# Product Specifications







# F1PNM-HF

Type N Male for 1/4 in FSJ1-50A cable

### General Specifications

InterfaceN MaleBody StyleStraightBrandHELIAX®Mounting AngleStraight

### **Electrical Specifications**

Connector Impedance 50 ohm

Operating Frequency Band 0 – 18000 MHz

Cable Impedance 50 ohm
RF Operating Voltage, maximum (vrms) 565.00 V
dc Test Voltage 1600 V
Outer Contact Resistance, maximum 0.25 mOhr

Outer Contact Resistance, maximum 0.25 mOhm
Inner Contact Resistance, maximum 1.00 mOhm
Insulation Resistance, minimum 5000 MOhm

Average Power 0.4 kW @ 900 MHz

Peak Power, maximum 6.40 kW Shielding Effectiveness -110 dB

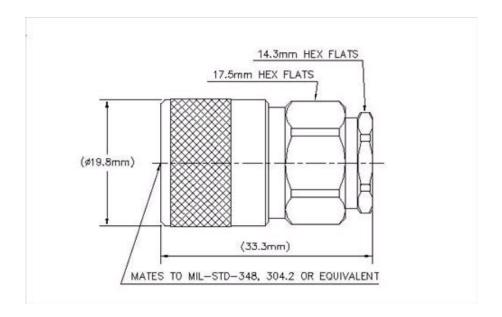
# Product Specifications



F1PNM-HF



### Outline Drawing



# Mechanical Specifications

Coupling Nut Retention Force Method

Outer Contact Attachment Method	Tab-flare
Inner Contact Attachment Method	Solder
Outer Contact Plating	Silver
Inner Contact Plating	Gold
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-4:17
Connector Retention Tensile Force	450 N   101 lbf
Connector Retention Torque	1.40 N-m   1.03 ft lb
Insertion Force	124.55 N   28.00 lbf
Insertion Force Method	IEC 61169-16:9.3.5
Pressurizable	No
Coupling Nut Proof Torque	1.70 N-m   1.25 ft lb
Coupling Nut Proof Torque Method	IEC 61169-16:9.3.11
Coupling Nut Retention Force	445.00 N   100.04 lbf

#### Dimensions

Nominal Size	1/4 in
	,
Diameter	20.24 mm   0.80 in
Height	20.24 mm   0.80 in
Length	33.32 mm   1.31 in
Weight	49.18 g   0.11 lb
Width	20.24 mm   0.80 in

IEC 61169-16:9.3.11

# Product Specifications



F1PNM-HF



#### **Environmental Specifications**

**Operating Temperature** -55 °C to +85 °C (-67 °F to +185 °F) -65 °C to +125 °C (-85 °F to +257 °F) Storage Temperature

Immersion Depth 1 m **Immersion Test Mating** Mated

Immersion Test Method IEC 60529:2001, IP68

Moisture Resistance Test Method IEC 60068-2-3 Mechanical Shock Test Method IEC 60068-2-27 Thermal Shock Test Method IEC 60068-2-14 IEC 60068-2-6 Vibration Test Method Corrosion Test Method IEC 60068-2-11

#### Standard Conditions

Attenuation, Ambient Temperature 20 °C | 68 °F Average Power, Ambient Temperature 40 °C | 104 °F Average Power, Inner Conductor Temperature 100 °C | 212 °F

#### Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
45-4100 MHz	1.05	33.00
4100-6200 MHz	1.08	28.00
6200-11000 MHz	1.17	22.00
11000-18000 MHz	1.22	20.00

# Regulatory Compliance/Certifications

Agency

Classification RoHS 2002/95/EC Compliant by Exemption

China RoHS SJ/T 11364-2006

ISO 9001:2008

Above Maximum Concentration Value (MCV)

Designed, manufactured and/or distributed under this quality management system





#### \* Footnotes

**Immersion Depth** Immersion at specified depth for 24 hours