

# H5PNF-S

Type N Female with gas barrier for 7/8 in HJ5-50 air dielectric cable



## Product Classification

<b>Brand</b>	HELIAX®
<b>Product Type</b>	Air coaxial connector

## General Specifications

<b>Interface</b>	N Female
<b>Body Style</b>	Straight
<b>Gas Barrier</b>	Yes
<b>Mounting Angle</b>	Straight

## Electrical Specifications

<b>Connector Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	0 – 5200 MHz
<b>Cable Impedance</b>	50 ohm
<b>RF Operating Voltage, maximum (vrms)</b>	707.00 V
<b>dc Test Voltage</b>	2 kV
<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Average Power</b>	0.6 kW @ 900 MHz
<b>Peak Power, maximum</b>	10.00 kW
<b>Insertion Loss, typical</b>	0.05 dB

## Mechanical Specifications

<b>Outer Contact Attachment Method</b>	Tab-flare
<b>Inner Contact Attachment Method</b>	Self-tapping
<b>Outer Contact Plating</b>	Silver
<b>Inner Contact Plating</b>	Silver

## Dimensions

<b>Nominal Size</b>	7/8 in
<b>Diameter</b>	41.50 mm   1.63 in

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**Length** 73.00 mm | 2.87 in  
**Weight** 0.35 kg | 0.77 lb

## Environmental Specifications

**Operating Temperature** -40 °C to +85 °C (-40 °F to +185 °F)  
**Storage Temperature** -70 °C to +85 °C (-94 °F to +185 °F)  
**Moisture Resistance Test Method** MIL-STD-202, Method 106  
**Mechanical Shock Test Method** MIL-STD-202, Method 213, Test Condition I  
**Thermal Shock Test Method** MIL-STD-202, Method 107, Test Condition A-1, Low Temperature -55 °C  
**Vibration Test Method** MIL-STD-202, Method 204, Test Condition B  
**Corrosion Test Method** MIL-STD-202, Method 101, Test Condition B

## Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
0–1000 MHz	1.02	40.09
1–2200 MHz	1.03	36.61
2200–4000 MHz	1.08	28.3
4000–5200 MHz	1.15	23.13

## 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)



## \* Footnotes

**Insertion Loss, typical** 0.05v<sup>2</sup>/freq (GHz) (not applicable for elliptical waveguide)