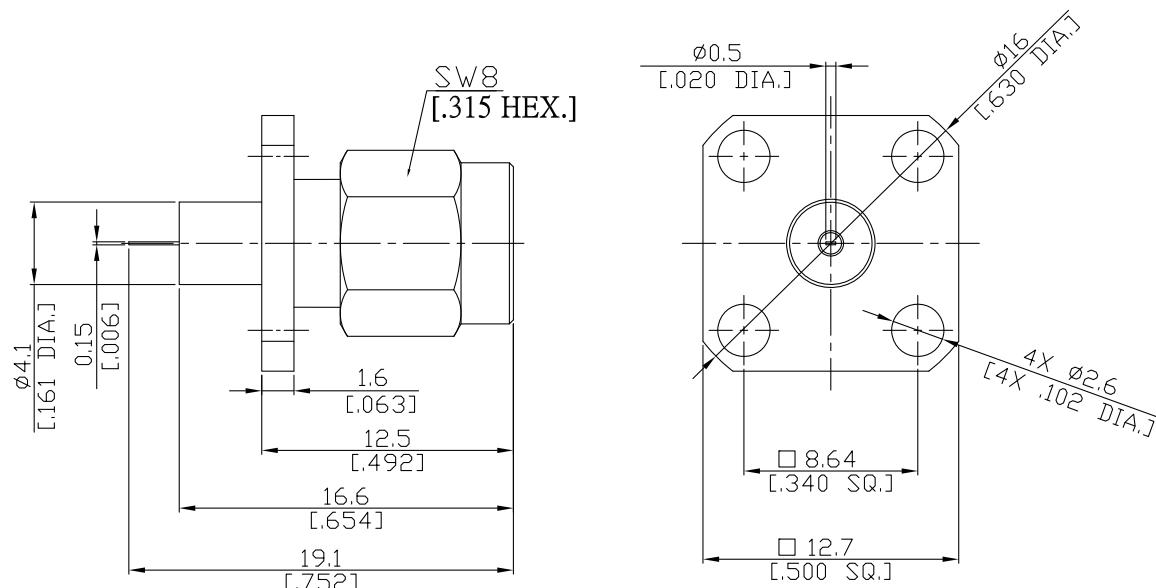


SMA Plug (male) Connector Solder Attachment 4 Hole Flange Mount
 Flat Terminal, 8.64mm (.340 inch) Hole Spacing DC-18GHz VSWR1.30

SMA1GFD50-1910A / 111



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 | Brass | Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch) |
| Body | Brass | Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch) |
| Insulator | PTFE | |

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SMA1GFD50-1910A / 111

Mechanical Data

| | |
|-----------------------------------|----------------------|
| Coupling mechanisms | Screw-lock |
| Mating Cycles | ≥ 500 |
| Centre Contact | Soldered |
| Terminal Type | Flat |
| Captivated Type | Mechanical |
| Center Contact Captivation: axial | $\geq 27 \text{ N}$ |
| | radial |
| Coupling Test Torque | $\geq 3 \text{ Ncm}$ |
| Recommended Torque | max. 1.7 Nm |
| | 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