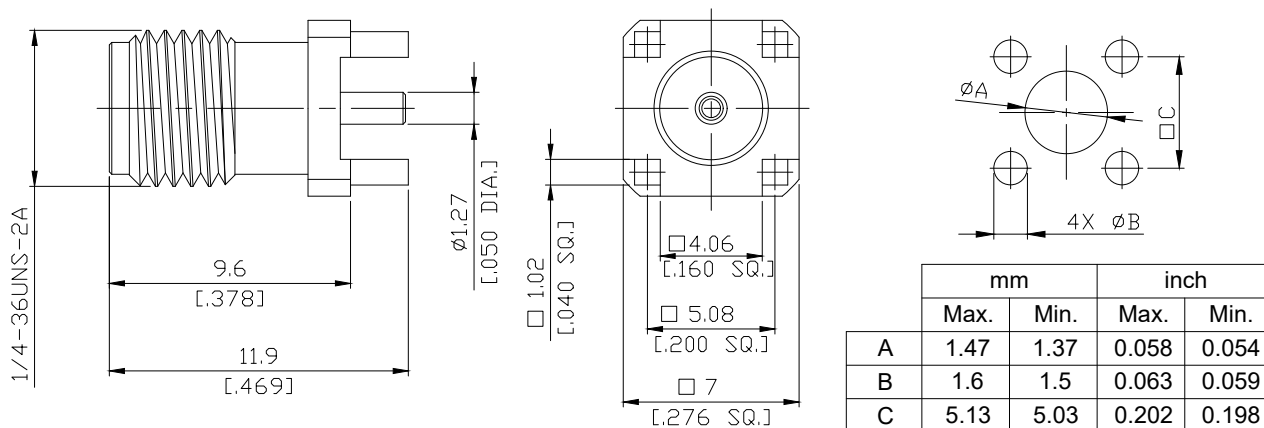


SMA Jack (female) PCB Through Holes Straight Connector  
DC-18GHz VSWR1.25

**SMA2I50-1190B / 91**

Mounting Dimensions



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  $\Omega$

Frequency

DC to 18 GHz

VSWR (Return Loss)

$\leq 1.25$  ( $\geq 19.1$  dB)

Insertion Loss

$\leq 0.04 \times \sqrt{F}$  (GHz) dB

Insulation Resistance

$\geq 5$  G $\Omega$

Center Contact Resistance

$\leq 3$  m $\Omega$

Outer Contact Resistance

$\leq 2$  m $\Omega$

Test Voltage

1000 V rms

Working Voltage (at sea level)

480 V rms

Power Handling (at 20 °C, sea level, VSWR 1.0)

$\leq 200$  W @ 2 GHz;  $\leq 100$  W @ 10 GHz

RF-leakage

100 dB up to 1 GHz

**Material And Plating**

| Connector parts | Material         | Plating                                                                          |
|-----------------|------------------|----------------------------------------------------------------------------------|
| Centre contact  | Beryllium Copper | Gold plating, 3 pinch<br>(Non-magnetic nickel-phosphorus underplating, 80 pinch) |
| Body            | Brass            | Gold plating, 3 pinch<br>(Non-magnetic nickel-phosphorus underplating, 80 pinch) |
| Insulator       | PTFE             |                                                                                  |

SMA Jack (female) PCB Through Holes Straight Connector  
DC-18GHz VSWR1.25

**SMA2I50-1190B / 91**

**Mechanical Data**

|                                   |                  |
|-----------------------------------|------------------|
| Coupling mechanisms               | Screw-lock       |
| Mating cycles                     | min. 500         |
| Center contact captivation: axial | ≥ 27 N           |
| Board mounting type               | Through Holes    |
| Coupling test torque              | max. 1.7 Nm      |
| Recommended torque                | 0.8 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