

Product Specifications



L47R

1-5/8 in EIA Flange for 1-5/8 in LDF7-50 cable



CHARACTERISTICS

General Specifications

| | |
|----------------|---------------------|
| Interface | 1-5/8 in EIA Flange |
| Body Style | Straight |
| Mounting Angle | Straight |

Electrical Specifications

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|--------------------------------------|------------------|
| Operating Frequency Band | 0 – 2500 MHz |
| Average Power | 2.3 kW @ 900 MHz |
| Cable Impedance | 50 ohm |
| Connector Impedance | 50 ohm |
| dc Test Voltage | 6000 V |
| Inner Contact Resistance | 1.50 mOhm |
| Insulation Resistance, minimum | 5000 MOhm |
| Outer Contact Resistance | 1.50 mOhm |
| Peak Power, maximum | 90.00 kW |
| RF Operating Voltage, maximum (vrms) | 2120.00 V |
| Shielding Effectiveness | -110 dB |

Mechanical Specifications

| | |
|-----------------------------------|--------------------|
| Outer Contact Attachment Method | Self-flare |
| Attachment Durability | 25 cycles |
| Connector Retention Tensile Force | 500 lbf 2224 N |
| Connector Retention Torque | 120 in lb 14 N·m |
| Inner Contact Attachment Method | Tab-flare |
| Interface Durability | 50 cycles |
| Pressurizable | No |

Dimensions

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|-------------------|---------------------|
| Nominal Size | 1-5/8 in |
| Diameter, maximum | 3.50 in 88.90 mm |
| Length | 5.10 in 129.54 mm |
| Weight | 1555.85 g 3.43 lb |

Product Specifications



Environmental Specifications

| | |
|---------------------------------|---|
| Corrosion Test Method | MIL-STD-1344A, Method 1001.1, Test Condition A |
| Immersion Depth | 1 m |
| Immersion Test Mating | Mated |
| Immersion Test Method | IEC 529:1989, IP68 |
| Mechanical Shock Test Method | MIL-STD-202, Method 213, Test Condition I |
| Moisture Resistance Test Method | MIL-STD-202, Method 106 |
| Operating Temperature | -55 °C to +85 °C (-67 °F to +185 °F) |
| Storage Temperature | -55 °C to +85 °C (-67 °F to +185 °F) |
| Thermal Shock Test Method | MIL-STD-202F, Method 107G, Test Condition A-1, Low Temperature -55 °C |
| Vibration Test Method | MIL-STD-202, Method 204, Test Condition B |
| Water Jetting Test Mating | Mated |
| Water Jetting Test Method | IEC 529:1989, IP66 |

Standard Conditions

| | |
|------------------------------------|----------------|
| Attenuation, Ambient Temperature | 20 °C 68 °F |
| Average Power, Ambient Temperature | 40 °C 104 °F |

Return Loss

| Frequency Band | Return Loss (dB) |
|----------------|------------------|
| 45–2500 MHz | 25.00 |

* Footnotes

| | |
|-----------------|---|
| Immersion Depth | Immersion at specified depth for 24 hours |
|-----------------|---|