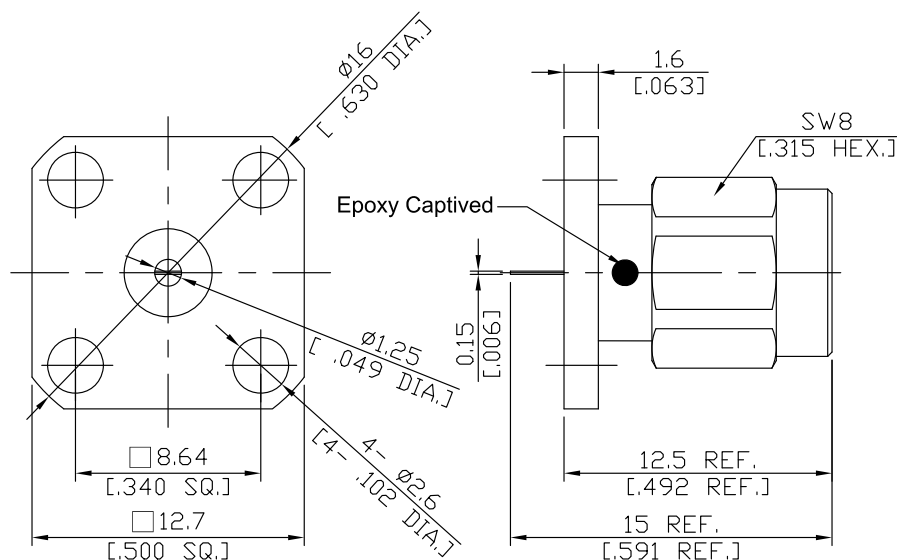


SMA Plug (male) Connector Solder Attachment 4 Hole Flange Mount  
Flat Terminal, 8.64mm (.340 inch) Hole Spacing Epoxy Captivated DC-18GHz VSWR1.30

## SMA1GFD50-1500A-EC / 111



Mounting Dimension

|   | mm   |      | inch |      |
|---|------|------|------|------|
|   | Max. | Min. | Max. | Min. |
| A | 4.3  | 4.2  | .169 | .165 |
| B | 2.7  | 2.6  | .106 | .102 |
| C | 8.69 | 8.59 | .342 | .338 |

All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

### Interface

According to

IEC 60169-15; CECC 22110; MIL-PRF-39012; MIL-STD-348B/310; EN 122110

### Electrical Data

|   |                                      |
|---|--------------------------------------|
| Impedance   | 50 $\Omega$                          |
| Frequency   | DC to 18 GHz                         |
| VSWR (Return Loss)  | $\leq 1.30$ ( $\geq 17.69$ dB)       |
| Insertion Loss  | $\leq 0.04 \times \sqrt{f}$ (GHz) dB |
| Insulation Resistance   | $\geq 5$ G $\Omega$                  |
| Center Contact Resistance   | $\leq 3$ m $\Omega$                  |
| Outer Contact Resistance  | $\leq 2$ m $\Omega$                  |
| Test Voltage  | 1000 V rms                           |
| Working Voltage (at sea level)  | 480 V rms                            |
| Power Handling (at 20 °C, sea level, VSWR 1.0)                        | $\leq 200$ W @ 2 GHz                 |
| -VSWR in application depends decisive on PCB layout or cavity design- |                                      |

### Material And Plating

| Piece Parts    | Material        | Plating   |
|----------------|-----------------|---|
| Centre contact | Brass           | Gold plating<br>(Non-magnetic nickel-phosphorus underplating) |
| Body           | Brass           | Gold plating<br>(Non-magnetic nickel-phosphorus underplating) |
| Insulator      | PTFE            |   |
| Coupling Nut   | Brass           | Gold plating<br>(Non-magnetic nickel-phosphorus underplating) |
| Gasket         | Silicone Rubber |   |

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## SMA1GFD50-1500A-EC / 111

### Mechanical Data

|                                   |                   |
|-----------------------------------|-------------------|
| Coupling mechanisms               | Screw-lock        |
| Mating Cycles                     | ≥ 500             |
| Centre Contact                    | Soldered          |
| Terminal Type                     | Flat              |
| 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