

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



Product Classification

| | |
|-----------------------|----------------------------------|
| Product Type | Wireless and radiating connector |
| Product Brand | HELIAX® |
| Product Series | FSJ1-50A |

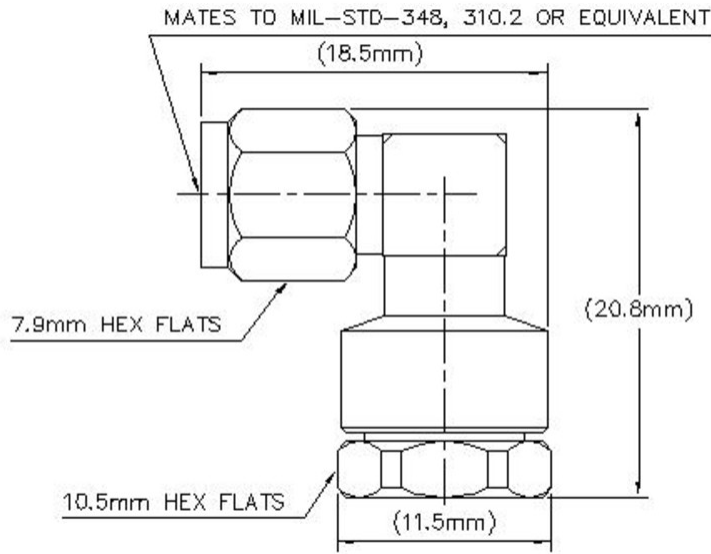
General Specifications

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|--|-------------|
| Body Style | Right angle |
| Cable Family | FSJ1-50A |
| Inner Contact Attachment Method | Solder |
| Inner Contact Plating | Gold |
| Interface | SMA Male |
| Outer Contact Attachment Method | Clamp |
| Outer Contact Plating | Trimetal |
| Pressurizable | No |

Dimensions

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|---------------------------|--------------------|
| Height | 18.8 mm 0.74 in |
| Width | 10.92 mm 0.43 in |
| Length | 20.83 mm 0.82 in |
| Right Angle Length | 18.8 mm 0.74 in |
| Nominal Size | 1/4 in |

Outline Drawing



Electrical Specifications

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|---|------------------|
| Average Power at Frequency | 0.4 kW @ 900 MHz |
| 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 – 18000 MHz |
| Outer Contact Resistance, maximum | 2.5 mOhm |
| Peak Power, maximum | 2.5 kW |
| RF Operating Voltage, maximum (vrms) | 565 V |

VSWR/Return Loss

| Frequency Band | VSWR | Return Loss (dB) |
|----------------|------|------------------|
| 45–2700 MHz | 1.06 | 31 |
| 2700–4000 MHz | 1.07 | 30 |
| 4000–6000 MHz | 1.12 | 25 |
| 6000–9000 MHz | 1.2 | 21 |
| 9000–10200 MHz | 1.23 | 20 |

| | | |
|-----------------|------|----|
| 10000–12000 MHz | 1.26 | 19 |
| 12000–16200 MHz | 1.29 | 18 |
| 16200–18000 MHz | 1.44 | 15 |

Mechanical Specifications

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|-------------------------------------|------------------------|
| 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 61169-15:9.3.6 |
| Coupling Nut Retention Force | 180.02 N 40.47 lbf |
| Coupling Nut Retention Force Method | IEC 61169-15:9.3.11 |
| Insertion Force | 22.02 N 4.95 lbf |
| Insertion Force Method | IEC 61169-15:9.3.5 |
| Interface Durability | 500 cycles |
| Interface Durability Method | IEC 61169-15:9.5 |
| Mechanical Shock Test Method | IEC 60068-2-27 |

Environmental Specifications

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|--|---------------------------------------|
| Operating Temperature | -40 °C to +85 °C (-40 °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 |
| Water Jetting Test Mating | Mated |
| Water Jetting Test Method | IEC 60529:2001, IP65 |

Packaging and Weights

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|-------------|-------------------|
| Weight, net | 8.76 g 0.019 lb |
|-------------|-------------------|

Regulatory Compliance/Certifications

| Agency | Classification |
|--------|----------------|
|--------|----------------|

CHINA-ROHS

Below maximum concentration value

ISO 9001:2015

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

ROHS

Compliant

