L6PDF-RPC



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

OBSOLETE

This product was discontinued on: March 31, 2008

Replaced By:

AL6DF-PSA 7-16 DIN Female Positive Stop™ for 1-1/4 in AVA6-50 cable

L6TDF-PS 7-16 DIN Female 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 Female

Mounting AngleStraightOuter Contact Attachment MethodBall clampOuter Contact PlatingTrimetalPressurizableNo

Dimensions

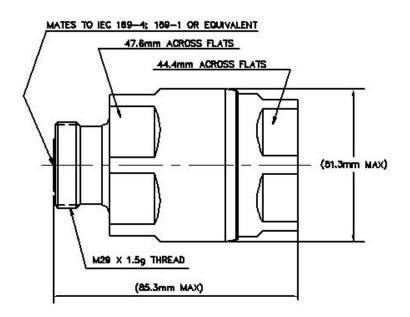
 Length
 86.11 mm | 3.39 in

 Diameter
 52.07 mm | 2.05 in

Nominal Size 1-1/4 in

Outline Drawing





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 0.8 m0hm Insulation Resistance, minimum 5000 MOhm **Operating Frequency Band** 0 - 3300 MHz **Outer Contact Resistance, maximum** 1.5 m0hm Peak Power, maximum 40 kW RF Operating Voltage, maximum (vrms) 1415 V

VSWR/Return Loss

Shielding Effectiveness

Frequency Band VSWR Return Loss (dB)

40–1000 MHz 1.032 36.06

COMMSC PE®

-130 dB

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1010–2200 MHz 1.03 36.61 **2210–3300 MHz** 1.041 33.94

Mechanical Specifications

Attachment Durability 25 cycles

Connector Retention Tensile Force 1,779.29 N | 400 lbf

Connector Retention Torque 10.85 N-m | 96.004 in lb

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

Interface Durability 50 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 IEC 60068-2-6

Water Jetting Test Mating Unmated

Water Jetting Test Method IEC 60529:2001, IP66

Packaging and Weights

Weight, net 484 g | 1.067 lb

* Footnotes

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



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Immersion Depth

Immersion at specified depth for 24 hours

