

# H7NF-T

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Tunable N Female with gas barrier for 1-5/8 in HJ7-50A air dielectric cable

**OBSOLETE**

## 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>	HJ7-50A
<b>Gas Barrier</b>	Yes
<b>Inner Contact Attachment Method</b>	Thread-in stub
<b>Inner Contact Plating</b>	Unplated
<b>Interface</b>	N Female
<b>Mounting Angle</b>	Straight
<b>Outer Contact Attachment Method</b>	Tab-flare
<b>Outer Contact Plating</b>	Unplated

## Dimensions

<b>Length</b>	289.052 mm   11.38 in
<b>Diameter</b>	61.214 mm   2.41 in
<b>Nominal Size</b>	1-5/8 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
<b>dc Test Voltage</b>	2 kV
<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Operating Frequency Band</b>	0 – 2700 MHz

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**Peak Power, maximum** 10 kW

**RF Operating Voltage, maximum (vrms)** 707 V

## Mechanical Specifications

**Interface Durability** 500 cycles

**Interface Durability Method** MIL-C-39012, Section 4.6.12

**Mechanical Shock Test Method** MIL-STD-202, Method 213, Test Condition I

## Environmental Specifications

**Operating Temperature** -40 °C to +150 °C (-40 °F to +302 °F)

**Storage Temperature** -70 °C to +100 °C (-94 °F to +212 °F)

**Corrosion Test Method** MIL-STD-202, Method 101, Test Condition B

**Moisture Resistance Test Method** MIL-STD-202, Method 106

**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

## Packaging and Weights

**Weight, net** 2.01 kg | 4.431 lb

## \* Footnotes

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