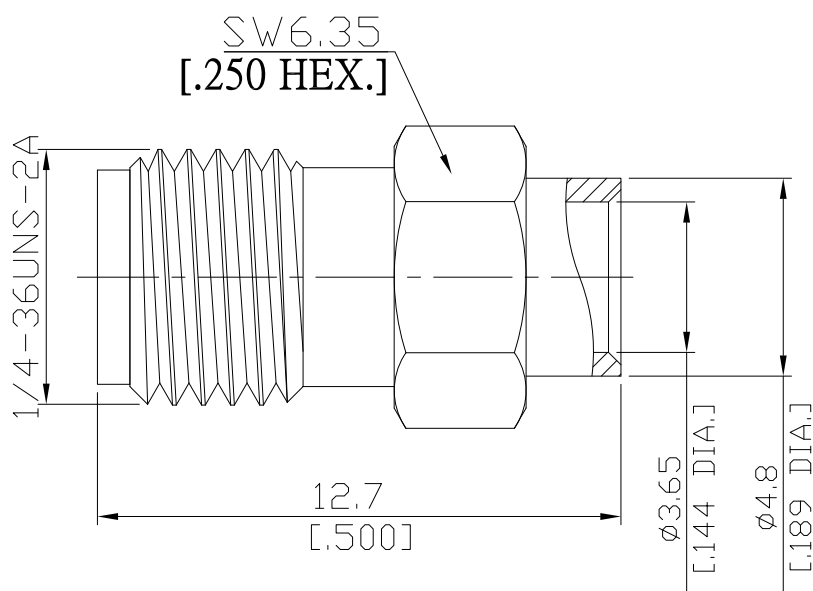


SMA Jack (Female) Connector Solder/Solder  
Attachment for RSF141, RSR141, EF402 DC-18GHz VSWR1.20

**SMA2E50-0141A / 93**



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

500

Frequency

DC to 18 GHz

VSWR (Return Loss)

 $\leq 1.20$  ( $\geq 20.83$  dB)

### Insertion Loss

$$\leq 0.03 \times \sqrt{F \text{ (GHz)}} \text{ dB}$$

## Insulation Resistance

 $\geq 5 \text{ G}\Omega$ 

Center Contact Resistance

 $\leq 3 \text{ m}\Omega$ 

### Outer Contact Resistance

 $\leq 2 \text{ m}\Omega$ 

Test Voltage

1000 V<sub>rms</sub>

Working Voltage (at sea level)

480 V rms

Power Handling (at 20 °C, sea level, VSWR 1.0)

 $\leq 200 \text{ W @ } 2 \text{ GHz}$ 

RF-leakage

$\geq 100$  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 (Non-magnetic nickel-phosphorus underplating)
Body	Brass	Nickel
Insulator	PTFE	

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## SMA2E50-0141A / 93

### 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