

# Product Specifications



## L6PNF-RPC

Type N Female OnePiece™ for 1-1/4 in LDF6-50 cable



## CHARACTERISTICS

### General Specifications

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Interface	N Female
Body Style	Straight
Mounting Angle	Straight

### Electrical Specifications

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Operating Frequency Band	0 – 3300 MHz
3rd Order IMD Test Method	Two +43 dBm Carriers
Average Power	0.6 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	2000 V
Inner Contact Resistance	1.60 mOhm
Insulation Resistance, minimum	5000 MOhm
Outer Contact Resistance	1.50 mOhm
Peak Power, maximum	10.00 kW
RF Operating Voltage, maximum (vrms)	707.00 V
Shielding Effectiveness	-130 dB
3rd Order IMD	-120 dBm @ 910 MHz

### Mechanical Specifications

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Outer Contact Attachment Method	Ball clamp
Attachment Durability	25 cycles
Connector Retention Tensile Force	400 lbf   1779 N
Connector Retention Torque	96 in lb   11 N·m
Inner Contact Attachment Method	Captivated
Insertion Force	15.00 lbf   66.72 N
Insertion Force Method	MIL-C-39012C-3.12, 4.6.9
Interface Durability	500 cycles
Interface Durability Method	IEC 169-16:9.5
Pressurizable	No

### Dimensions

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Nominal Size	1-1/4 in
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# Product Specifications



Diameter, maximum	2.05 in   51.99 mm
Length	3.11 in   78.99 mm
Weight	472.00 g   1.04 lb

## Environmental Specifications

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Corrosion Test Method	MIL-STD-1344A, Method 1001.1, Test Condition A
Immersion Depth	1 m
Immersion Test Mating	Unmated
Immersion Test Method	IEC 529:1989, IP68
Mechanical Shock Test Method	MIL-STD-202F, Method 213B, Test Condition C
Moisture Resistance Test Method	MIL-STD-202F, Method 106F
Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Thermal Shock Test Method	MIL-STD-202F, Method 107G, Test Condition A-1, Low Temperature -55 °C
Vibration Test Method	MIL-STD-202F, Method 204D, Test Condition B
Water Jetting Test Mating	Unmated
Water Jetting Test Method	IEC 529:1989, IP66

## Standard Conditions

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

## Return Loss

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Frequency Band	Return Loss (dB)
40–1000 MHz	39.00
1010–2200 MHz	38.00
2210–3300 MHz	34.00

## \* Footnotes

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Immersion Depth	Immersion at specified depth for 24 hours
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