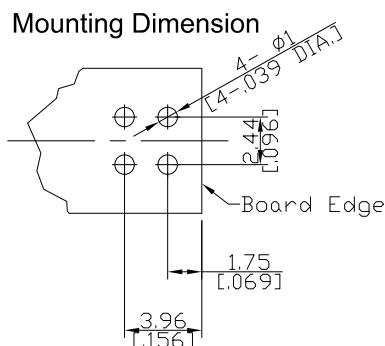
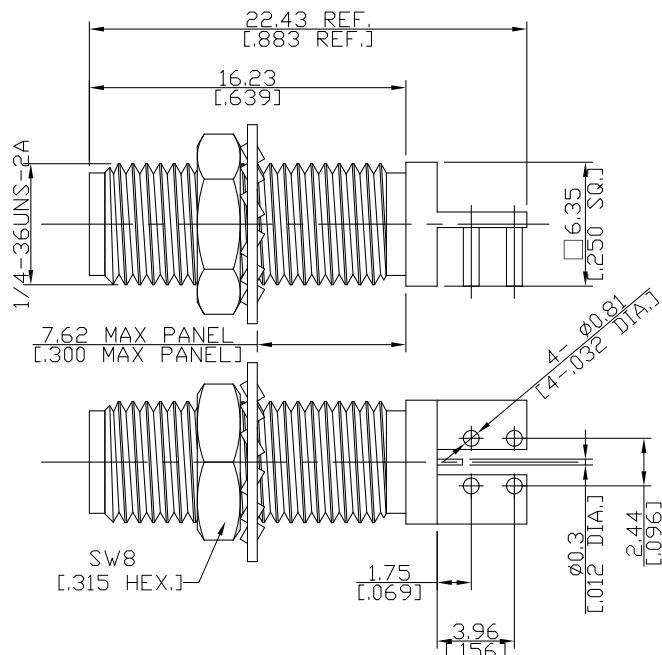


## SMA Jack (Female) Commercial Grade Connector Solder Attachment End Launch Thru Hole PCB

### SMA2MA50-2243A / 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; MIL-STD-348B/310; EN 122110

#### Electrical Data

Impedance

50 Ω

Frequency

DC to 18 GHz

VSWR (Return Loss)

≤ 1.25 ( $\geq 19.08$  dB)

Insertion Loss

≤ 0.03 x  $\sqrt{F}$  (GHz) dB

Insulation Resistance

≥ 5 GΩ

Center Contact Resistance

≤ 3.0 mΩ

Outer Contact Resistance

≤ 2.0 mΩ

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)

≤ 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	
Fastening nut	Brass	Gold plating (Non-magnetic nickel-phosphorus underplating)
Washer	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:  
MAY/09/2025

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SMA Jack (Female) Commercial Grade Connector Solder Attachment End Launch  
Thru Hole PCB

## SMA2MA50-2243A / 91

## Mechanical Data

Coupling mechanisms	Screw-lock
Mating cycles	min. 500
Center contact captivation: axial	≥ 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	-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