

# L5PNF-RPC



Type N Female OnePiece™ for 7/8 in LDF5-50A cable

**OBSOLETE**

This product was discontinued on: December 12, 2011

**Replaced By:**

L5TNF-PS                      Type N Female Positive Stop™ for 7/8 in LDF5-50A cable

## Product Classification

Product Type	Wireless and radiating connector
Product Brand	HELIAX®   OnePiece™

## General Specifications

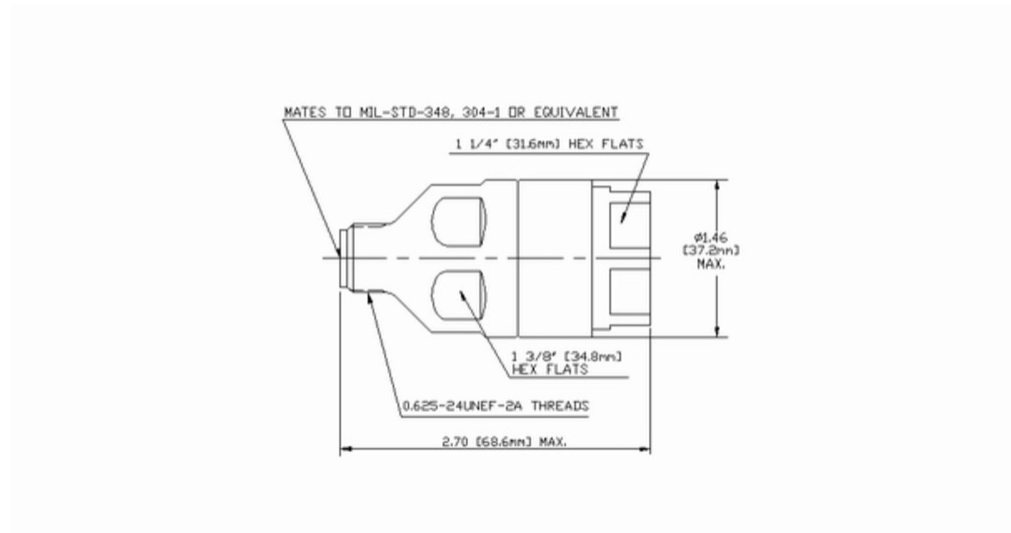
Body Style	Straight
Cable Family	LDF5-50A
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Gold
Interface	N Female
Mounting Angle	Straight
Outer Contact Attachment Method	Ball clamp
Outer Contact Plating	Trimetal
Pressurizable	No

## Dimensions

Length	69.09 mm   2.72 in
Diameter	37.08 mm   1.46 in
Nominal Size	7/8 in

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## Outline Drawing



## Electrical Specifications

3rd Order IMD at Frequency	-120 dBm @ 910 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
Insertion Loss Coefficient, typical	0.05
Average Power at Frequency	0.6 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	2000 V
Inner Contact Resistance, maximum	2 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 5000 MHz
Outer Contact Resistance, maximum	0.3 mOhm
Peak Power, maximum	10 kW
RF Operating Voltage, maximum (vrms)	707 V
Shielding Effectiveness	-130 dB

## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
40–1000 MHz	1.029	36.9
1010–2200 MHz	1.036	35.05

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2210–3000 MHz	1.046	32.96
3010–4000 MHz	1.065	30.04
4010–5000 MHz	1.173	21.98

## Mechanical Specifications

Attachment Durability	25 cycles
Connector Retention Tensile Force	889.64 N   200 lbf
Connector Retention Torque	8.14 N-m   72.001 in lb
Insertion Force	66.72 N   15 lbf
Insertion Force Method	MIL-C-39012C-3.12, 4.6.9
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5
Mechanical Shock Test Method	MIL-STD-202F, Method 213B, Test Condition C

## Environmental Specifications

Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Attenuation, Ambient Temperature	20 °C   68 °F
Average Power, Ambient Temperature	40 °C   104 °F
Corrosion Test Method	MIL-STD-1344A, Method 1001.1, Test Condition A
Immersion Depth	1 m
Immersion Test Mating	Unmated
Immersion Test Method	IEC 60529:2001, IP68
Moisture Resistance Test Method	MIL-STD-202F, Method 106F
Thermal Shock Test Method	MIL-STD-202F, Method 107G, Test Condition A-1, Low Temperature -55 °C
Vibration Test Method	IEC 60068-2-6
Water Jetting Test Mating	Unmated
Water Jetting Test Method	IEC 60529:2001, IP66

## Packaging and Weights

Weight, net	190 g   0.419 lb
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## Regulatory Compliance/Certifications

Agency	Classification
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REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant

\* Footnotes

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

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