## Product Specifications



## F4PNR-HC

Type N Male Right Angle for 1/2 in FSJ4-50B cable



## **CHARACTERISTICS**

## General Specifications

Interface N Male Body Style Right angle **HELIAX®** Brand Mounting Angle Right angle

### **Electrical Specifications**

Connector Impedance 50 ohm 0 - 4500 MHz Operating Frequency Band Cable Impedance 50 ohm

3rd Order IMD -120 dBm @ 910 MHz 3rd Order IMD Test Method Two +43 dBm carriers

RF Operating Voltage, maximum (vrms) 707.00 V dc Test Voltage 2000 V Outer Contact Resistance, maximum 0.30 mOhm Inner Contact Resistance, maximum 2.00 mOhm Insulation Resistance, minimum 5000 MOhm

0.6 kW @ 900 MHz Average Power

Peak Power, maximum 10.00 kW 0.05 dB Insertion Loss, typical Shielding Effectiveness -110 dB

#### Outline Drawing

## Mechanical Specifications

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## Product Specifications



#### F4PNR-HC

Outer Contact Attachment Method Crush-flare
Inner Contact Attachment Method Captivated
Outer Contact Plating Trimetal
Inner Contact Plating Gold
Attachment Durability 25 cycles
Interface Durability Method IEC 61169-

Interface Durability Method IEC 61169-16:9.5

Connector Retention Tensile Force 890 N | 200 lbf

Connector Retention Torque 5.42 N-m | 48.00 in lb

Insertion Force 66.72 N | 15.00 lbf

Insertion Force Method MIL-C-39012C-3.12, 4.6.9

Pressurizable No

Coupling Nut Proof Torque 4.52 N-m | 40.00 in lb Coupling Nut Retention Force 444.82 N | 100.00 lbf Coupling Nut Retention Force Method MIL-C-39012C-3.25, 4.6.22

#### Dimensions

Nominal Size 1/2 in

 Diameter
 26.01 mm | 1.02 in

 Length
 71.91 mm | 2.83 in

 Right Angle Length
 40.64 mm | 1.60 in

 Weight
 185.98 g | 0.41 lb

 Width
 25.40 mm | 1.00 in

## **Environmental Specifications**

Operating Temperature -55 °C to +85 °C (-67 °F to +185 °F) Storage Temperature -55 °C to +85 °C (-67 °F to +185 °F)

Immersion Depth1 mImmersion Test MatingMated

Immersion Test Method IEC 60529:2001, IP68

Water Jetting Test Mating Mated

Water Jetting Test Method IEC 60529:2001, IP66
Moisture Resistance Test Method MIL-STD-202F, Method 106F

Mechanical Shock Test Method MIL-STD-202F, Method 213B, Test Condition C

Thermal Shock Test Method MIL-STD-202F, Method 107G, Test Condition A-1, Low Temperature -55 °C

Vibration Test Method MIL-STD-202F, Method 204D, Test Condition B
Corrosion Test Method MIL-STD-1344A, Method 1001.1, Test Condition A

#### Standard Conditions

Attenuation, Ambient Temperature 20 °C | 68 °F Average Power, Ambient Temperature 40 °C | 104 °F

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# Product Specifications



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## Return Loss

Frequency Band	VSWR	Return Loss (dB)
0-1200 MHz	1.02	39.00
1200-1500 MHz	1.06	31.00
1500-2000 MHz	1.08	28.00
2000-4500 MHz	1.13	24.00

## Regulatory Compliance/Certifications

#### **Agency**

RoHS 2002/95/EC China RoHS SJ/T 11364-2006

#### Classification

Compliant by Exemption Above Maximum Concentration Value (MCV)





### \* Footnotes

Immersion Depth Immersion at specified depth for 24 hours

Insertion Loss, typical  $0.05\sqrt{\text{freq (GHz)}}$  (not applicable for elliptical waveguide)