

L5PNM-7570



Type N Female for 7/8 in LDF5-50A cable; Type N Male for 7/8 in LDF5-75 cable

OBSOLETE
This product was discontinued on: October 27, 2008

Product Classification

| | |
|---------------|----------------------------------|
| Product Type | Wireless and radiating connector |
| Product Brand | HELIAX® |

General Specifications

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|---------------------------------|------------|
| Body Style | Straight |
| Cable Family | LDF5-75 |
| Inner Contact Attachment Method | Solder |
| Inner Contact Plating | Silver |
| Interface | N Male |
| Mounting Angle | Straight |
| Outer Contact Attachment Method | Self-flare |
| Outer Contact Plating | Trimetal |
| Pressurizable | No |

Dimensions

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|--------------|-------------------|
| Length | 73.66 mm 2.9 in |
| Diameter | 35.56 mm 1.4 in |
| Nominal Size | 7/8 in |

Electrical Specifications

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| Insertion Loss Coefficient, typical | 0.05 |
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L5PNM-7570

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|--------------------------------------|--------------|
| Cable Impedance | 75 ohm |
| Connector Impedance | 70 ohm |
| dc Test Voltage | 2000 V |
| Inner Contact Resistance, maximum | 1.5 mOhm |
| Operating Frequency Band | 0 – 2000 MHz |
| Outer Contact Resistance, maximum | 1.4 mOhm |
| Peak Power, maximum | 10 kW |
| RF Operating Voltage, maximum (vrms) | 707 V |

VSWR/Return Loss

| Frequency Band | VSWR | Return Loss (dB) |
|----------------|-------|------------------|
| 45–1000 MHz | 1.083 | 27.99 |
| 1000–2000 MHz | 1.222 | 20.01 |

Mechanical Specifications

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|-------------------------------------|---------------------------|
| Attachment Durability | 25 cycles |
| Connector Retention Tensile Force | 889.64 N 200 lbf |
| Connector Retention Torque | 8.14 N-m 72.001 in lb |
| Coupling Nut Proof Torque | 4.52 N-m 39.997 in lb |
| Coupling Nut Retention Force | 444.82 N 100 lbf |
| Coupling Nut Retention Force Method | MIL-C-39012C-3.25, 4.6.22 |
| Interface Durability | 500 cycles |
| Interface Durability Method | IEC 61169-16:9.5 |

Environmental Specifications

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|------------------------------------|----------------|
| Attenuation, Ambient Temperature | 20 °C 68 °F |
| Average Power, Ambient Temperature | 40 °C 104 °F |

Packaging and Weights

| | |
|-------------|------------------|
| Weight, net | 246 g 0.542 lb |
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* Footnotes

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