

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⁾ - for 50 % of measured values ³⁾	< 500 < 380	V V
at 1 kV/μs - for 99 % of measured values ⁴⁾ - for 50 % of measured values ⁴⁾	< 700 < 600	V 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⁾ - for 99 % of measured values ⁴⁾	< 700 < 900	V 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

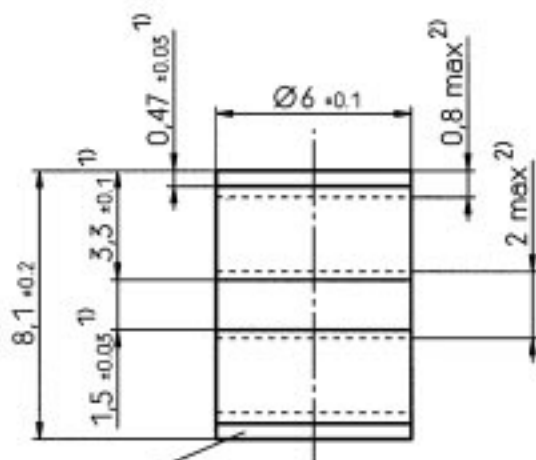
⁶⁾ Total current through center electrode, half value through tip respectively ring electrode

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

Zinnschichtdicke } (14 ±7) µm
thickness of tin

Test :

AQL 0.65

Niv. S - 3 (einfach / single)

Not to scale

Dimensions in mm

Non controlled document