Product Specifications







F1TSM-HF

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

General Specifications

InterfaceSMA MaleBody StyleStraightBrandHELIAX®Mounting AngleStraight

Electrical Specifications

Connector Impedance 50 ohm

Operating Frequency Band 0 – 18000 MHz

Cable Impedance 50 ohm

RF Operating Voltage, maximum (vrms) 500.00 V

dc Test Voltage 1000 V

Outer Contact Resistance, maximum 2.50 mOhm

Inner Contact Resistance, maximum 3.00 mOhm

Insulation Resistance, minimum 5000 MOhm

Average Power 0.4 kW @ 900 MHz

Peak Power, maximum 5.00 kW Shielding Effectiveness -110 dB

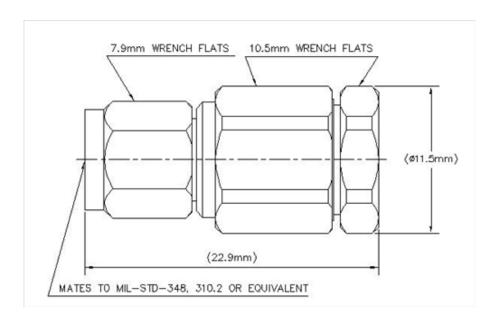
Product Specifications



F1TSM-HF



Outline Drawing



Mechanical Specifications

Coupling Nut Proof Torque Method

Coupling Nut Retention Force Method

Coupling Nut Retention Force

Outer Contact Attachment Method Tab-flare Inner Contact Attachment Method Solder Trimetal Outer Contact Plating Inner Contact Plating Gold 500 cycles Interface Durability Interface Durability Method IEC 61169-4:17 Connector Retention Tensile Force 450 N | 101 lbf Connector Retention Torque 1.40 N-m | 1.03 ft lb Insertion Force 97.86 N | 22.00 lbf Insertion Force Method IEC 61169-16:9.3.5 Pressurizable Coupling Nut Proof Torque 1.70 N-m | 1.25 ft lb

Dimensions

Nominal Size	1/4 in	
Diameter	11.50 mm	0.45 in
Height	11.50 mm	0.45 in
Length	22.89 mm	0.90 in
Weight	15.88 g	0.04 lb
Width	11.50 mm	I 0.45 in

IEC 61169-16:9.3.11

267.00 N | 60.02 lbf IEC 61169-15:9.3.11

Product Specifications



F1TSM-HF



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)
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	1	212 °F

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
824-2700 MHz	1.02	40.00
3000-6000 MHz	1.04	34.00
6000-12000 MHz	1.11	26.00
12000-19000 MHz	1.33	17.00

Regulatory Compliance/Certifications

Agency

RoHS 2002/95/EC China RoHS SJ/T 11364-2006

ISO 9001:2008

Classification

Compliant by Exemption

Above Maximum Concentration Value (MCV)

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



