FIPNE



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

Product Classification

Brand HELIAX®

Product TypeWireless and radiating connector

General Specifications

InterfaceN FemaleBody StyleStraightMounting AngleStraight

Electrical Specifications

Connector Impedance 50 ohm **Operating Frequency Band** 0 – 8000 MHz

Cable Impedance 50 ohm

3rd Order IMD, typical -112 dBm @ 910 MHz **3rd Order IMD Test Method** Two +43 dBm carriers

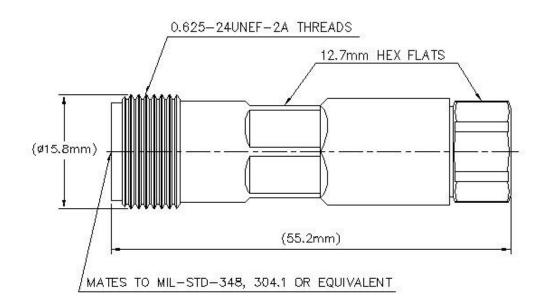
RF Operating Voltage, maximum (vrms) 565.00 V
dc Test Voltage 1600 V
Outer Contact Resistance, maximum 1.00 mOhm
Insulation Resistance, minimum 5000 MOhm

Average Power 0.4 kW @ 900 MHz

Peak Power, maximum6.40 kWShielding Effectiveness-110 dB

COMMSC PE°

Outline Drawing



IEC 61169-16:9.3.5

Mechanical Specifications

Outer Contact Attachment MethodSelf-clampingInner Contact Attachment MethodSolderOuter Contact PlatingSilver

Inner Contact PlatingGoldInterface Durability500 cyclesInterface Durability MethodIEC 61169-4:17Connector Retention Tensile Force450 N | 101 lbfInsertion Force124.55 N | 28.00 lbf

Pressurizable N

Coupling Nut Proof Torque

Coupling Nut Proof Torque Method

Coupling Nut Retention Force

Coupling Nut Retention Force Method

LEC 61169-16:9.3.11

We have a second of the second of t

Dimensions

Insertion Force Method

Nominal Size 1/4 in

Diameter 15.83 mm | 0.62 in

page 2 of 3 February 28, 2019



F1PNF

Height	15.83 mm 0.62 in
Length	55.19 mm 2.17 in
Weight	100.46 g 0.22 lb
Width	15.83 mm 0.62 in

Environmental Specifications

Operating Temperature $-55 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$ (-67 $^{\circ}\text{F}$ to $+185 \,^{\circ}\text{F}$)

Storage Temperature $-65 \,^{\circ}\text{C}$ to $+125 \,^{\circ}\text{C}$ (-85 $^{\circ}\text{F}$ to $+257 \,^{\circ}\text{F}$)

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)
45-4100 MHz	1.12	25.00
4100-6200 MHz	1.17	22.00
6200-11000 MHz	1 43	15 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

page 3 of 3 February 28, 2019

