

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



Product Classification

Brand	HELIAX®
Product Type	Wireless and radiating connector

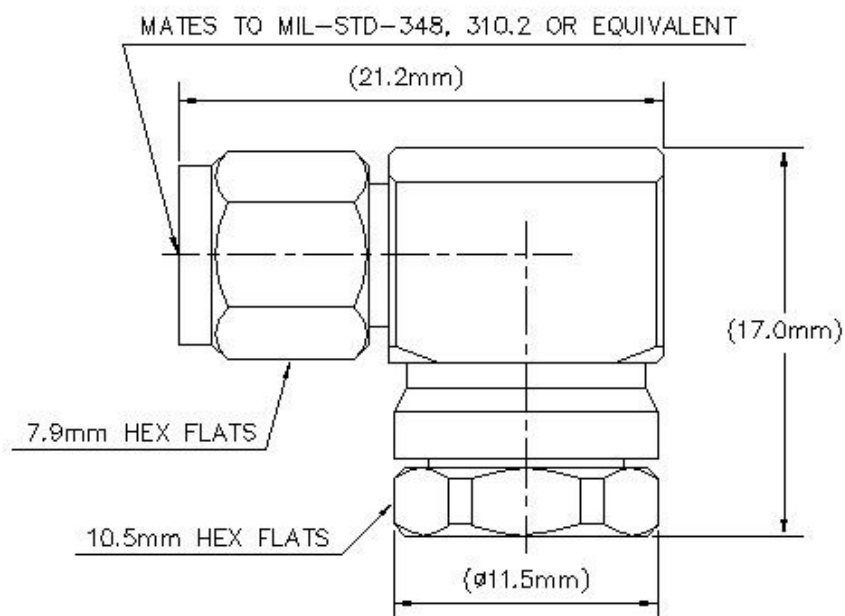
General Specifications

Interface	SMA Male
Body Style	Right angle
Mounting Angle	Right angle

Electrical Specifications

Connector Impedance	50 ohm
Operating Frequency Band	0 – 12000 MHz
Average Power at Frequency	0.4 kW @ 900 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
Peak Power, maximum	5.00 kW

## Outline Drawing



## Mechanical Specifications

<b>Outer Contact Attachment Method</b>	Tab-flare
<b>Inner Contact Attachment Method</b>	Solder
<b>Outer Contact Plating</b>	Trimetal
<b>Inner Contact Plating</b>	Gold
<b>Interface Durability</b>	500 cycles
<b>Interface Durability Method</b>	IEC 61169-1:9.5
<b>Connector Retention Tensile Force</b>	450 N   101 lbf
<b>Coupling Nut Proof Torque</b>	1.70 N-m   1.25 ft lb
<b>Coupling Nut Proof Torque Method</b>	IEC 61169-1:9.3.6
<b>Coupling Nut Retention Force</b>	180.00 N   40.47 lbf
<b>Coupling Nut Retention Force Method</b>	IEC 61169-1:9.3.11

## Dimensions

<b>Nominal Size</b>	1/4 in
<b>Diameter</b>	11.50 mm   0.45 in
<b>Height</b>	11.50 mm   0.45 in
<b>Length</b>	21.15 mm   0.83 in
<b>Right Angle Length</b>	16.95 mm   0.67 in

<b>Weight</b>	12.08 g   0.03 lb
<b>Width</b>	16.95 mm   0.67 in

## Environmental Specifications

<b>Operating Temperature</b>	-55 °C to +85 °C (-67 °F to +185 °F)
<b>Storage Temperature</b>	-65 °C to +125 °C (-85 °F to +257 °F)
<b>Moisture Resistance Test Method</b>	IEC 60068-2-3
<b>Mechanical Shock Test Method</b>	IEC 60068-2-27
<b>Thermal Shock Test Method</b>	IEC 60068-2-14
<b>Vibration Test Method</b>	IEC 60068-2-6
<b>Corrosion Test Method</b>	IEC 60068-2-11

## Standard Conditions

<b>Attenuation, Ambient Temperature</b>	20 °C   68 °F
<b>Average Power, Ambient Temperature</b>	40 °C   104 °F
<b>Average Power, Inner Conductor Temperature</b>	100 °C   212 °F

## Return Loss/VSWR

<b>Frequency Band</b>	<b>VSWR</b>	<b>Return Loss (dB)</b>
45–2700 MHz	1.07	29.42
2700–4000 MHz	1.12	24.94
4000–6000 MHz	1.20	20.83
6000–8000 MHz	1.25	19.08
8000–10000 MHz	1.40	15.56
10000–12000 MHz	1.50	13.98

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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)

