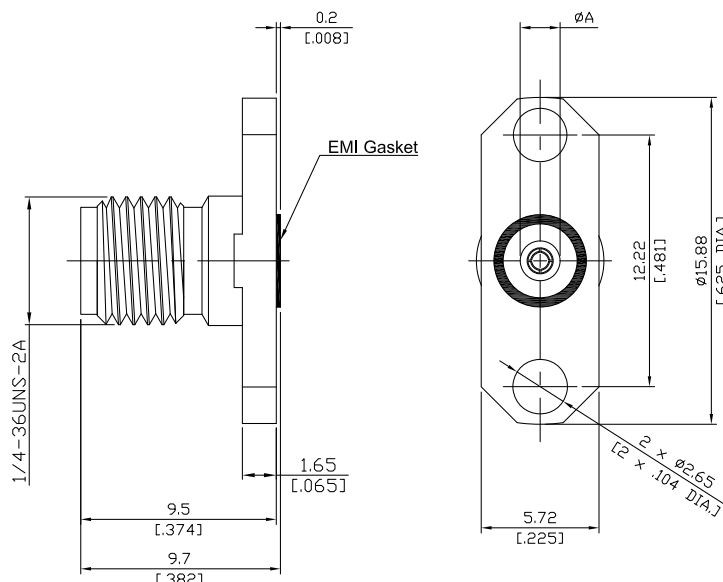


Precision SMA Jack (Female) Field Replaceable Connector with EMI  
Gasket 2 Hole Flange Mount .481 Hole Spacing, .009 inch Accept Pin  
DC-27GHz VSWR1.15

## PCA2BT50-0009A-EMI / 9X



| P/N                   | Accept Pin<br>mm [inch] | Max. Pin Depth<br>mm [inch] | Ø A<br>mm [inch] |
|-----------------------|-------------------------|-----------------------------|------------------|
| PCA2BT50-0036A-EMI/9X | 0.91 [.036]             | 2.54 [.100]                 | 3.91 [.154]      |
| PCA2BT50-0020A-EMI/9X | 0.51 [.020]             | 2.54 [.100]                 | 2.67 [.105]      |
| PCA2BT50-0018A-EMI/9X | 0.46 [.018]             | 2.54 [.100]                 | 2.59 [.102]      |
| PCA2BT50-0015A-EMI/9X | 0.38 [.015]             | 2.54 [.100]                 | 1.96 [.077]      |
| PCA2BT50-0012A-EMI/9X | 0.30 [.012]             | 1.90 [.075]                 | 1.96 [.077]      |
| PCA2BT50-0009A-EMI/9X | 0.23 [.009]             | 1.65 [.065]                 | 1.52 [.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<br>(Non-magnetic nickel-phosphorus underplating, 80 μinch) |
| Body           | Stainless Steel               | Passivated                                                                       |
| Insulator      | PTFE                          |                                                                                  |
| EMI Gasket     | Conductive Silicone Elastomer |                                                                                  |

The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Rev.:  
Date: JUL/16/2021

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DC-27GHz VSWR1.15

## PCA2BT50-0009A-EMI / 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