

# F1PNMV2-H



Type N Male for 1/4 in FSJ1-50A cable

## OBSOLETE

This product was discontinued on: March 21, 2013

### Replaced By:

|            |  |
|------------|--|
| F1PNM-HC   | Type N Male for 1/4 in FSJ1-50A cable        |
| F1TNM-HC   | Type N Male for 1/4 in FSJ1-50A cable        |
| F1TNM-HC-G | Type N Male for 1/4 in FSJ1-50A cable        |
| F1TQM-HC   | QMA Male connector for 1/4 in FSJ1-50A cable |

## Product Classification

|                      |                                  |
|----------------------|----------------------------------|
| <b>Product Type</b>  | Wireless and radiating connector |
| <b>Product Brand</b> | HELIAX®                          |

## General Specifications

|  |               |
|--|---------------|
| <b>Body Style</b>                      | Straight      |
| <b>Cable Family</b>                    | FSJ1-50A      |
| <b>Inner Contact Attachment Method</b> | Solder        |
| <b>Inner Contact Plating</b>           | Gold          |
| <b>Interface</b>                       | N Male        |
| <b>Mounting Angle</b>                  | Straight      |
| <b>Outer Contact Attachment Method</b> | Self-clamping |
| <b>Outer Contact Plating</b>           | Silver        |
| <b>Pressurizable</b>                   | No            |

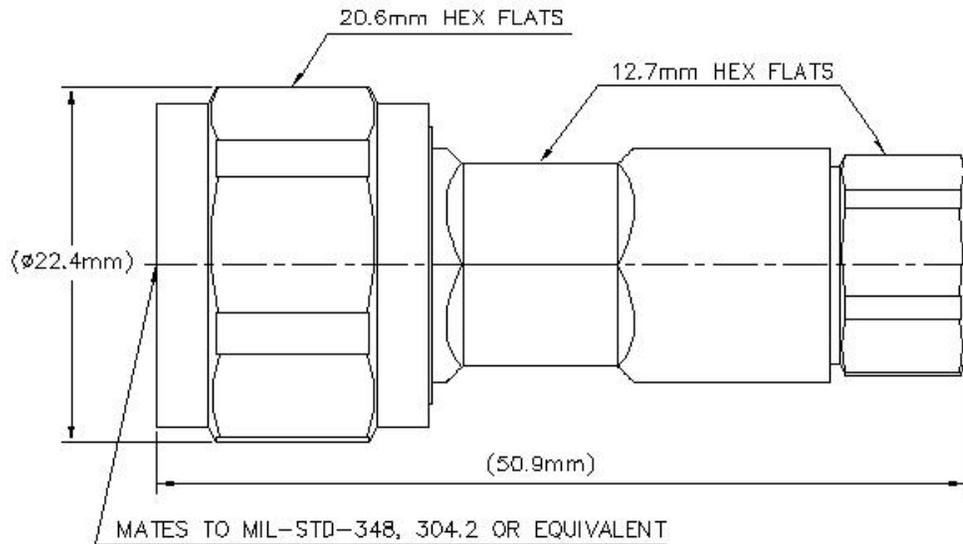
## Dimensions

|               |                    |
|---------------|--------------------|
| <b>Height</b> | 20.57 mm   0.81 in |
| <b>Width</b>  | 22.35 mm   0.88 in |
| <b>Length</b> | 50.8 mm   2 in     |

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|                     |                    |
|---------------------|--------------------|
| <b>Diameter</b>     | 22.35 mm   0.88 in |
| <b>Nominal Size</b> | 1/4 in             |

## Outline Drawing



## Electrical Specifications

|   |                      |
|---|----------------------|
| <b>3rd Order IMD at Frequency</b>           | -112 dBm @ 910 MHz   |
| <b>3rd Order IMD Test Method</b>            | Two +43 dBm carriers |
| <b>Average Power at Frequency</b>           | 0.4 kW @ 900 MHz     |
| <b>Cable Impedance</b>                      | 50 ohm               |
| <b>Connector Impedance</b>                  | 50 ohm               |
| <b>dc Test Voltage</b>                      | 1600 V               |
| <b>Inner Contact Resistance, maximum</b>    | 1 mOhm               |
| <b>Insulation Resistance, minimum</b>       | 5000 MOhm            |
| <b>Operating Frequency Band</b>             | 0 – 6000 MHz         |
| <b>Outer Contact Resistance, maximum</b>    | 0.25 mOhm            |
| <b>Peak Power, maximum</b>                  | 6.4 kW               |
| <b>RF Operating Voltage, maximum (vrms)</b> | 565 V                |
| <b>Shielding Effectiveness</b>              | -110 dB              |

## Mechanical Specifications

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|  |                        |
|--|------------------------|
| <b>Connector Retention Tensile Force</b>   | 449.27 N   101 lbf     |
| <b>Coupling Nut Proof Torque</b>           | 1.7 N-m   15.046 in lb |
| <b>Coupling Nut Proof Torque Method</b>    | IEC 61169-16:9.3.11    |
| <b>Coupling Nut Retention Force</b>        | 445 N   100.04 lbf     |
| <b>Coupling Nut Retention Force Method</b> | IEC 61169-16:9.3.11    |
| <b>Insertion Force</b>                     | 124.55 N   28 lbf      |
| <b>Insertion Force Method</b>              | IEC 61169-16:9.3.5     |
| <b>Interface Durability</b>                | 500 cycles             |
| <b>Interface Durability Method</b>         | IEC 61169-4:17         |
| <b>Mechanical Shock Test Method</b>        | IEC 60068-2-27         |

## Environmental Specifications

|   |                                       |
|---|---------------------------------------|
| <b>Operating Temperature</b>                      | -55 °C to +85 °C (-67 °F to +185 °F)  |
| <b>Storage Temperature</b>                        | -65 °C to +125 °C (-85 °F to +257 °F) |
| <b>Attenuation, Ambient Temperature</b>           | 20 °C   68 °F                         |
| <b>Average Power, Ambient Temperature</b>         | 40 °C   104 °F                        |
| <b>Average Power, Inner Conductor Temperature</b> | 100 °C   212 °F                       |
| <b>Corrosion Test Method</b>                      | IEC 60068-2-11                        |
| <b>Immersion Depth</b>                            | 1 m                                   |
| <b>Immersion Test Mating</b>                      | Mated                                 |
| <b>Immersion Test Method</b>                      | IEC 60529:2001, IP68                  |
| <b>Moisture Resistance Test Method</b>            | IEC 60068-2-3                         |
| <b>Thermal Shock Test Method</b>                  | IEC 60068-2-14                        |
| <b>Vibration Test Method</b>                      | IEC 60068-2-6                         |

## Packaging and Weights

|                    |                    |
|--------------------|--------------------|
| <b>Weight, net</b> | 104.29 g   0.23 lb |
|--------------------|--------------------|

### \* Footnotes

|                        |   |
|------------------------|---|
| <b>Immersion Depth</b> | Immersion at specified depth for 24 hours |
|------------------------|---|