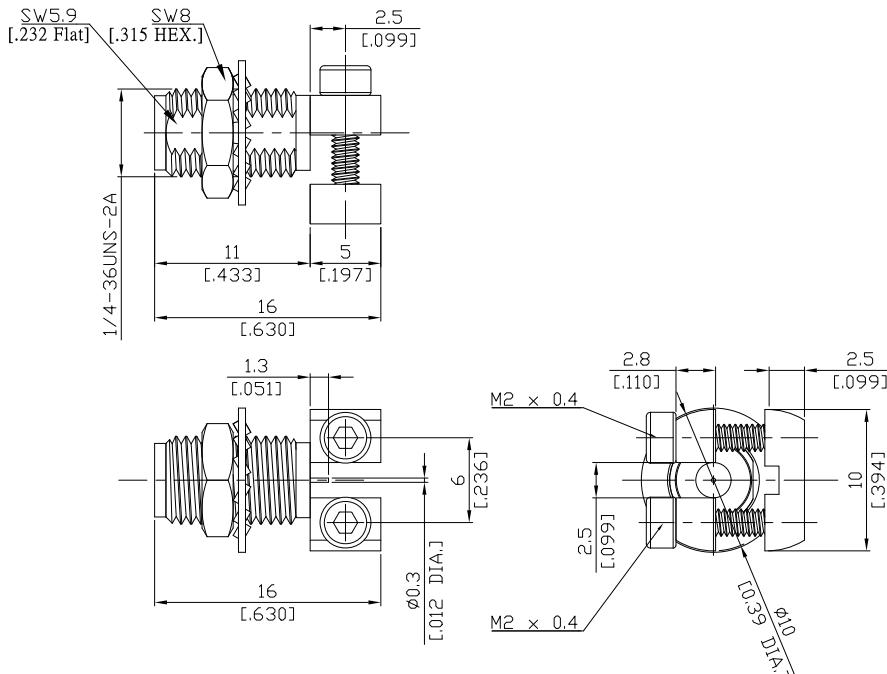


## SMA Jack(female) for Bulkhead PCB End Launch Coaxial Pin Teflon Design

## SMA2H2A50-1600A / 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 Ω

Frequency

DC to 18 GHz

VSWR (Return Loss)

≤1.20 ( $\geq 20.83$  dB) DC to 6GHz≤1.30 ( $\geq 17.69$  dB) 6 to 18GHz

Insertion loss

≤ 0.03  $\times \sqrt{f}$  (GHz) dB

Insulation resistance

≥ 5 GΩ

Center contact resistance

≤ 3 mΩ

Outer contact resistance

≤ 2 mΩ

Test voltage

1000 V rms

Working voltage

480 V rms

Power handling (at 20 °C, sea level)

≤ 200 W @ 2 GHz

≤ 100 W @ 10 GHz

RF-leakage

≥ 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 (Non-magnetic nickel-phosphorus underplating)
Body	Brass	Gold plating (Non-magnetic nickel-phosphorus underplating)
Insulator	PTFE	
Washer	Brass	Gold plating (Non-magnetic nickel-phosphorus underplating)
Fasten Nut	Brass	Gold plating (Non-magnetic nickel-phosphorus underplating)

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: DEC/13/2024

Rosnol RF/Microwave Technology Co., Ltd.

[www.rosnol.com](http://www.rosnol.com); [info@rosnol.com](mailto:info@rosnol.com)

Phone: +886-3-463-5095 / Fax: +886-3-463-5952

N-CAGE Code: SFKK0 / ISO9001 Certified

Page

1/2

SMA Jack(female) for Bulkhead PCB End Launch Coaxial Pin Teflon Design

**SMA2H2A50-1600A / 91**

**Mechanical Data**

Coupling mechanisms	Screw-lock
Mating cycles	min. 500
Center contact captivation: axial	≥ 27 N
Board mounting type	End Launch
Coupling test torque	max. 0.6 Nm
Recommended torque	0.5 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