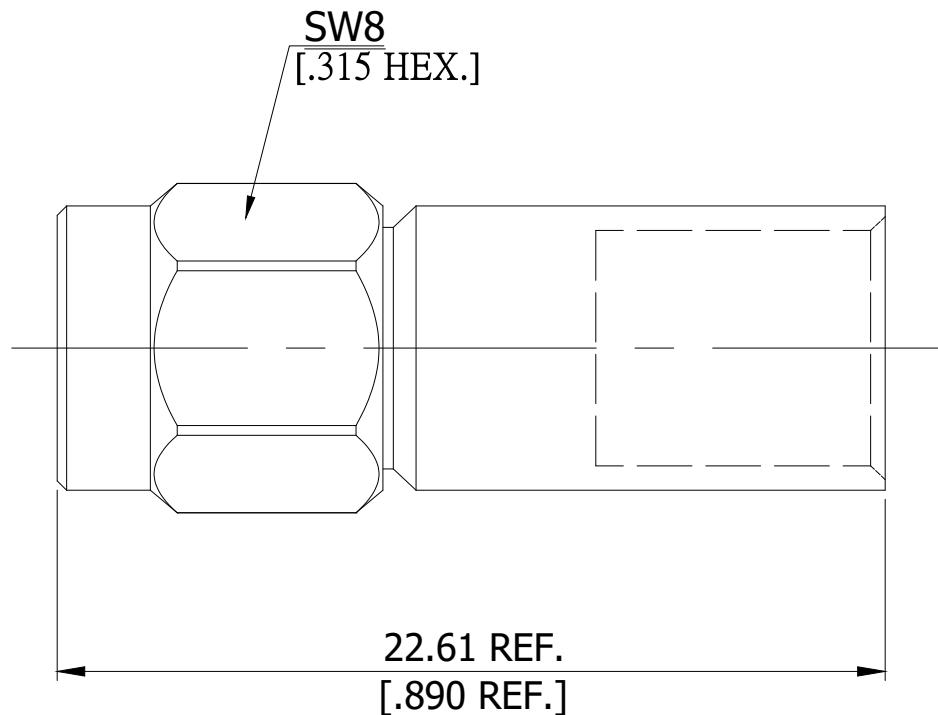


**SMA Plug (Male) Connector Solder Attachment For RSR250, RSF250, RG401,  
DC-18GHz VSWR1.20**
**SMA1E50-0250A / 144**


All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

**Interface**

According to

IEC 60169-15; MIL-STD-348B/310

**Electrical Data**

Impedance

50 Ω

Frequency

DC to 18 GHz

VSWR (Return Loss)

≤ 1.20 (≥ 20.83 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

≥ 100 dB up to 1 GHz

**Material And Plating**
**Connector parts**
**Material**
**Plating**

Centre contact

Brass

Gold plating, 5 µinch

(Non-magnetic nickel-phosphorus underplating, 80 µinch)

Body

Brass

Copper-Tin-Zinc Alloy

Insulator

PTFE

Coupling Nut

Brass

Copper-Tin-Zinc Alloy

SMA Plug (Male) Connector Solder Attachment For RSR250, RSF250, RG401,  
DC-18GHz VSWR1.20**SMA1E50-0250A / 144****Mechanical Data**

Coupling mechanisms	Screw-lock
Mating Cycles	min. 500
Centre Contact	Soldered
Center conductor	Soldered
Coupling Test Torque	max. 1.7 Nm
Recommended Torque	0.8 Nm to 1.1 Nm

**Environmental Data**

Temperature Range	-65°C to +15°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-250, RSF-250, RSF-250-FEP, RG 401

**Packing**

Single or 100