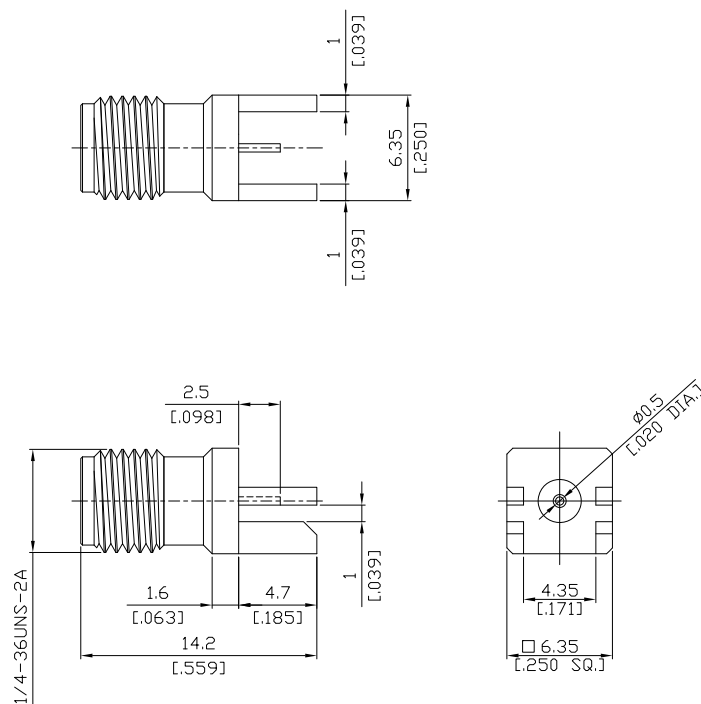


SMA Jack(female) PCB End Launch Straight Coaxial Pin Air Space Design

**SMA2H3A50-0100A / 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)        | ≤1.20 (≥ 20.83 dB) @ 6 GHz | ≤1.30 (≥ 17.69 dB) @ 18 GHz |
| Insertion loss            | ≤ 0.03 x √F (GHz) dB       |                             |
| Insulation resistance     | ≥ 5 GΩ                     |                             |
| Center contact resistance | ≤ 3 mΩ                     |                             |
| Outer contact resistance  | ≤ 2 mΩ                     |                             |
| Test voltage              | 1000 V rms                 |                             |
| Working voltage           | 480 V rms                  |                             |
| Power handling            | ≤ 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 μinch<br>(Non-magnetic nickel-phosphorus underplating, 80 μinch) |
| Body            | Brass            | Gold plating, 3 μinch<br>(Non-magnetic nickel-phosphorus underplating, 80 μinch) |
| Insulator       | PTFE             |                                                                                  |

## SMA Jack(female) PCB End Launch Straight Coaxial Pin Air Space Design

# SMA2H3A50-0100A / 91

### Mechanical Data

|                                   |                  |
|-----------------------------------|------------------|
| Coupling mechanisms               | Screw-lock       |
| Mating cycles                     | min. 500         |
| Center contact captivation: axial | ≥ 20 N           |
| radial                            | ≥ 1 Ncm          |
| Board mounting type               | End Launch       |
| 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