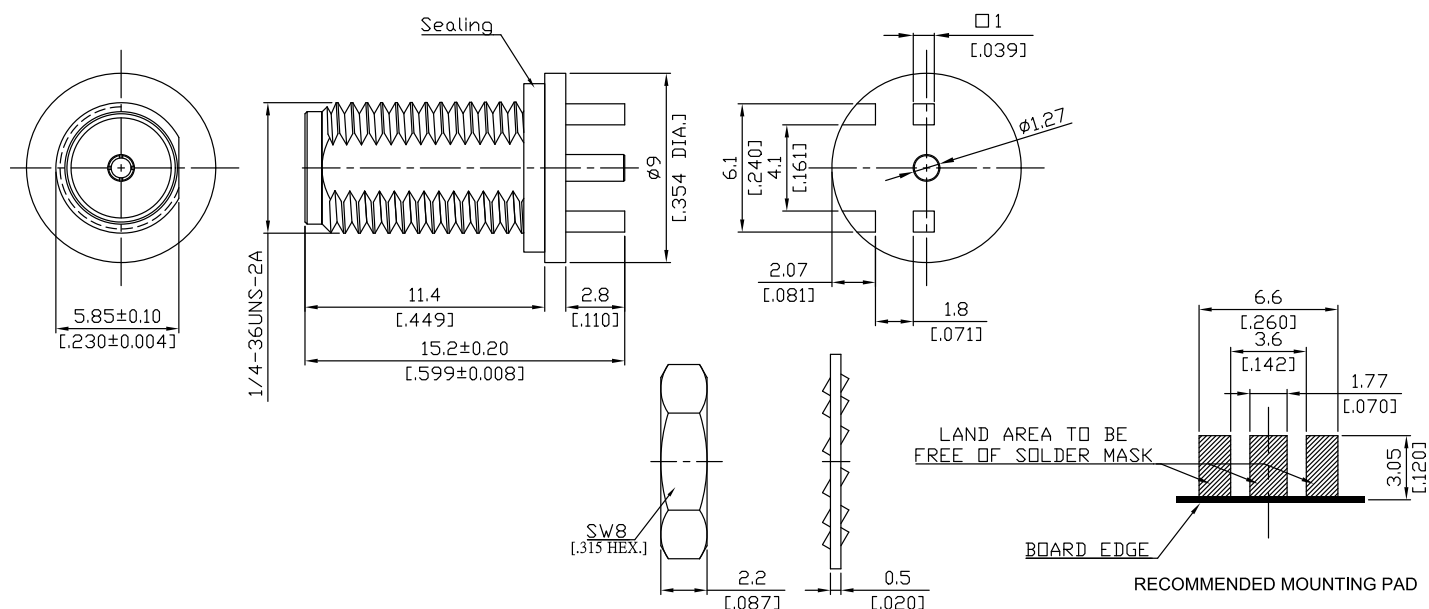


SMA Jack (female) Straight PCB End Launch Connector For Bulkhead DC-18GHz

**SMA2H5C50-1520A / 91**



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  $\Omega$

Frequency

DC to 18 GHz

VSWR (Return Loss)

$\leq 1.25$  ( $\geq 19.08$  dB)

Insertion loss

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

Insulation Resistance

$\geq 5$  G $\Omega$

Center Contact Resistance

$\leq 3.0$  m $\Omega$

Outer Contact Resistance

$\leq 2.0$  m $\Omega$

Test Voltage (at sea level)

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

$\leq 100$  W @ 10 GHz

RF Leakage

$\geq 100$  dB up to 1 GHz

-VSWR in application depends decisive on PCB layout or cavity design-

**Material And Plating**

Connector parts	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 $\mu$ inch (Non-magnetic nickel-phosphorus underplating, 100 $\mu$ inch)
Body	Brass	Gold plating, 3 $\mu$ inch (Non-magnetic nickel-phosphorus underplating, 100 $\mu$ inch)
Insulator	PTFE	
Fastening Nut	Brass	Gold plating, 3 $\mu$ inch (Non-magnetic nickel-phosphorus underplating, 100 $\mu$ inch)
Washer	Brass	Gold plating, 3 $\mu$ inch (Non-magnetic nickel-phosphorus underplating, 100 $\mu$ inch)
Gasket	Silicon Rubber	

The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Rev.:  
Date: NOV/22/2024

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## SMA Jack (female) Straight PCB End Launch Connector For Bulkhead DC-18GHz

### SMA2H5C50-1520A / 91

#### Mechanical Data

Coupling mechanisms	Screw-lock
Mating cycles	min. 500
Center contact captivation: axial	$\geq 20$ N
Board mounting type	End Launch
Coupling test torque	max. 1.7 Nm
Recommended torque	0.8 Nm to 1.1 Nm

#### Environmental Data

Temperature Range	-55°C to +125°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