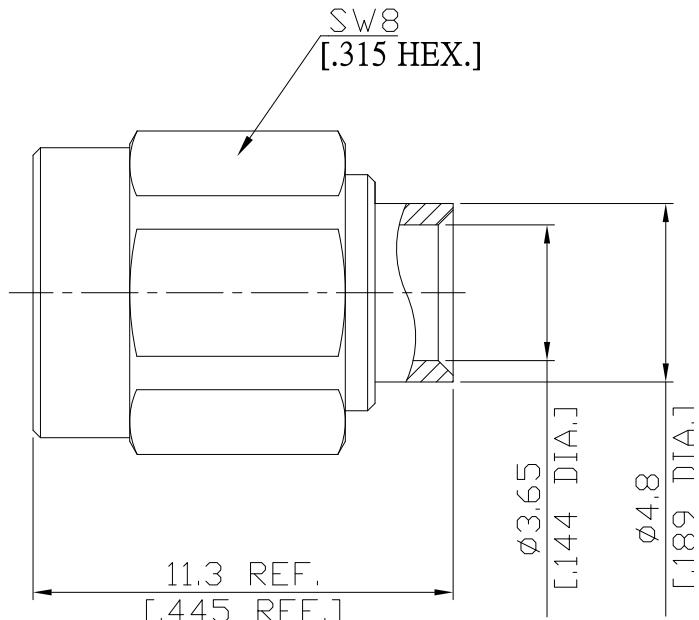


**SMA Plug (Male) Connector Solder/Solder  
Attachment for RSF141, RSR141, EF402 DC-18GHz VSWR1.20**

**SMA1E50-0141A / 933**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

#### Interface

According to

IEC 60169-15;CECC 22110; MIL-PRF-39012 SMA; MIL-STD-348/310

#### Electrical Data

|  |                      |
|--|----------------------|
| Impedance                                      | 50 Ω                 |
| Frequency                                      | DC to 18 GHz         |
| VSWR (Return Loss)                             | ≤ 1.20 (≥ 20.83 dB)  |
| Insertion Loss                                 | ≤ 0.03 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      |
| RF-leakage                                     | ≥ 100 dB up to 1 GHz |

-VSWR in application depends decisive on cable assembly process-

#### Material And Plating

| Connector parts | Material         | Plating   |
|-----------------|------------------|---|
| Centre contact  | Beryllium Copper | Gold plating<br>(Non-magnetic nickel-phosphorus underplating) |
| Body            | Brass            | Nickel  |
| Insulator       | PTFE             |   |
| Coupling Nut    | Brass            | Nickel  |
| Gasket          | Silicone Rubber  |   |

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**Mechanical Data**

|                      |                  |
|----------------------|------------------|
| Coupling mechanisms  | Screw-lock       |
| Mating Cycles        | min. 500         |
| Centre Contact       | Soldered         |
| Cable Entry          | Soldered         |
| 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                       |

**Suitable Cables**

RSR-141, RSF-141, RSF-141-FEP, UT 141, RG 402/U, RTK-FS 141, RTK-Flex 402, BELDEN 1673A

**Packing**

Single or 100