# Product Specifications



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## **General Specifications**

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

### **Electrical Specifications**

Connector Impedance 50 ohm

Operating Frequency Band 0 – 12000 MHz

Cable Impedance 50 ohm

3rd Order IMD, typical -107 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
Insertion Loss, typical 0.05 dB
Shielding Effectiveness -110 dB

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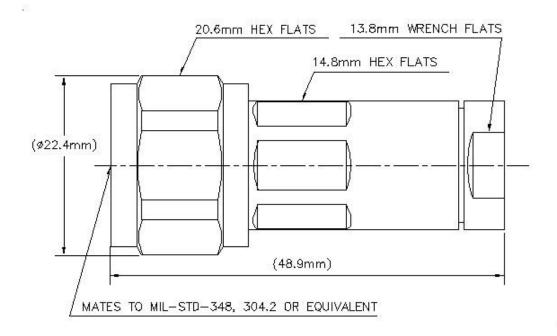


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### **Outline Drawing**



## **Mechanical Specifications**

Outer Contact Attachment Method Self-flare Inner Contact Attachment Method Captivated Trimetal **Outer Contact Plating** Silver Inner Contact Plating Attachment Durability 25 cycles Interface Durability 500 cycles Interface Durability Method IEC 61169-16:9.5 Connector Retention Tensile Force 450 N | 101 lbf

Connector Retention Torque 1.40 N-m | 1.03 ft lb Insertion Force 28.00 N | 6.29 lbf Insertion Force Method IEC 61169-1:15.2.4

Pressurizable

Coupling Nut Proof Torque 1.70 N-m | 1.25 ft lb Coupling Nut Retention Force 450.00 N | 101.16 lbf Coupling Nut Retention Force Method MIL-C-39012C-3.25, 4.6.22

### **Dimensions**

Nominal Size	1/4 in
Diameter	22.35 mm   0.88 in
Height	22.35 mm   0.88 in
Length	48.88 mm   1.92 in

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61.77 g | 0.14 lb Weight Width 22.35 mm | 0.88 in

### **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)
0-960 MHz	1.02	38.40
960-2200 MHz	1.03	35.30
2200-2700 MHz	1.03	35.30
2700-4000 MHz	1.09	27.00
4000-6000 MHz	1.21	20.50
6000-8000 MHz	1.33	17.00
8000-10000 MHz	1.33	17.00
10000-12000 MHz	1.39	15.70

## **Regulatory Compliance/Certifications**

Agency

Classification

RoHS 2011/65/EU

Compliant by Exemption

China RoHS SJ/T 11364-2006

Above Maximum Concentration Value (MCV)

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



ISO 9001:2008



### \* Footnotes

**Immersion Depth** Immersion at specified depth for 24 hours

0.05v freq (GHz) (not applicable for elliptical waveguide) Insertion Loss, typical