## F1TQM-HC



#### QMA Male connector for 1/4 in FSJ1-50A cable

Wireless and radiating connector

HELIAX®

FSJ1-50A

Product Classification
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Product Type Product Brand

Product Series

Product Series

#### General Specifications

Body Style	Straight
Cable Family	FSJ1-50A
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Gold
Interface	QMA Male
Mounting Angle	Straight
Outer Contact Attachment Method	Self-clamping
Outer Contact Plating	Trimetal
Dimensions	
Length	49.78 mm   1.96 in

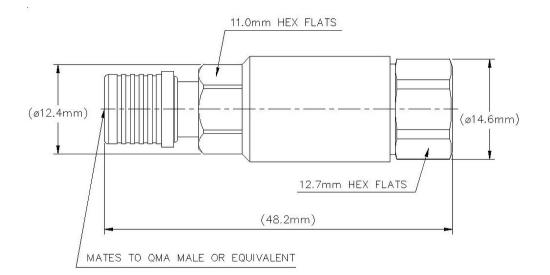
Length	49.78 mm   1.96 in
Diameter	14.48 mm   0.57 in
Nominal Size	1/4 in

### Outline Drawing

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### **Electrical Specifications**

Average Power at Frequency	0.4 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	1600 V
Inner Contact Resistance, maximum	1 m0hm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	0.25 mOhm
Peak Power, maximum	6.4 kW
RF Operating Voltage, maximum (vrms)	565 V
Shielding Effectiveness	-110 dB

### VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
824–2200 MHz	1.052	31.92
2200–4000 MHz	1.065	30.04

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4000-6000 MHz	1.222	20.01
Mechanical Specifications		
Connector Retention Tensil	e Force	449.27 N   101 lbf
Interface Durability		150 cycles

Interface Durability Method	IEC 61169-4:17
Mechanical Shock Test Method	IEC 60068-2-27

### **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)
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
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Moisture Resistance Test Method	IEC 60068-2-3
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6

### Packaging and Weights

Weight, net

34.7 g | 0.076 lb

### Regulatory Compliance/Certifications

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

### \* Footnotes

Immersion Depth

Immersion at specified depth for 24 hours

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