

H5PNF-S



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

OBSOLETE

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 |

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| | |
|---|--------------|
| Cable Impedance | 50 ohm |
| Connector Impedance | 50 ohm |
| 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 |
|-------------------------------------|---|

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 |
|--------------------|--------------------|

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 |

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ROHS Compliant

UK-ROHS Compliant



* Footnotes

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