

# H5PNF



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

## OBSOLETE

This product was discontinued on: April 1, 2014

### Replaced By:

H5PNF-S

Type N Female 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> | Self-tapping |
| <b>Inner Contact Plating</b>           | Gold         |
| <b>Interface</b>                       | N Female     |
| <b>Mounting Angle</b>                  | Straight     |
| <b>Outer Contact Attachment Method</b> | Tab-flare    |
| <b>Outer Contact Plating</b>           | Silver       |

## Dimensions

|                     |                     |
|---------------------|---------------------|
| <b>Length</b>       | 81.28 mm   3.2 in   |
| <b>Diameter</b>     | 34.798 mm   1.37 in |
| <b>Nominal Size</b> | 7/8 in              |

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## 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           |
| <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>45–1080 MHz</b>    | 1.02        | 41                      |
| <b>1080–1590 MHz</b>  | 1.05        | 33                      |
| <b>1590–2110 MHz</b>  | 1.08        | 29                      |
| <b>2110–4680 MHz</b>  | 1.09        | 28                      |
| <b>4680–5200 MHz</b>  | 1.16        | 23                      |

## 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 +150 °C (-40 °F to +302 °F)                               |
| <b>Storage Temperature</b>             | -70 °C to +100 °C (-94 °F to +212 °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

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**Weight, net**

0.33 kg | 0.728 lb

## Regulatory Compliance/Certifications

**Agency**

ISO 9001:2015



**Classification**

Designed, manufactured and/or distributed under this quality management system

## \* Footnotes

**Insertion Loss, typical** 0.05v̄freq (GHz) (not applicable for elliptical waveguide)