# Product Specifications



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### L7PDF-RPC

7-16 DIN Female OnePiece™ for 1-5/8 in LDF7-50A cable

## **OBSOLETE**

**Replaced By** 

AL7DF-PS 7-16 DIN Female Positive Stop<sup>™</sup> for 1-5/8 in cable

AL7DF-PSA 7-16 DIN Female Positive Stop™ for 1-5/8 in cable

## **General Specifications**

Interface 7-16 DIN Female

Body Style Straight

Brand HELIAX® | OnePiece™

Mounting Angle Straight

### **Electrical Specifications**

Connector Impedance 50 ohm

Operating Frequency Band 0 – 2500 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) 1415.00 V
dc Test Voltage 4000 V
Outer Contact Resistance, maximum 1.50 mOhm
Inner Contact Resistance, maximum 0.80 mOhm
Insulation Resistance, minimum 5000 MOhm

Average Power 3.0 kW @ 900 MHz

Peak Power, maximum 40.00 kW Insertion Loss, typical 0.05 dB Shielding Effectiveness -130 dB

## Product Specifications

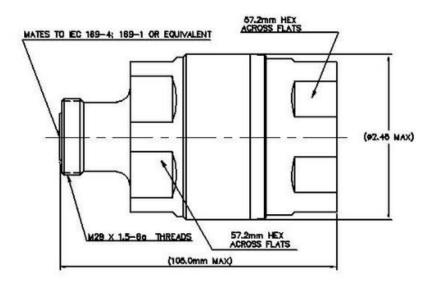


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## **Outline Drawing**



## **Mechanical Specifications**

Outer Contact Attachment Method Ball clamp
Inner Contact Attachment Method Captivated
Outer Contact Plating Trimetal
Inner Contact Plating Silver
Attachment Durability 25 cycles
Interface Durability 50 cycles

Interface Durability Method IEC 61169-16:9.5

Connector Retention Tensile Force 2224 N | 500 lbf

Connector Retention Torque 13.56 N-m | 120.00 in lb Insertion Force 200.17 N | 45.00 lbf Insertion Force Method IEC 61169-1:15.2.4

Pressurizable No

#### **Dimensions**

Nominal Size 1-5/8 in

 Diameter
 62.00 mm | 2.44 in

 Length
 103.99 mm | 4.09 in

 Weight
 680.40 g | 1.50 lb

## **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)

Immersion Depth 1 m

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Immersion Test Mating Unmated

Immersion Test Method IEC 60529:2001, IP68

Water Jetting Test Mating Unmated

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

Vibration Test Method IEC 60068-2-6

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

#### **Standard Conditions**

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

#### **Return Loss/VSWR**

Frequency Band	VSWR	Return Loss (dB)
40-1000 MHz	1.03	37.00
1010-2200 MHz	1.03	36.00
2200-2500 MHz	1.06	31.00

## **Regulatory Compliance/Certifications**

Agency

RoHS 2011/65/EU China RoHS SJ/T 11364-2006 Classification

Compliant by Exemption

Above Maximum Concentration Value (MCV)





#### \* Footnotes

Immersion Depth Immersion at specified depth for 24 hours

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