

F1T5F-BH

SMA Female Bulkhead for 1/4 in FSJ1-50A cable

General Specifications

| | |
|----------------|------------|
| Interface | SMA Female |
| Body Style | Bulkhead |
| Brand | HELIAX® |
| Mounting Angle | Straight |

Electrical Specifications

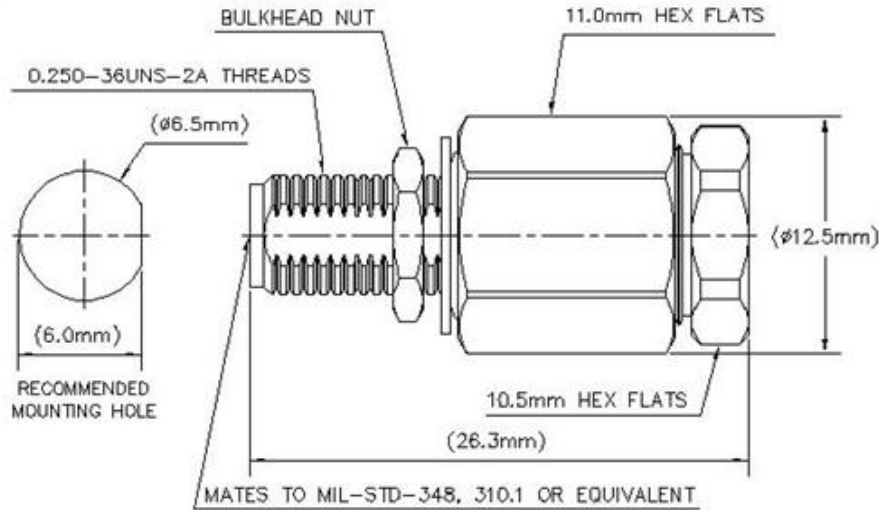
| | |
|--------------------------------------|------------------|
| Connector Impedance | 50 ohm |
| Operating Frequency Band | 0 – 18000 MHz |
| Cable Impedance | 50 ohm |
| RF Operating Voltage, maximum (vrms) | 500.00 V |
| dc Test Voltage | 1000 V |
| Outer Contact Resistance, maximum | 2.50 mOhm |
| 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 |

FITSF-BH

POWERED BY



Outline Drawing



Mechanical Specifications

| | |
|-----------------------------------|-----------------------|
| Outer Contact Attachment Method | Tab-flare |
| Inner Contact Attachment Method | Solder |
| Outer Contact Plating | Trimetal |
| Inner Contact Plating | Gold |
| Interface Durability | 500 cycles |
| Interface Durability Method | IEC 61169-4:17 |
| Connector Retention Tensile Force | 355 N 80 lbf |
| Connector Retention Torque | 1.00 N-m 0.74 ft lb |
| Insertion Force | 97.86 N 22.00 lbf |
| Insertion Force Method | IEC 61169-16:9.3.5 |
| Pressurizable | No |
| Coupling Nut Proof Torque Method | IEC 61169-16:9.3.11 |

Dimensions

| | |
|--------------|--------------------|
| Nominal Size | 1/4 in |
| Diameter | 12.50 mm 0.49 in |
| Height | 12.50 mm 0.49 in |
| Length | 22.67 mm 0.89 in |
| Weight | 10.57 g 0.02 lb |
| Width | 12.50 mm 0.49 in |

Environmental Specifications

| | |
|-----------------------|--------------------------------------|
| Operating Temperature | -55 °C to +85 °C (-67 °F to +185 °F) |
|-----------------------|--------------------------------------|

FITSF-BH

POWERED BY



| | |
|---------------------------------|---------------------------------------|
| 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 212 °F |

Return Loss/VSWR

| Frequency Band | VSWR | Return Loss (dB) |
|-----------------|------|------------------|
| 824–2700 MHz | 1.11 | 25.60 |
| 3000–6000 MHz | 1.14 | 23.60 |
| 6000–8000 MHz | 1.14 | 23.60 |
| 8000–10000 MHz | 1.19 | 21.20 |
| 10000–12000 MHz | 1.25 | 19.00 |
| 12000–14000 MHz | 1.25 | 19.00 |
| 14000–18000 MHz | 1.33 | 17.00 |

Regulatory Compliance/Certifications

| Agency | Classification |
|----------------------------|--|
| RoHS 2011/65/EU | Compliant by Exemption |
| China RoHS SJ/T 11364-2006 | Above Maximum Concentration Value (MCV) |
| ISO 9001:2008 | Designed, manufactured and/or distributed under this quality management system |

