LIPNF

Type N Female for 1/4 in LDF1-50 cable

OBSOLETE

This product was discontinued on: May 18, 2019

Replaced By:

L1TNF-PL Type N Female Positive Lock for 1/4 in LDF1-50 cable

Product Classification

Product Type Wireless and radiating connector

Product Brand HELIAX®

General Specifications

Body StyleStraightCable FamilyLDF1-50Inner Contact Attachment MethodSolderInner Contact PlatingGold

InterfaceN FemaleMounting AngleStraightOuter Contact Attachment MethodSelf-flareOuter Contact PlatingSilverPressurizableNo

Dimensions

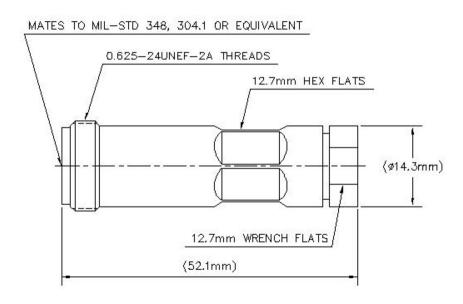
 Length
 52.07 mm | 2.05 in

 Diameter
 21.84 mm | 0.86 in

Nominal Size 1/4 in

Outline Drawing





Electrical Specifications

3rd Order IMD at Frequency-112 dBm @ 910 MHz3rd Order IMD Test MethodTwo +43 dBm carriersAverage Power at Frequency0.6 kW @ 900 MHz

Cable Impedance50 ohmConnector Impedance50 ohmdc Test Voltage2200 VInner Contact Resistance, maximum1 mOhmInsulation Resistance, minimum5000 MOhmOperating Frequency Band0 - 12000 MHzOuter Contact Resistance, maximum0.25 mOhm

Peak Power, maximum10 kWRF Operating Voltage, maximum (vrms)707 VShielding Effectiveness-110 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
45-4100 MHz	1.119	25.01
4100-6200 MHz	1.152	23.02

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6200–12000 MHz 1.33 17

Mechanical Specifications

Connector Retention Tensile Force449.27 N | 101 lbfCoupling Nut Proof Torque MethodIEC 61169-16:9.3.11Coupling Nut Retention Force445 N | 100.04 lbfCoupling Nut Retention Force MethodIEC 61169-16:9.3.11Insertion Force124.55 N | 28 lbfInsertion Force MethodIEC 61169-16:9.3.5

Interface Durability500 cyclesInterface Durability MethodIEC 61169-4:17Mechanical Shock Test MethodIEC 60068-2-27

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 $+257 \,^{\circ}\text{F}$)

Attenuation, Ambient Temperature20 °C | 68 °FAverage Power, Ambient Temperature40 °C | 104 °FAverage Power, Inner Conductor Temperature100 °C | 212 °FCorrosion Test MethodIEC 60068-2-11

Immersion Depth1 mImmersion Test MatingMated

Immersion Test Method IEC 60529:2001, IP68

Moisture Resistance Test MethodIEC 60068-2-3Thermal Shock Test MethodIEC 60068-2-14Vibration Test MethodIEC 60068-2-6

Packaging and Weights

Weight, net 80 g | 0.176 lb

* Footnotes

Immersion Depth Immersion at specified depth for 24 hours

