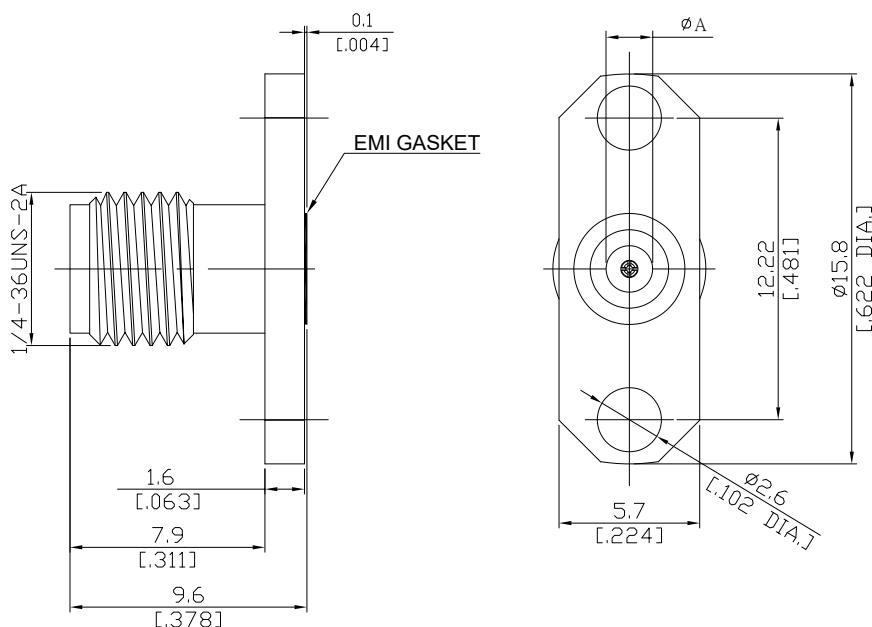


Precision SMA Jack (female) Connector 2 Straight Field Replaceable
12.22mm (.481 inch) Hole Spacing DC-27GHz VSWR1.15

PCA2BT50-0020D / 9X



P/N	Accept Pin mm [inch]	Max. Pin Depth mm [inch]	Ø A mm [inch]
PCA2BT50-0020D/9X	0.51 [0.020]	2.54 [0.100]	2.67 [0.105]
PCA2BT50-0018D/9X	0.46 [0.018]	2.54 [0.100]	2.59 [0.102]
PCA2BT50-0015D/9X	0.38 [0.015]	2.54 [0.100]	1.96 [0.077]
PCA2BT50-0012D/9X	0.30 [0.012]	1.90 [0.075]	1.96 [0.077]
PCA2BT50-0009D/9X	0.23 [0.009]	1.65 [0.065]	1.52 [0.060]

All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

According to

IEC 60169-15; MIL-STD-348B/310

Electrical Data

Impedance

50 Ω

Frequency

DC to 27 GHz

VSWR (Return Loss)

≤ 1.15 (≥ 23.13 dB)

Insertion Loss

≤ 0.04 x √F (GHz) dB

Insulation Resistance

≥ 5 GΩ

Center Contact Resistance

≤ 3.0 mΩ

Outer Contact Resistance

≤ 2.0 mΩ

Test Voltage

1000 V rms

Working voltage

480 V rms

Power handling

≤ 200 W @ 2 GHz

RF-leakage

≥ 100 dB up to 1 GHz

Material And Plating

Piece Parts

Material

Plating

Centre contact

Beryllium Copper

Gold plating, 3 μinch

(Non-magnetic nickel-phosphorus underplating, 80 μinch)

Body

Stainless Steel

Passivated

Insulator

PTFE

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Mechanical Data

Coupling mechanisms	Screw-lock
Mating Cycles	≥ 500
Captivated Type	Mechanical
Center Contact Captivation: axial	≥ 27 N
Coupling Test Torque	1.70 Nm
Recommended Torque	0.80 Nm to 1.1 Nm

Environmental Data

Temperature Range	-65°C to +165°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. D
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture Resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Packing

Single or 100