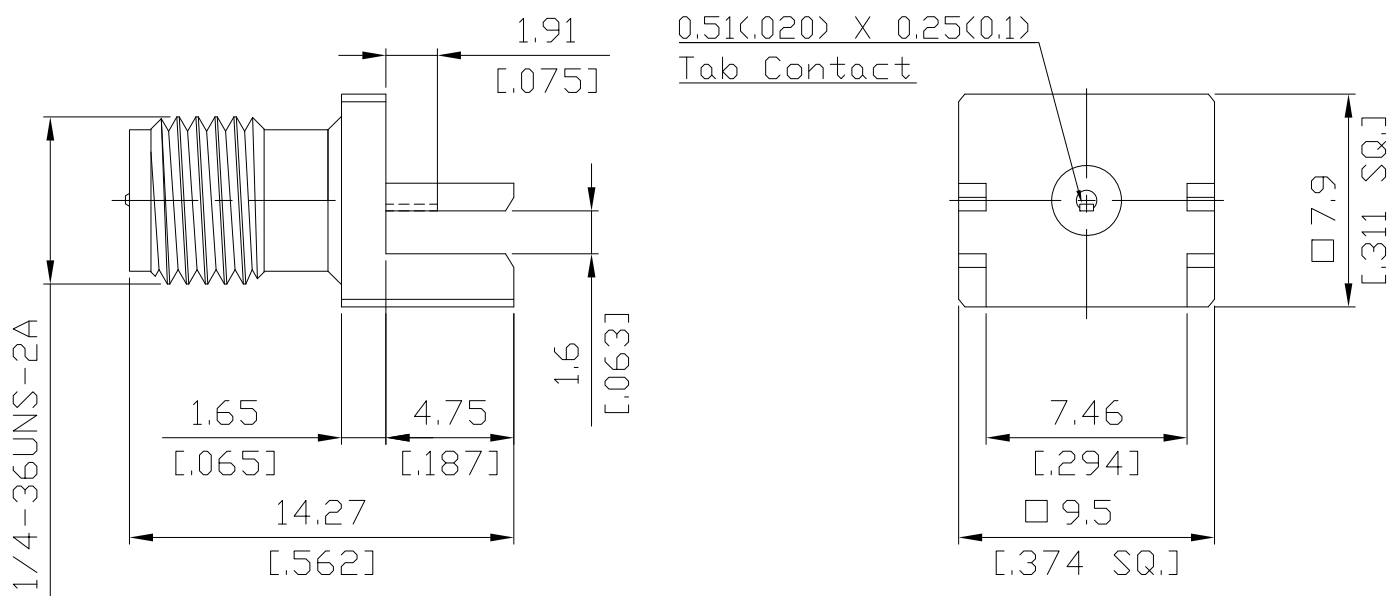


SMA Jack (female) Reverse Polarity Connector Solder Attachment  
Stub Terminal Teflon Design PCB End Launch Straight, DC- 18 GHz

**SMA7H2A50-0160A / 91**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

**Interface**

According to

Compliant with

Derived from

Rosnol SMA Reverse

FCC standard (part 15, section 15.203)

IEC 61169-15, EN 122110, MIL-PRF-39012

**Electrical Data**

Impedance

50 Ω

Frequency

DC to 18 GHz

VSWR (Return Loss)

≤ 1.20 (≥ 20.83 dB) DC to 6GHz

≤ 1.30 (≥ 17.69 dB) 6 to 18GHz

Insertion loss

≤ 0.03 x √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

≤ 200 W @ 2 GHz

≤ 100 W @ 10 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	

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: JUL/16/2021

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Page

1/2

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**Mechanical Data**

Coupling mechanisms	Screw-lock
Mating cycles	min. 500
Center contact captivation: axial	≥ 27 N
radial	≥ 1 Ncm
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	-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