

# H5PNM-S

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

## Product Classification

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

## General Specifications

<b>Body Style</b>	Straight
<b>Cable Family</b>	HJ5-50
<b>Gas Barrier</b>	Yes
<b>Inner Contact Attachment Method</b>	Spring fingers
<b>Inner Contact Plating</b>	Silver
<b>Interface</b>	N Male
<b>Mounting Angle</b>	Straight
<b>Outer Contact Attachment Method</b>	Tab-flare
<b>Outer Contact Plating</b>	Silver

## Dimensions

<b>Length</b>	83.058 mm   3.27 in
<b>Diameter</b>	41.402 mm   1.63 in
<b>Nominal Size</b>	7/8 in

## Electrical Specifications

<b>Insertion Loss, typical</b>	0.05 dB
<b>Average Power at Frequency</b>	0.6 kW @ 900 MHz
<b>Cable Impedance</b>	50 ohm
<b>Connector Impedance</b>	50 ohm

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<b>dc Test Voltage</b>	2 kV
<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Operating Frequency Band</b>	0 – 5200 MHz
<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>0–1000 MHz</b>	1.02	40.09
<b>1000–2200 MHz</b>	1.025	38.17
<b>2200–4000 MHz</b>	1.08	28.3
<b>4000–5200 MHz</b>	1.15	23.13

## Mechanical Specifications

<b>Interface Durability</b>	500 cycles
<b>Interface Durability Method</b>	MIL-C-39012, Section 4.6.12
<b>Mechanical Shock Test Method</b>	MIL-STD-202, Method 213, Test Condition I

## Environmental Specifications

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

## Packaging and Weights

<b>Weight, net</b>	0.33 kg   0.728 lb
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted

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\* Footnotes

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