SMA Male for 1/4 in FSJ1-50A cable

0.4 kW @ 900 MHz



Product Classification

Brand HELIAX®

Product Type Wireless and radiating connector

General Specifications

InterfaceSMA MaleBody StyleStraightMounting AngleStraight

Electrical Specifications

Average Power

Connector Impedance 50 ohm 0 - 6000 MHz **Operating Frequency Band** Cable Impedance 50 ohm RF Operating Voltage, maximum (vrms) 500.00 V dc Test Voltage 1000 V 2.50 mOhm **Outer Contact Resistance, maximum** Inner Contact Resistance, maximum 3.00 mOhm Insulation Resistance, minimum 5000 MOhm

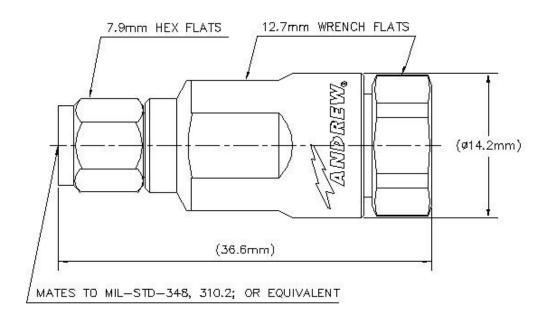
Peak Power, maximum5.00 kWShielding Effectiveness-110 dB

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Outline Drawing



Mechanical Specifications

Outer Contact Attachment Method
Inner Contact Attachment Method
Outer Contact Plating
Inner Contact Plating
Interface Durability
Interface Durability Method
Captivated
Trimetal
Gold
Interface Durability
Interface Durability Method
IEC 61169-4:17
Connector Retention Tensile Force
Insertion Force
97.86 N | 22.00

Insertion Force97.86 N | 22.00 lbfInsertion Force MethodIEC 61169-16:9.3.5

Pressurizable No

Coupling Nut Proof Torque1.70 N-m | 1.25 ft lbCoupling Nut Proof Torque MethodIEC 61169-16:9.3.11Coupling Nut Retention Force267.00 N | 60.02 lbfCoupling Nut Retention Force MethodIEC 61169-15:9.3.11

Dimensions

Nominal Size 1/4 in

Diameter 14.22 mm | 0.56 in

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F1TSM-C

 Height
 14.22 mm | 0.56 in

 Length
 36.57 mm | 1.44 in

 Weight
 24.99 g | 0.06 lb

 Width
 14.22 mm | 0.56 in

Environmental Specifications

Operating Temperature $-55 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$ (-67 $^{\circ}\text{F}$ to $+185 \,^{\circ}\text{F}$)

Storage Temperature $-65 \,^{\circ}\text{C}$ to $+125 \,^{\circ}\text{C}$ (-85 $^{\circ}\text{F}$ to $+257 \,^{\circ}\text{F}$)

Moisture Resistance Test MethodIEC 60068-2-3Mechanical Shock Test MethodIEC 60068-2-27Thermal Shock Test MethodIEC 60068-2-14Vibration Test MethodIEC 60068-2-6Corrosion Test MethodIEC 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)
0-3000 MHz	1.17	22.00
3000-6000 MHz	1.22	20.00
6000-9000 MHz	1.29	18.00

Regulatory Compliance/Certifications

Agency Classification

RoHS 2011/65/EU Compliant by Exemption

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

China RoHS SJ/T 11364-2014 Above Maximum Concentration Value (MCV)









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