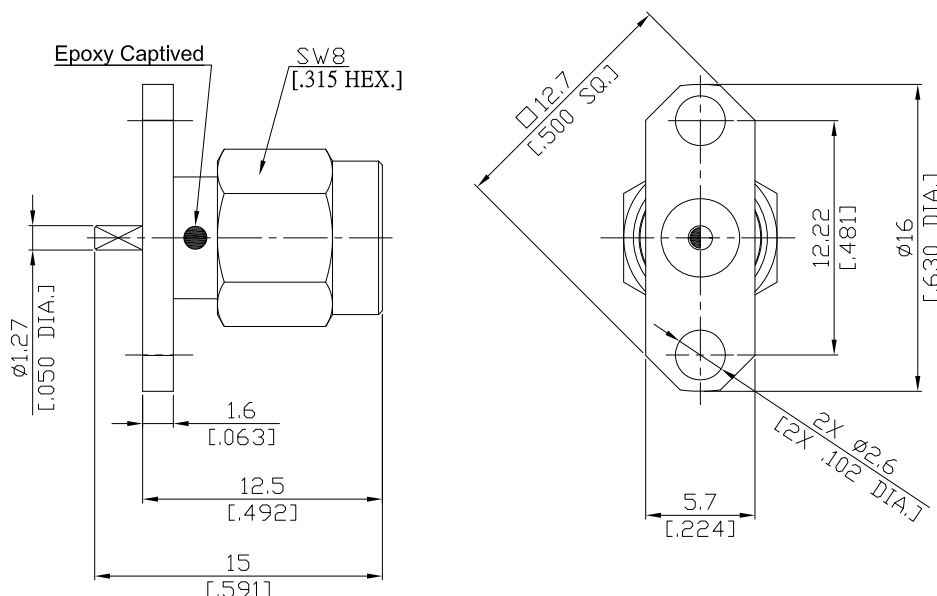


SMA plug (male) Connector Solder Attachment 2 Hole Flange Mount
Semicircular Terminal, 12.22mm (.481 inch) Hole Spacing DC-18GHz VSWR1.30

SMA1GTD50-1500A-EC / 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 | |
| Gasket | Silicone Rubber | |
| Coupling nut | Brass | Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch) |

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Mechanical Data

| | |
|-----------------------------------|-------------------|
| Coupling mechanisms | Screw-lock |
| Mating Cycles | ≥ 500 |
| Centre Contact | Soldered |
| Terminal Type | Semicircular |
| Captivated Type | Epoxy Captivation |
| Center Contact Captivation: axial | ≥ 27 N |
| radial | ≥ 3 Ncm |
| 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