F2PNF-C



Type N Female for 3/8 in FSJ2 and PTS2 cable

Product Classification

Brand HELIAX®

Product TypeWireless and radiating connector

General Specifications

InterfaceN FemaleBody StyleStraightMounting AngleStraight

Electrical Specifications

Connector Impedance50 ohmOperating Frequency Band0 - 6000 MHzCable Impedance50 ohm

3rd Order IMD, typical-112 dBm @ 910 MHz3rd Order IMD Test MethodTwo +43 dBm carriers

RF Operating Voltage, maximum (vrms) 707.00 V
dc Test Voltage 2300 V
Outer Contact Resistance, maximum 0.25 mOhm
Inner Contact Resistance, maximum 1.00 mOhm
Insulation Resistance, minimum 5000 MOhm

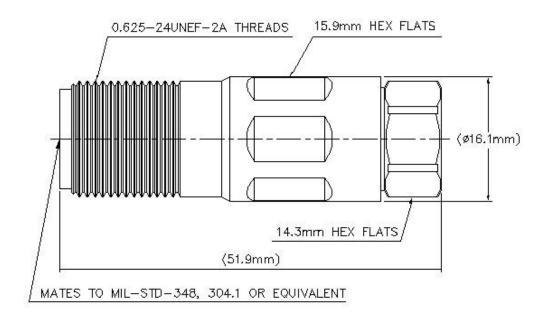
Average Power 0.7 kW @ 900 MHz

Peak Power, maximum 10.00 kW Shielding Effectiveness -110 dB

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Outline Drawing



IEC 61169-16:9.3.5

Mechanical Specifications

Outer Contact Attachment Method Self-flare **Inner Contact Attachment Method** Captivated **Outer Contact Plating** Silver **Inner Contact Plating** Gold **Interface Durability** 500 cycles Interface Durability Method IEC 61169-4:17 **Connector Retention Tensile Force** 670 N | 151 lbf **Connector Retention Torque** 2.70 N-m | 1.99 ft lb Insertion Force 124.55 N | 28.00 lbf

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 **Coupling Nut Retention Force Method** IEC 61169-16:9.3.11

Dimensions

Insertion Force Method

Nominal Size 3/8 in

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 Diameter
 16.13 mm | 0.64 in

 Length
 51.90 mm | 2.04 in

 Weight
 19.00 g | 0.04 lb

Environmental Specifications

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

Immersion Depth1 mImmersion Test MatingMated

Immersion Test Method IEC 60529:2001, IP68

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

Standard Conditions

Attenuation, Ambient Temperature $20 \,^{\circ}\text{C}$ | $68 \,^{\circ}\text{F}$ Average Power, Ambient Temperature $40 \,^{\circ}\text{C}$ | $104 \,^{\circ}\text{F}$ Average Power, Inner Conductor Temperature $100 \,^{\circ}\text{C}$ | $212 \,^{\circ}\text{F}$

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
45-3000 MHz	1.05	32.00
3000-5000 MHz	1.17	22.00
5000-10000 MHz	1.38	16.00

Regulatory Compliance/Certifications

Agency Classification

RoHS 2011/65/EU Compliant by Exemption

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

China RoHS SJ/T 11364-2014 Above Maximum Concentration Value (MCV)







* Footnotes

Immersion Depth Immersion at specified depth for 24 hours

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