Product Specifications



POWERED BY





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

General Specifications

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

Electrical Specifications

Connector Impedance 50 ohm
Operating Frequency Band 0 - 18000 MHz
Cable Impedance 50 ohm

3rd Order IMD, typical -116 dBm @ 910 MHz 3rd Order IMD Test Method Two +43 dBm carriers

RF Operating Voltage, maximum (vrms) 565.00 V
dc Test Voltage 1600 V
Outer Contact Resistance, maximum 0.25 mOhm
Inner Contact Resistance, maximum 1.00 mOhm
Insulation Resistance, minimum 5000 MOhm
Average Power 0.4 kW @ 900 MHz

Peak Power, maximum 6.40 kW Shielding Effectiveness -110 dB

Product Specifications

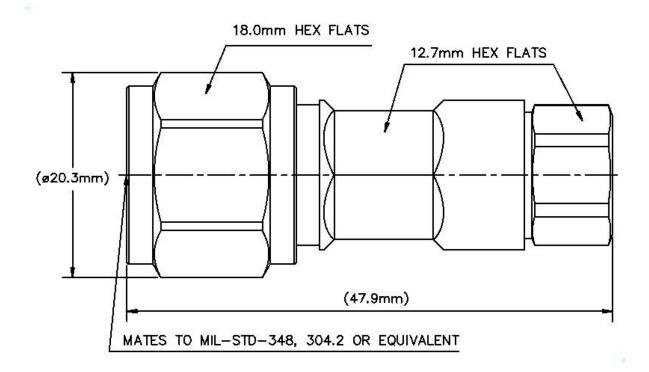


F1TNM-HC





Outline Drawing



Mechanical Specifications

Outer Contact Attachment Method Inner Contact Attachment Method Outer Contact Plating

Inner Contact Plating
Interface Durability
Interface Durability Method
Connector Retention Tensile Force
Connector Retention Torque

Insertion Force Method

Pressurizable

Coupling Nut Proof Torque
Coupling Nut Proof Torque Method
Coupling Nut Retention Force
Coupling Nut Retention Force Method

Self-clamping Captivated

Trimetal Silver 500 cycles IEC 61169-4:17

450 N | 101 lbf 1.40 N-m | 1.03 ft lb 124.55 N | 28.00 lbf IEC 61169-16:9.3.5

No

1.70 N-m | 1.25 ft lb IEC 61169-16:9.3.11 450.00 N | 101.16 lbf IEC 61169-16:9.3.11

Dimensions

Nominal Size 1/4 in

Diameter 20.25 mm | 0.80 in

Product Specifications



F1TNM-HC

47.94 mm | 1.89 in Length Weight 43.83 g | 0.10 lb



Environmental Specifications

Operating Temperature -55 °C to +85 °C (-67 °F to +185 °F) -65 °C to +125 °C (-85 °F to +257 °F) Storage Temperature

1 m Immersion Depth **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 IEC 60068-2-14 Thermal Shock Test Method 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)	
450-2200 MHz	1.07	30.00	
2200-3000 MHz	1.07	30.00	
3000-6000 MHz	1.18	21.66	
6000-9000 MHz	1.38	15.94	
9000-15000 MHz	1.43	15.04	

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU China RoHS SJ/T 11364-2006

ISO 9001:2008

Compliant by Exemption

Above Maximum Concentration Value (MCV)

Designed, manufactured and/or distributed under this quality management system





* Footnotes

Immersion Depth

Immersion at specified depth for 24 hours