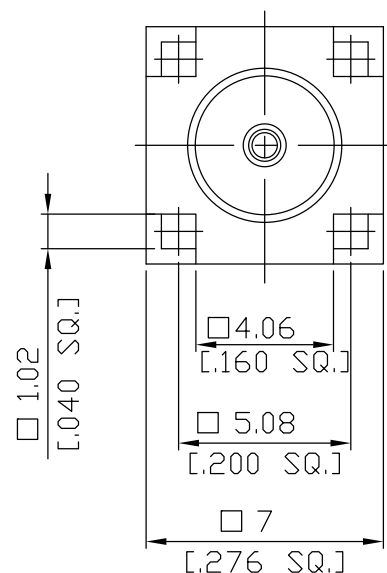
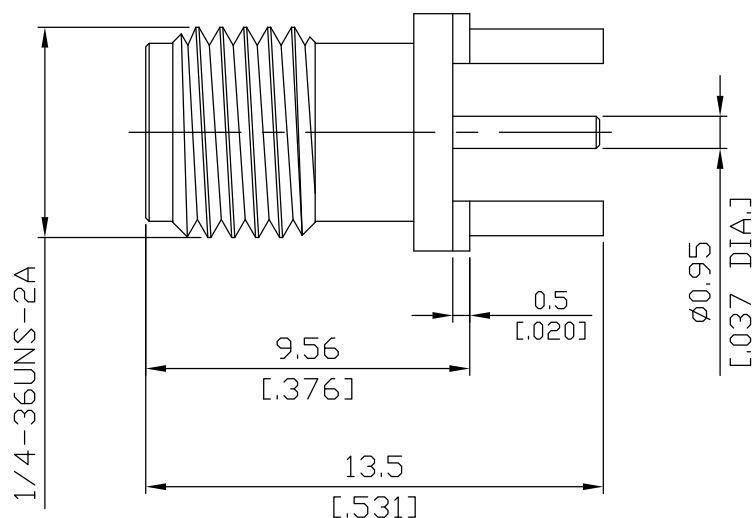


SMA Jack (female) PCB Through Holes Straight Connector  
DC-18GHz VSWR1.30

**SMA2I50-1350C / 91**



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 18 GHz                      |
| VSWR (Return Loss)                             | ≤ 1.25 (≥ 19.1 dB)                |
| Insertion Loss                                 | ≤ 0.04 × √F (GHz) dB              |
| Insulation Resistance                          | ≥ 5 GΩ                            |
| Center Contact Resistance                      | ≤ 3 mΩ                            |
| Outer Contact Resistance                       | ≤ 2 mΩ                            |
| Test Voltage                                   | 1000 V rms                        |
| Working Voltage (at sea level)                 | 480 V rms                         |
| Power Handling (at 20 °C, sea level, VSWR 1.0) | ≤ 200 W @ 2 GHz; ≤ 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  
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**SMA2I50-1350C / 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