# Product Specifications

POWERED BY ANDREW

## L1PNM-HC

**Type N Male for 1/4 in LDF1-50 cable**

**OBSOLETE**

**Replaced By**

| | |
|---|---|
| L1TNM-PL | Type N Male Positive Lock for 1/4 in LDF1-50 cable |
| L1TNM-PL-G | Type N Male Positive Lock for 1/4 in LDF1-50 cable |

## General Specifications

| | |
|---|---|
| Interface | N Male |
| Body Style | Straight |
| Brand | HELIAX® |
| Mounting Angle | Straight |

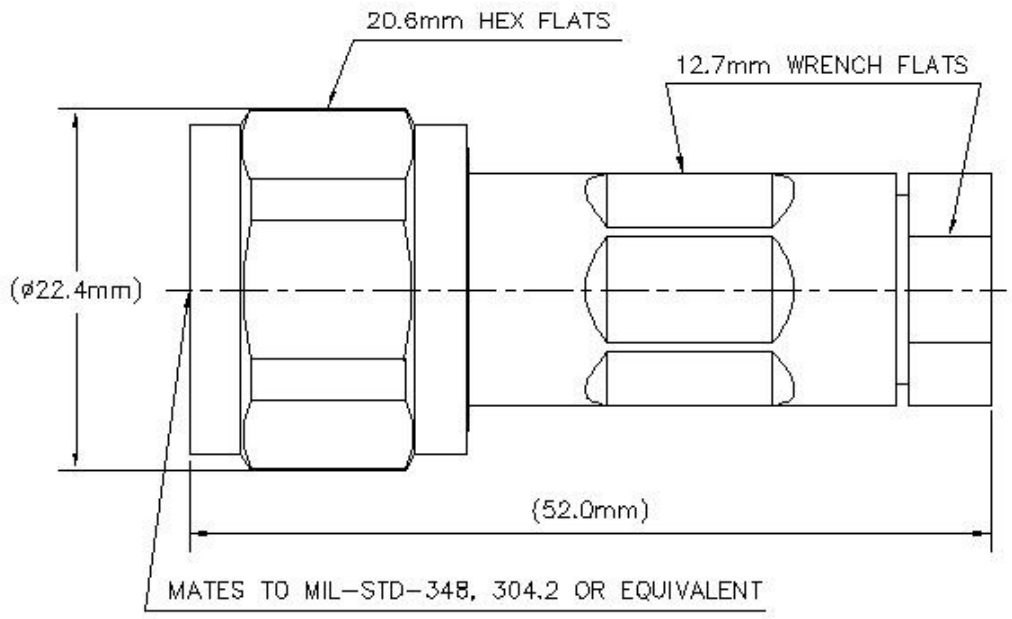
## Electrical Specifications

| | |
|---|---|
| Connector Impedance | 50 ohm |
| Operating Frequency Band | 0 – 6000 MHz |
| Cable Impedance | 50 ohm |
| 3rd Order IMD, typical | -112 dBm @ 910 MHz |
| 3rd Order IMD Test Method | Two +43 dBm carriers |
| RF Operating Voltage, maximum (vrms) | 707.00 V |
| dc Test Voltage | 2200 V |
| Outer Contact Resistance, maximum | 0.25 mOhm |
| Inner Contact Resistance, maximum | 1.00 mOhm |
| Insulation Resistance, minimum | 5000 MOhm |
| Average Power | 0.6 kW @ 900 MHz |
| Peak Power, maximum | 10.00 kW |
| Shielding Effectiveness | -110 dB |

# Product Specifications

L1PNM-HC

## Outline Drawing




## Mechanical Specifications

| | |
|---|---|
| Outer Contact Attachment Method | Self-flare |
| Inner Contact Attachment Method | Captivated |
| Outer Contact Plating | Silver |
| Inner Contact Plating | Gold |
| Interface Durability | 500 cycles |
| Interface Durability Method | IEC 61169-4:17 |
| Connector Retention Tensile Force | 450 N \| 101 lbf |
| Connector Retention Torque | 1.40 N-m \| 1.03 ft lb |
| Insertion Force | 124.55 N \| 28.00 lbf |
| Insertion Force Method | IEC 61169-16:9.3.5 |
| Pressurizable | No |
| Coupling Nut Proof Torque | 1.70 N-m \| 1.25 ft lb |
| Coupling Nut Proof Torque Method | IEC 61169-16:9.3.11 |
| Coupling Nut Retention Force | 445.00 N \| 100.04 lbf |
| Coupling Nut Retention Force Method | IEC 61169-16:9.3.11 |

## Dimensions

| | |
|---|---|
| Nominal Size | 1/4 in |
| Diameter | 22.36 mm \| 0.88 in |
| Length | 51.95 mm \| 2.05 in |
| Weight | 55.00 g \| 0.12 lb |

# Product Specifications

L1PNM-HC

## Environmental Specifications

| | |
|---|---|
| Operating Temperature | -55 °C to +85 °C (-67 °F to +185 °F) |
| Storage Temperature | -65 °C to +125 °C (-85 °F to +257 °F) |
| Immersion Depth | 1 m |
| Immersion Test Mating | Mated |
| Immersion Test Method | IEC 60529:2001, IP68 |
| Moisture Resistance Test Method | IEC 60068-2-3 |
| Mechanical Shock Test Method | IEC 60068-2-27 |
| Thermal Shock Test Method | IEC 60068-2-14 |
| Vibration Test Method | IEC 60068-2-6 |
| Corrosion Test Method | IEC 60068-2-11 |

## Standard Conditions

| | |
|---|---|
| Attenuation, Ambient Temperature | 20 °C \| 68 °F |
| Average Power, Ambient Temperature | 40 °C \| 104 °F |
| Average Power, Inner Conductor Temperature | 100 °C \| 212 °F |

## Return Loss/VSWR

| Frequency Band | VSWR | Return Loss (dB) |
|---|---|---|
| 45–2000 MHz | 1.04 | 34.00 |
| 2000–4000 MHz | 1.11 | 26.00 |

## Regulatory Compliance/Certifications

| Agency | Classification |
|---|---|
| RoHS 2011/65/EU | Compliant by Exemption |
| China RoHS SJ/T 11364-2006 | Above Maximum Concentration Value (MCV) |

## * Footnotes

| | |
|---|---|
| Immersion Depth | Immersion at specified depth for 24 hours |