

L5PNF



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

OBSOLETE

This product was discontinued on: April 23, 2009

Product Classification

Product Type	Wireless and radiating connector
Product Brand	HELIAX®

General Specifications

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

Dimensions

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

Electrical Specifications

Insertion Loss Coefficient, typical	0.05
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Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	2000 V
Inner Contact Resistance, maximum	2 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

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
45–1000 MHz	1.065	30.04
1000–2000 MHz	1.094	26.96
2000–2500 MHz	1.106	25.96
2500–5000 MHz	1.135	23.98

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
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5

Environmental Specifications

Attenuation, Ambient Temperature	20 °C 68 °F
Average Power, Ambient Temperature	40 °C 104 °F

Packaging and Weights

Weight, net	118 g 0.26 lb
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* Footnotes

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