L2TNF-PL



Type N Female Positive Lock for 3/8 in LDF2-50 cable

Product Classification

Brand HELIAX®

Product TypeWireless and radiating connector

General Specifications

InterfaceN FemaleBody StyleStraightMounting AngleStraight

Electrical Specifications

Connector Impedance 50 ohm

Operating Frequency Band0 - 12000 MHzAverage Power at Frequency0.7 kW @ 900 MHz

Cable Impedance 50 ohm

3rd Order IMD, typical-107 dBm @ 910 MHz3rd Order IMD Test MethodTwo +43 dBm carriers

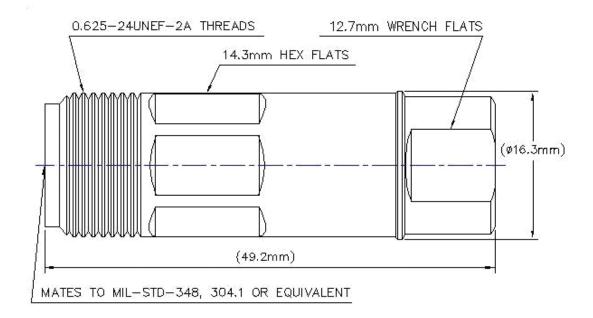
RF Operating Voltage, maximum (vrms) 707.00 V
dc Test Voltage 2500 V
Outer Contact Resistance, maximum 0.25 mOhm
Inner Contact Resistance, maximum 1.00 mOhm
Insulation Resistance, minimum 5000 MOhm

Peak Power, maximum10.00 kWInsertion Loss, typical0.05 dBShielding Effectiveness-110 dB

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Outline Drawing



IEC 61169-16:9.5

Mechanical Specifications

Interface Durability Method

 Outer Contact Attachment Method
 Ring-flare

 Inner Contact Attachment Method
 Captivated

 Outer Contact Plating
 Trimetal

 Inner Contact Plating
 Silver

Inner Contact PlatingSilverAttachment Durability25 cyclesInterface Durability500 cycles

Connector Retention Tensile Force670 N | 151 lbfConnector Retention Torque2.70 N-m | 1.99 ft lbInsertion Force28.00 N | 6.29 lbfInsertion Force MethodIEC 61169-1:15.2.4

Pressurizable No

Coupling Nut Proof Torque 1.70 N-m | 1.25 ft lb

Dimensions

Nominal Size 3/8 in

 Diameter
 16.30 mm | 0.64 in

 Height
 16.30 mm | 0.64 in

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 Length
 49.23 mm | 1.94 in

 Weight
 43.34 g | 0.10 lb

 Width
 16.30 mm | 0.64 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)
0–960 MHz	1.03	37.60
960-2200 MHz	1.06	30.30
2200–2700 MHz	1.08	28.50
2700-4000 MHz	1.09	27.00
4000-6000 MHz	1.09	27.00
6000-8000 MHz	1.16	22.50
8000-10000 MHz	1.27	18.50
10000-12000 MHz	1.29	18.00

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)







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* Footnotes

Immersion Depth Immersion at specified depth for 24 hours

Insertion Loss, typical 0.05√freq (GHz) (not applicable for elliptical waveguide)

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