F1TSM-C



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

Product Classification

Product Type Wireless and radiating connector

Product Brand HELIAX®

General Specifications

Body StyleStraightCable FamilyFSJ1-50AInner Contact Attachment MethodCaptivated

Inner Contact Plating Gold

InterfaceSMA MaleMounting AngleStraight

Outer Contact Attachment Method Self-clamping

Outer Contact Plating Trimetal

Pressurizable No

Dimensions

 Height
 14.22 mm
 0.56 in

 Width
 14.22 mm
 0.56 in

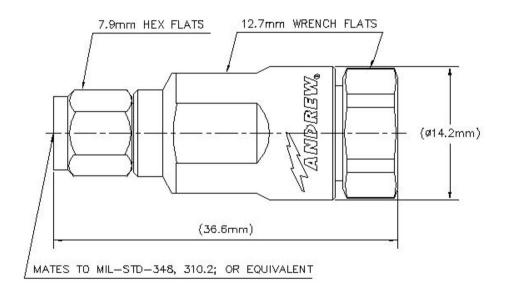
 Length
 36.58 mm
 1.44 in

 Diameter
 14.22 mm
 0.56 in

Nominal Size 1/4 in

Outline Drawing





Electrical Specifications

Average Power at Frequency	0.4 kW @ 900 MHz
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Cable Impedance 50 ohm **Connector Impedance** 50 ohm dc Test Voltage 1000 V Inner Contact Resistance, maximum 3 mOhm Insulation Resistance, minimum 5000 MOhm **Operating Frequency Band** 0 – 6000 MHz **Outer Contact Resistance, maximum** 2.5 mOhm Peak Power, maximum 5 kW RF Operating Voltage, maximum (vrms) 500 V -110 dB **Shielding Effectiveness**

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VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.18	22
3000–6000 MHz	1.23	20
6000–9000 MHz	1.29	18

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** 266.98 N | 60.02 lbf IEC 61169-15:9.3.11 **Coupling Nut Retention Force Method Insertion Force** 97.86 N | 22 lbf **Insertion Force Method** IEC 61169-16:9.3.5 **Interface Durability** 500 cycles IEC 61169-4:17 **Interface Durability Method**

Environmental Specifications

Mechanical Shock Test Method

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

IEC 60068-2-27

Packaging and Weights

Weight, net 24.99 g | 0.055 lb

Regulatory Compliance/Certifications



F1TSM-C

Agency

Classification

Compliant

CHINA-ROHS

Below maximum concentration value

ISO 9001:2015

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

REACH-SVHC

Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS









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