

## CONN003-W N Jack Panel Mount Connector

The CONN003-W is an N jack panel mount connector. Operating from 0 GHz to 11 GHz, the CONN003-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
- Interface
  - Solder cup

### Electrical Specifications

<b>Impedance</b>	50 $\Omega$	
<b>Frequency Range</b>	0 to 11 GHz	
<b>Voltage Rating</b>	2500 V RMS	
<b>Contact Resistance</b>	Center: $\leq 1.0$ m $\Omega$ Outer: $\leq 1.0$ m $\Omega$	
<b>Selected Frequencies</b>	<b>2.4 GHz</b>	<b>6 GHz</b>
<b>Insertion Loss (dB max)</b>	-0.09	-0.15
<b>VSWR (max)</b>	1.1	1.4

### Ordering Information

Part Number	Description
CONN003-W	N jack (female socket) panel mount connector

Available from Linx Technologies and select distributors and representatives.

Product Dimensions

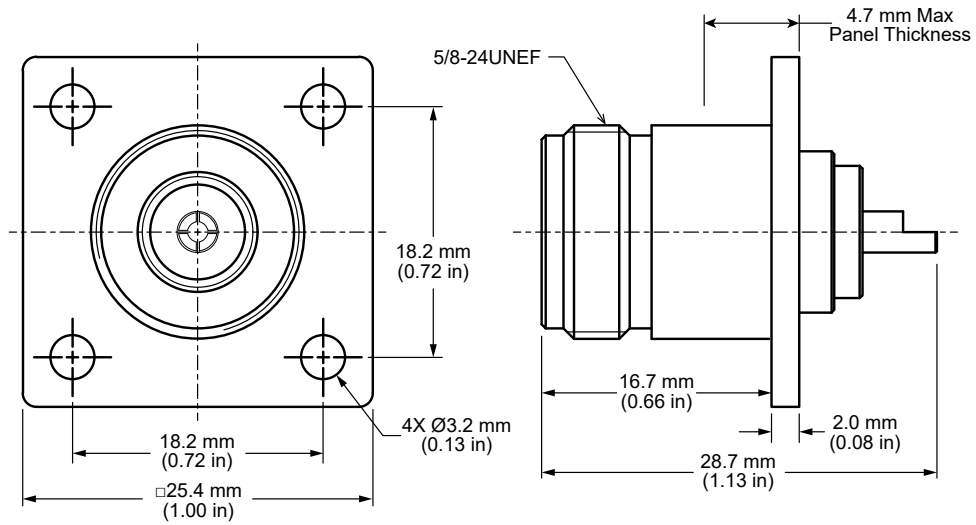


Figure 1. Product Dimensions for the CONN003-W Connector

Connector Components

Model	CONN003-W	
Connector Part	Material	Finish
Connector Body	Brass	White Bronze
Center Contact (socket)	Phosphor Bronze	Gold
Insulator	PTFE	-

Recommended Mounting

The recommended enclosure mounting dimensions are shown in Figure 2.

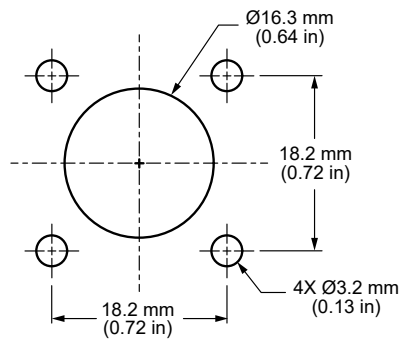


Figure 2. Recommended Enclosure Mounting Dimensions

### Connector Performance

Table 1 shows insertion loss and VSWR values for the CONN003-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 1. Insertion Loss and VSWR for the CONN003-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)	-0.06	-0.26	-0.09	-0.28
VSWR (max)	1.0	1.8	1.1	1.8

### Mechanical Specifications

Model	CONN003-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	30.5 g (1.07 oz)

### 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 CONN003-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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**Website:** <http://linxtechnologies.com>  
**Linx Offices:** 159 Ort Lane, Merlin, OR, US 97532  
**Phone:** +1 (541) 471-6256  
**E-MAIL:** [info@linxtechnologies.com](mailto:info@linxtechnologies.com)

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