

CONN002-W

N Jack Sealed Panel Mount Solder Connector

The CONN002-W is an N jack panel mount connector that provides a seal when mounted to an enclosure using the provided silicone gasket. Operating from 0 GHz to 11 GHz, the CONN002-W provides superior performance by utilizing white bronze plating to reduce distortion caused by passive intermodulation (PIM). Additionally, all Linx connectors meet RoHS lead free standards and are tested to meet requirements for corrosion resistance, vibration, mechanical and thermal shock.



Features

- 0 to 11 GHz operation
- White Bronze plating
 - Low Passive Intermodulation (PIM)
 - Superior corrosion resistance
- N jack (female socket) connection
 - Gold plated phosphor bronze center contact
- Silicone gasket provided
- Interface
 - Solder pin

Table 1. Electrical Specifications

Impedance	50 Ω	
Frequency Range	0 to 11 GHz	
Voltage Rating	1500 V RMS	
Contact Resistance	Center: ≤ 1.0 m Ω Outer: ≤ 1.0 m Ω	
Selected Frequencies	2.4 GHz	6 GHz
Insertion Loss (dB max)	0.11	0.29
VSWR (max)	1.1	1.7

Ordering Information

Part Number	Description
CONN002-W	N jack (female socket) sealed panel mount connector

Available from Linx Technologies and select distributors and representatives.

Product Dimensions

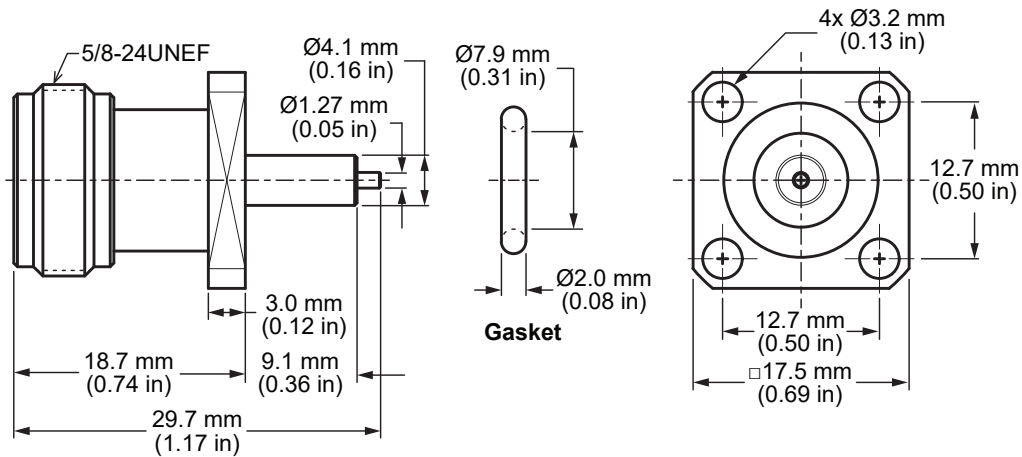


Figure 1. Product Dimensions for the CONN002-W Connector

Table 2. Connector Components

Model	CONN002-W	
Connector Part	Material	Finish
Connector Body	Brass	White Bronze
Center Contact (socket)	Phosphor Bronze	Gold
Insulator	PTFE	—
Gasket	Silicone	—

Recommended Mounting

Figure 2 shows the recommended mounting hole dimensions.

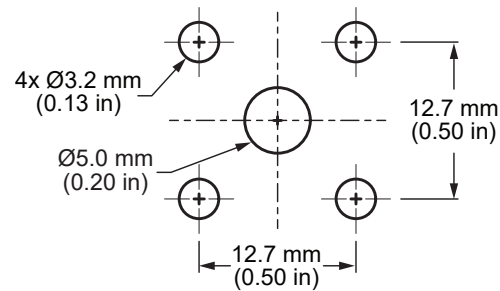


Figure 2. Recommended Mounting Dimensions for the CONN002-W Connector

Connector Performance

Table 3 shows insertion loss and VSWR values for the CONN002-W connector at commonly used frequencies.

Insertion loss is the loss of signal power (gain) resulting from the insertion of a device in a transmission line. VSWR describes how efficiently power is transmitted through the connector. A lower VSWR value indicates better performance at a given frequency.

Table 3. Insertion Loss and VSWR for the CONN002-W Connector

Band	Low-Band Cellular/ ISM/LPWA	Midband Cellular/ GNSS	WiFi/ISM	WiFi 6
Frequency Range	400 MHz to 960 MHz	1.1 GHz to 5 GHz	2.4 GHz	5 GHz to 7.125 GHz
Insertion Loss (dB max)	0.07	0.26	0.11	0.48
VSWR (max)	1.1	1.7	1.1	2.2

Table 4. Mechanical Specifications

Model	CONN002-W
Mounting Type	Panel Mount
Fastening Type	5/8"-24UNEF Threaded Coupling
Interface in Accordance with	MIL-STD-348A
Recommended Torque	0.85 N m (7.5 ft lbs)
Coupling Nut Retention	100 lbs. min.
Connector Durability	500 cycles min.
Weight	20.4 g (0.72 oz)

Table 5. Environmental Specifications

MIL-STD/Method/Test Condition	
Corrosion (Salt spray)	MIL-STD-202 Method 101 test condition B
Thermal Shock	MIL-STD-202 Method 107 test condition B
Vibration	MIL-STD-202 Method 204 test condition B
Mechanical Shock	MIL-STD-202 Method 213 test condition I
Temperature Range	-65 °C to +165 °C
Environmental Compliance	RoHS

Packaging Information

The CONN002-W connectors are individually packaged in a clear plastic bag. Connectors are packaged in cartons of 250 pcs. Distribution channels may offer alternative packaging options.

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