

H7NF-T

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

OBSOLETE

Replaced By:

H7PNF

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

Product Classification

Product Type	Air coaxial connector
Product Brand	HELIAX®

General Specifications

Body Style	Straight
Cable Family	HJ7-50A
Gas Barrier	Yes
Inner Contact Attachment Method	Thread-in stub
Inner Contact Plating	Unplated
Interface	N Female
Mounting Angle	Straight
Outer Contact Attachment Method	Tab-flare
Outer Contact Plating	Unplated

Dimensions

Length	289.052 mm 11.38 in
Diameter	61.214 mm 2.41 in
Nominal Size	1-5/8 in

Electrical Specifications

Insertion Loss, typical	0.05 dB
Average Power at Frequency	0.6 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	2 kV

H7NF-T

Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 2700 MHz
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
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* Footnotes

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