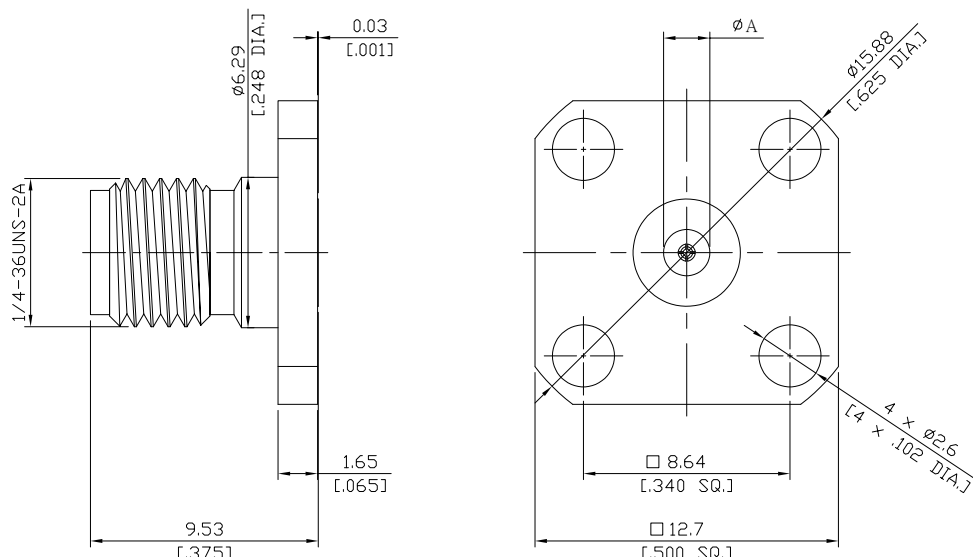


Precision SMA Jack (female) Connector 4 Straight Field Replaceable  
8.64mm (.340 inch) Hole Spacing DC-27GHz VSWR1.15

**PCA2BF50-0012A / 9X**



| Rosnol P/N        | Pin Size       | Max. Pin Depth | φA              |
|-------------------|----------------|----------------|-----------------|
| PCA2BF50-0036A/9X | 0.91mm [.036"] | 2.54mm [.100"] | 3.91mm [.1540"] |
| PCA2BF50-0020A/9X | 0.51mm [.020"] | 2.54mm [.100"] | 2.65mm [.1045"] |
| PCA2BF50-0018A/9X | 0.46mm [.018"] | 2.54mm [.100"] | 2.59mm [.1020"] |
| PCA2BF50-0015A/9X | 0.38mm [.015"] | 2.54mm [.100"] | 1.94mm [.0765"] |
| PCA2BF50-0012A/9X | 0.30mm [.012"] | 1.91mm [.075"] | 1.94mm [.0765"] |
| PCA2BF50-0009A/9X | 0.23mm [.009"] | 1.65mm [.065"] | 1.53mm [.0602"] |

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<br>(Non-magnetic nickel-phosphorus underplating, 80 μinch) |
| Body           | Stainless Steel  | Passivated                                                                       |
| Insulator      | PTFE             |                                                                                  |

Precision SMA Jack (female) Connector 4 Straight Field Replaceable  
8.64mm (.340 inch) Hole Spacing DC-27GHz VSWR1.15

**PCA2BF50-0018A / 9X**

**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