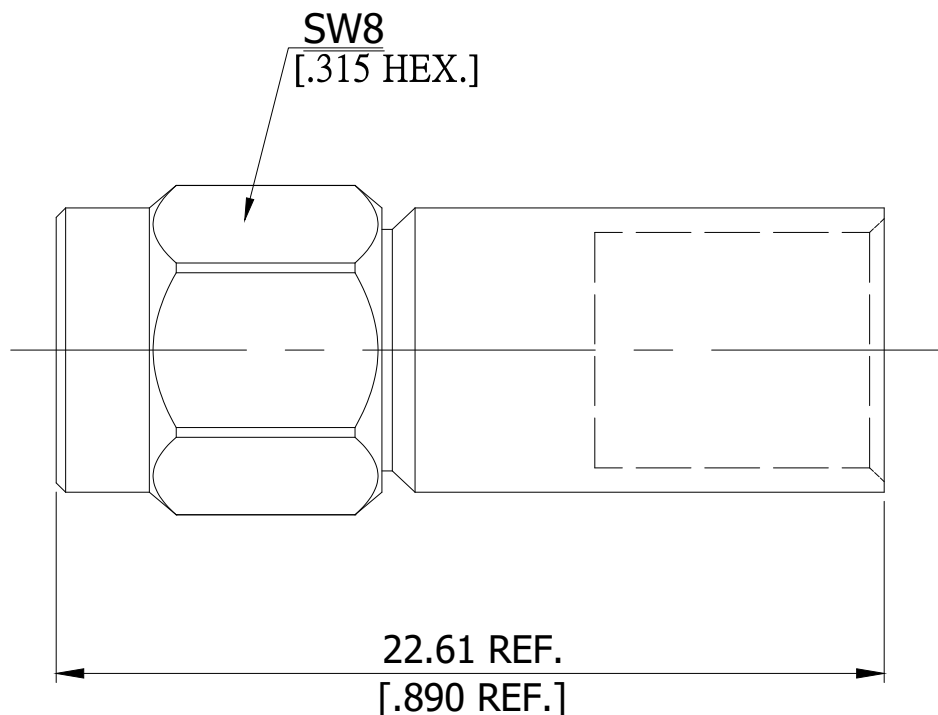


SMA Plug (Male) Connector Solder Attachment For RSR250, RSF250, RG401,  
DC-18GHz VSWR1.20

**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 $\Omega$	
Frequency	DC to 18 GHz	
VSWR (Return Loss)	$\leq 1.20$ ( $\geq 20.83$ dB)	
Insertion Loss	$\leq 0.05 \times \sqrt{F}$ (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	$\geq 100$ dB up to 1 GHz

**Material And Plating**

Connector parts	Material	Plating
Centre contact	Brass	Gold plating, 5 $\mu$ inch (Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Coupling Nut	Brass	Copper-Tin-Zinc Alloy

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## 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