



F4PDMV2-C

7-16 DIN Male for 1/2 in FSJ4-50B cable

General Specifications

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|----------------|---------------|
| Interface | 7-16 DIN Male |
| Body Style | Straight |
| Brand | HELIAX® |
| Mounting Angle | Straight |

Electrical Specifications

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|--------------------------------------|----------------------|
| Connector Impedance | 50 ohm |
| Operating Frequency Band | 0 – 7500 MHz |
| Cable Impedance | 50 ohm |
| 3rd Order IMD, typical | -120 dBm @ 910 MHz |
| 3rd Order IMD Test Method | Two +43 dBm carriers |
| RF Operating Voltage, maximum (vrms) | 884.00 V |
| dc Test Voltage | 2500 V |
| Outer Contact Resistance, maximum | 1.50 mOhm |
| Inner Contact Resistance, maximum | 0.80 mOhm |
| Insulation Resistance, minimum | 5000 MOhm |
| Average Power | 1.0 kW @ 900 MHz |
| Peak Power, maximum | 15.60 kW |
| Insertion Loss, typical | 0.05 dB |
| Shielding Effectiveness | -110 dB |

Mechanical Specifications

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|-------------------------------------|---------------------------|
| Outer Contact Attachment Method | Crush-flare |
| Inner Contact Attachment Method | Captivated |
| Outer Contact Plating | Trimetal |
| Inner Contact Plating | Silver |
| Attachment Durability | 25 cycles |
| Interface Durability | 500 cycles |
| Interface Durability Method | IEC 61169-4:9.5 |
| Connector Retention Tensile Force | 890 N 200 lbf |
| Connector Retention Torque | 5.42 N-m 48.00 in lb |
| Insertion Force | 200.17 N 45.00 lbf |
| Insertion Force Method | IEC 61169-1:15.2.4 |
| Pressurizable | No |
| Coupling Nut Proof Torque | 24.86 N-m 220.00 in lb |
| Coupling Nut Retention Force | 1000.85 N 225.00 lbf |
| Coupling Nut Retention Force Method | MIL-C-39012C-3.25, 4.6.22 |

Dimensions

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|--------------|--------|
| Nominal Size | 1/2 in |
|--------------|--------|

F4PDMV2-C



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| Diameter | 34.54 mm 1.36 in |
| Length | 50.01 mm 1.97 in |
| Weight | 136.08 g 0.30 lb |

Environmental Specifications

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|---------------------------------|---|
| Operating Temperature | -55 °C to +85 °C (-67 °F to +185 °F) |
| Storage Temperature | -55 °C to +85 °C (-67 °F to +185 °F) |
| Immersion Depth | 1 m |
| Immersion Test Mating | Mated |
| Immersion Test Method | IEC 60529:2001, IP68 |
| Water Jetting Test Mating | Mated |
| Water Jetting Test Method | IEC 60529:2001, IP66 |
| Moisture Resistance Test Method | MIL-STD-202F, Method 106F |
| Mechanical Shock Test Method | MIL-STD-202F, Method 213B, Test Condition C |
| Thermal Shock Test Method | MIL-STD-202, Method 107, Test Condition A-1, Low Temperature -55 °C |
| Vibration Test Method | MIL-STD-202F, Method 204D, Test Condition B |
| Corrosion Test Method | MIL-STD-1344A, Method 1001.1, Test Condition A |

Standard Conditions

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

Return Loss/VSWR

| Frequency Band | VSWR | Return Loss (dB) |
|----------------|------|------------------|
| 0–2200 MHz | 1.03 | 36.00 |
| 2200–2700 MHz | 1.05 | 33.00 |
| 2700–3000 MHz | 1.05 | 32.00 |

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 |



* Footnotes

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|-------------------------|--|
| Immersion Depth | Immersion at specified depth for 24 hours |
| Insertion Loss, typical | $0.05\sqrt{\text{freq}}$ (GHz) (not applicable for elliptical waveguide) |