

H5PNF-S



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

Product Classification

Product Type Air coaxial connector

Product Brand HELIAX®

General Specifications

Body Style Straight

Cable Family HJ5-50

Gas Barrier Yes

Inner Contact Attachment Method Self-tapping

Inner Contact Plating Silver

Interface N Female

Mounting Angle Straight

Outer Contact Attachment Method Tab-flare

Outer Contact Plating Silver

Dimensions

Length 72.898 mm | 2.87 in

Diameter 41.402 mm | 1.63 in

Nominal Size 7/8 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

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dc Test Voltage	2 kV
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 5200 MHz
Peak Power, maximum	10 kW
RF Operating Voltage, maximum (vrms)	707 V

VSWR/Return Loss

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

Mechanical Specifications

Mechanical Shock Test Method	MIL-STD-202, Method 213, Test Condition I
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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)
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	0.35 kg 0.772 lb
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Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant



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* Footnotes

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