

# L5PNM-7570



Type N Female for 7/8 in LDF5-50A cable; Type N Male for 7/8 in LDF5-75 cable

## OBSOLETE

This product was discontinued on: October 27, 2008

## Product Classification

<b>Product Type</b>	Wireless and radiating connector
<b>Product Brand</b>	HELIAX®

## General Specifications

<b>Body Style</b>	Straight
<b>Cable Family</b>	LDF5-75
<b>Inner Contact Attachment Method</b>	Solder
<b>Inner Contact Plating</b>	Silver
<b>Interface</b>	N Male
<b>Mounting Angle</b>	Straight
<b>Outer Contact Attachment Method</b>	Self-flare
<b>Outer Contact Plating</b>	Trimetal
<b>Pressurizable</b>	No

## Dimensions

<b>Length</b>	73.66 mm   2.9 in
<b>Diameter</b>	35.56 mm   1.4 in
<b>Nominal Size</b>	7/8 in

## Electrical Specifications

<b>Insertion Loss Coefficient, typical</b>	0.05
<b>Cable Impedance</b>	75 ohm

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<b>Connector Impedance</b>	70 ohm
<b>dc Test Voltage</b>	2000 V
<b>Inner Contact Resistance, maximum</b>	1.5 mOhm
<b>Operating Frequency Band</b>	0 – 2000 MHz
<b>Outer Contact Resistance, maximum</b>	1.4 mOhm
<b>Peak Power, maximum</b>	10 kW
<b>RF Operating Voltage, maximum (vrms)</b>	707 V

## VSWR/Return Loss

<b>Frequency Band</b>	<b>VSWR</b>	<b>Return Loss (dB)</b>
<b>45–1000 MHz</b>	1.083	27.99
<b>1000–2000 MHz</b>	1.222	20.01

## Mechanical Specifications

<b>Attachment Durability</b>	25 cycles
<b>Connector Retention Tensile Force</b>	889.64 N   200 lbf
<b>Connector Retention Torque</b>	8.14 N-m   72.001 in lb
<b>Coupling Nut Proof Torque</b>	4.52 N-m   39.997 in lb
<b>Coupling Nut Retention Force</b>	444.82 N   100 lbf
<b>Coupling Nut Retention Force Method</b>	MIL-C-39012C-3.25, 4.6.22
<b>Interface Durability</b>	500 cycles
<b>Interface Durability Method</b>	IEC 61169-16:9.5

## Environmental Specifications

<b>Attenuation, Ambient Temperature</b>	20 °C   68 °F
<b>Average Power, Ambient Temperature</b>	40 °C   104 °F

## Packaging and Weights

<b>Weight, net</b>	246 g   0.542 lb
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## \* Footnotes

**Insertion Loss Coefficient, typical**  $0.05\sqrt{\text{freq}}$  (GHz) (not applicable for elliptical waveguide)