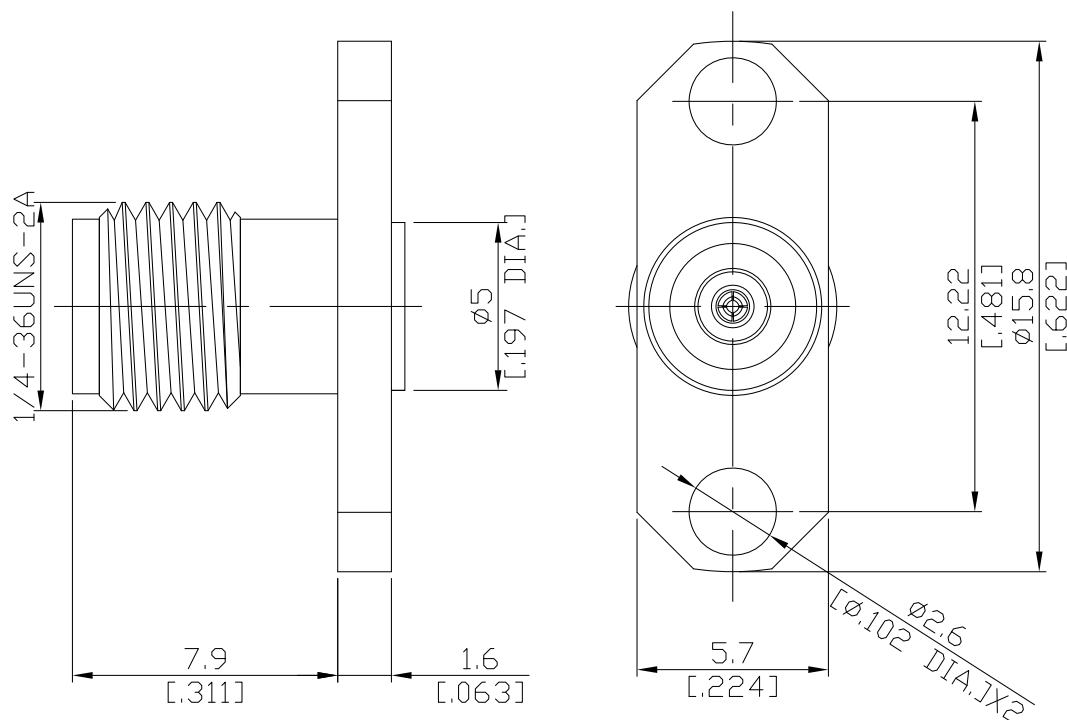


SMA Jack (female) Connector 2 Straight Field Replaceable  
12.22mm (.481 inch) Hole Spacing DC-18GHz VSWR1.25

**SMA2BT50-0018A / 9X**



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

SMA Jack (female) Connector 2 Straight Field Replaceable  
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## SMA2BT50-0018A / 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