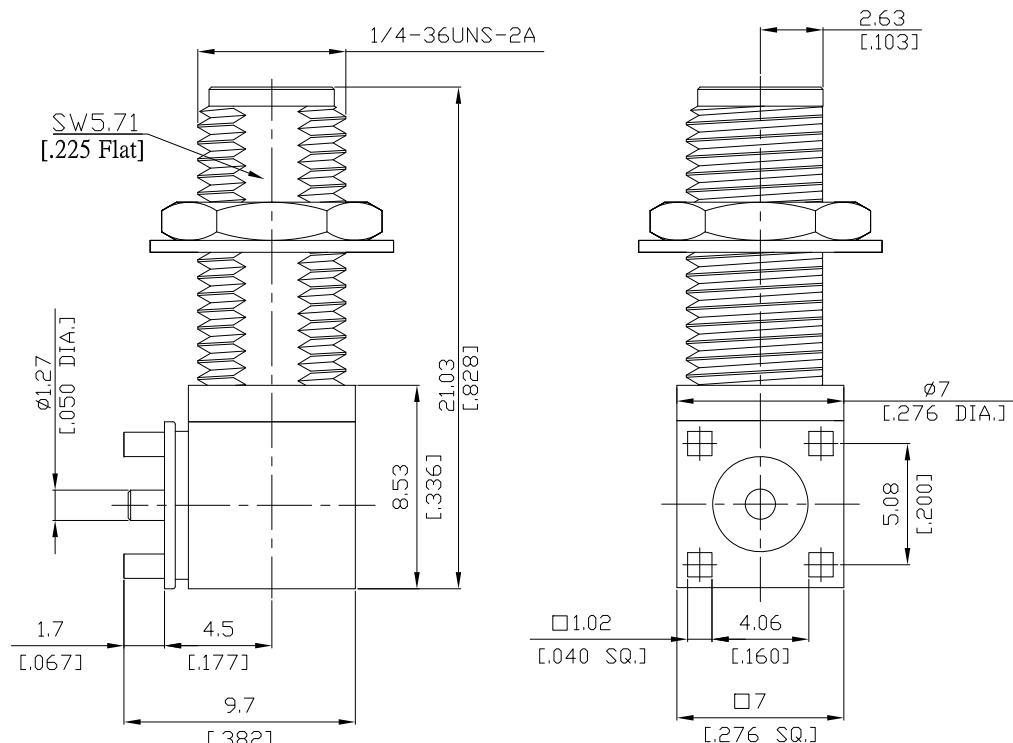


SMA Jack (female) PCB Through Holes Right Angle For Bulkhead Connector  
 DC-18GHz VSWR1.25

**SMA2IA59-2103C / 91**


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)

 ≤ 1.25 ( $\geq 19.1$  dB)

Insertion Loss

 $\leq 0.04 \times \sqrt{F}$  (GHz) 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 rms

Working Voltage (at sea level)

480 V rms

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

 $\leq 200 \text{ W} @ 2 \text{ GHz}; \leq 100 \text{ W} @ 10 \text{ GHz}$ 

RF-leakage

100 dB up to 1 GHz

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

Centre contact

Beryllium Copper

Gold plating, 3 µinch

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

Body

Brass

Gold plating, 3 µinch

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

Insulator

PTFE

SMA Jack (female) PCB Through Holes Right Angle For Bulkhead Connector  
DC-18GHz VSWR1.25**SMA2IA59-2103C / 91****Mechanical Data**

Coupling mechanisms	Screw-lock
Mating cycles	min. 500
Center contact captivation: axial	≥ 27 N
Board mounting type	Through Holes
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