2 | g |
| Operation and storage temperature | -40 ... +90 | °C |
| Climatic category (IEC 60068-1) | 40/ 90/ 21 | |
| Marking, blue | EPCOS 90 YY O 90 - Nominal voltage YY - Year of production O - Non radioactive | |

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

²⁾ In ionized mode

³⁾ Tip or ring electrode to center electrode

⁴⁾ Tip to ring electrode

⁵⁾ After 1 day storage in darkness for 80 % of tubes

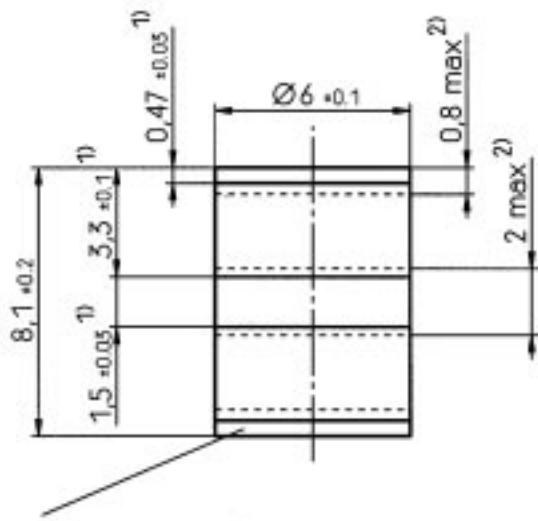
⁶⁾ Total current through center electrode, half value through tip respectively ring electrode

⁷⁾ Total current through center electrode, same value through tip respectively ring electrode

⁸⁾ For 80 % of tubes

⁹⁾ Total current from ring to tip electrode

Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE 0845



Elektroden müssen frei von Farbresten sein /
electrodes must be free of paint
Werkstoff / material OF - Cu F20
Oberfläche verzinkt / surface tin-plated > 7 µm

- 1) Fertigungsmaß ohne Oberfläche /
manufacturing dim. w/o plating
- 2) elektr.leitfähige Bereiche /
conductive areas



Schichtdicken-Meßpunkt
Teilkreis Ø5 ±0.1
measuring point of
plating thickness Ø5 ±0.1
Oberfläche mattverzinkt, bleifrei
surface dull tin-plated, lead free
Zinkschichtdicke } (14 ±7) µm
thickness of tin }

Test :
AQL 0.65
Niv. S - 3 (einfach / single)

Not to scale

Dimensions in mm

Non controlled document

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