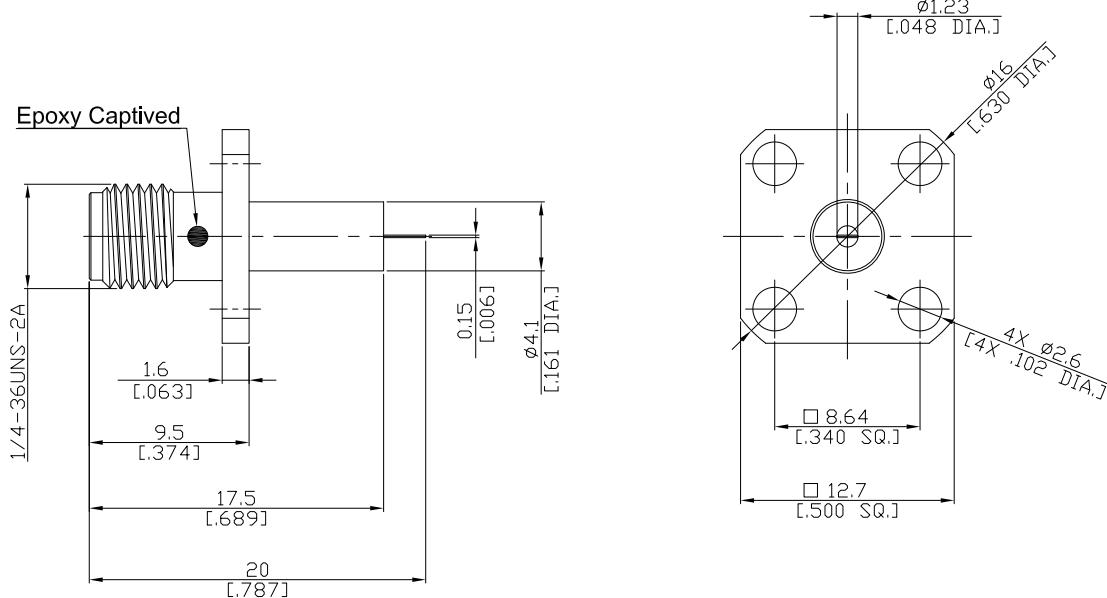


SMA Jack (Female) Connector Solder Attachment 4 Hole Flange Mount  
Flat Terminal, 8.64mm (.340 inch) Hole Spacing DC-18GHz VSWR1.30

## SMA2GFD50-2000A-EC / 91



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

### Interface

According to

IEC 61169-15; MIL-STD-348B/310

### Electrical Data

Impedance 50 Ω

Frequency DC to 18 GHz

VSWR (Return Loss) ≤ 1.30 (≥ 17.7 dB)

Insertion Loss ≤ 0.05 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 (at sea level) 480 V rms

Power Handling (at 20 °C, sea level, VSWR 1.0) ≤ 200 W @ 2 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           | Brass            | Gold plating, 3 µinch<br>(Non-magnetic nickel-phosphorus underplating, 80 µinch) |
| Insulator      | PTFE             |  |

SMA Jack (Female) Connector Solder Attachment 4 Hole Flange Mount Flat Terminal, 8.64mm (.340 inch) Hole Spacing DC-18GHz VSWR1.30

SMA2GFD50-2000A-EC / 91

## Mechanical Data

|                                   |                   |
|-----------------------------------|-------------------|
| Coupling mechanisms               | Screw-lock        |
| Mating Cycles                     | $\geq 500$        |
| Centre Contact                    | Soldered          |
| Terminal Type                     | Flat              |
| Captivated Type                   | Epoxy Captivation |
| Center Contact Captivation: axial | $\geq 27$ N       |
|                                   | $\geq 3$ Ncm      |
| radial                            |                   |
| Coupling Test Torque              | max. 1.7 Nm       |
| Recommended Torque                | 0.8 Nm to 11 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