

F1PNM-H

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



OBSOLETE

This product was discontinued on: March 21, 2013

Replaced By:

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

Product Type	Wireless and radiating connector
Product Brand	HELIAX®

General Specifications

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

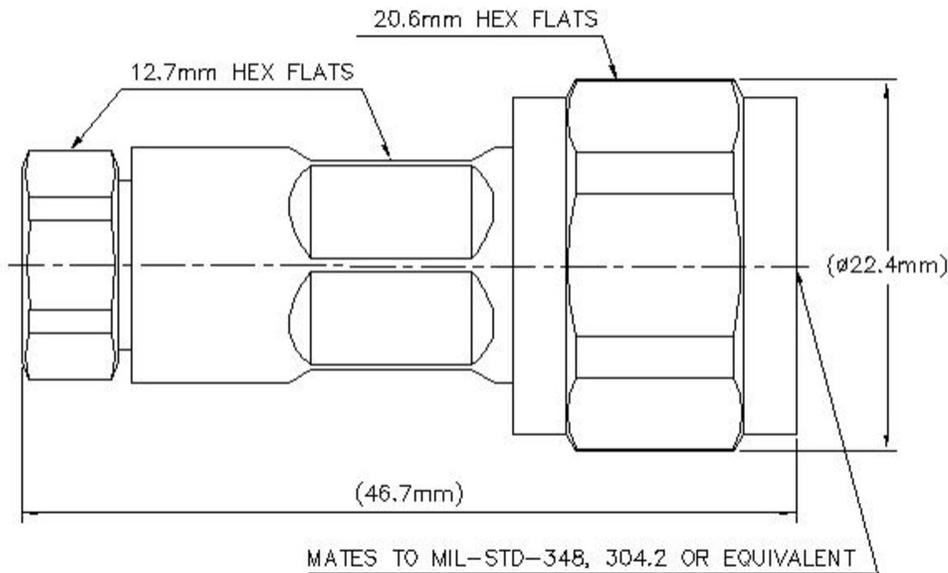
Dimensions

Height	20.57 mm 0.81 in
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Width	20.57 mm 0.81 in
Length	46.74 mm 1.84 in
Diameter	20.57 mm 0.81 in
Nominal Size	1/4 in

Outline Drawing



Electrical Specifications

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

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Shielding Effectiveness -110 dB

Mechanical Specifications

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

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)
Attenuation, Ambient Temperature 20 °C | 68 °F
Average Power, Ambient Temperature 40 °C | 104 °F
Average Power, Inner Conductor Temperature 100 °C | 212 °F
Corrosion Test Method IEC 60068-2-11
Moisture Resistance Test Method IEC 60068-2-3
Thermal Shock Test Method IEC 60068-2-14
Vibration Test Method IEC 60068-2-6

Packaging and Weights

Weight, net 58.38 g | 0.129 lb