

7-16 DIN Male OnePiece™ for 1-1/4 in LDF6-50 cable

OBSOLETE

This product was discontinued on: May 21, 2017

Replaced By:

AL6DM-PSA 7-16 DIN Male Positive Stop™ for 1-1/4 in AVA6-50 cable

L6TDM-PS 7-16 DIN Male Positive Stop™ for 1-1/4 in LDF6-50 cable

Product Classification

Product Type Wireless and radiating connector

Product Brand HELIAX® | OnePiece™

General Specifications

Body Style Straight

Cable Family LDF6-50

Inner Contact Attachment Method Captivated

Inner Contact Plating Silver

Interface 7-16 DIN Male

Mounting AngleStraightOuter Contact Attachment MethodBall clampOuter Contact PlatingTrimetalPressurizableNo

Dimensions

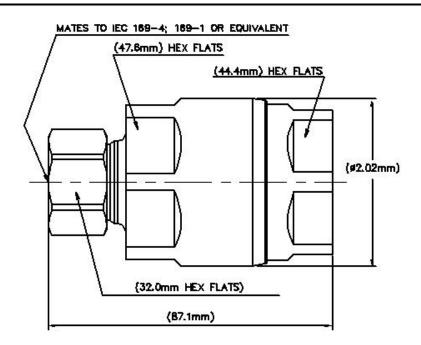
 Length
 86.11 mm | 3.39 in

 Diameter
 52.07 mm | 2.05 in

Nominal Size 1-1/4 in

Outline Drawing

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Electrical Specifications

3rd Order IMD at Frequency -120 dBm @ 910 MHz

3rd Order IMD Test Method Two +43 dBm carriers

Insertion Loss Coefficient, typical 0.05

Average Power at Frequency 3.0 kW @ 900 MHz

Cable Impedance 50 ohm

Connector Impedance 50 ohm

dc Test Voltage 4000 V

Inner Contact Resistance, maximum 5000 MOhm

Insulation Resistance, minimum5000 MOhmOperating Frequency Band0 - 3300 MHz

Outer Contact Resistance, maximum 1.5 mOhm

Peak Power, maximum40 kWRF Operating Voltage, maximum (vrms)1415 VShielding Effectiveness-130 dB

VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

40–1000 MHz 1.023 38.89

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1010–2200 MHz 1.025 38.17 **2200–3300 MHz** 1.046 32.96

Mechanical Specifications

Attachment Durability 25 cycles

Connector Retention Tensile Force 1,779.29 N | 400 lbf

Connector Retention Torque10.85 N-m96.004 in lbCoupling Nut Proof Torque24.86 N-m220.003 in lb

Coupling Nut Retention Force 1,000.85 N | 225 lbf

Coupling Nut Retention Force Method MIL-C-39012C-3.25, 4.6.22

Insertion Force200.17 N | 45 lbfInsertion Force MethodIEC 61169-1:15.2.4

Interface Durability 500 cycles

Interface Durability Method IEC 61169-4:9.5

Mechanical Shock Test Method MIL-STD-202F, Method 213B, Test Condition C

Environmental Specifications

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

Attenuation, Ambient Temperature $20 \, ^{\circ}\text{C} \mid 68 \, ^{\circ}\text{F}$ Average Power, Ambient Temperature $40 \, ^{\circ}\text{C} \mid 104 \, ^{\circ}\text{F}$

Corrosion Test Method MIL-STD-1344A, Method 1001.1, Test Condition A

Immersion Depth 1 m

Immersion Test Mating Unmated

Immersion Test Method IEC 60529:2001. IP68

Moisture Resistance Test Method MIL-STD-202F, Method 106F

Thermal Shock Test Method MIL-STD-202F, Method 107G, Test Condition A-1, Low Temperature -55 °C

Vibration Test Method MIL-STD-202F, Method 204D, Test Condition B

Water Jetting Test Mating Unmated

Water Jetting Test Method IEC 60529:2001, IP66

Packaging and Weights

Weight, net 463 g | 1.021 lb



* Footnotes

Insertion Loss Coefficient, typical 0.05√ freq (GHz) (not applicable for elliptical waveguide)

Immersion Depth Immersion at specified depth for 24 hours

