

## L12PDM

7-16 DIN Male for 2-1/4 in LDF12-50 cable



## CHARACTERISTICS

### General Specifications

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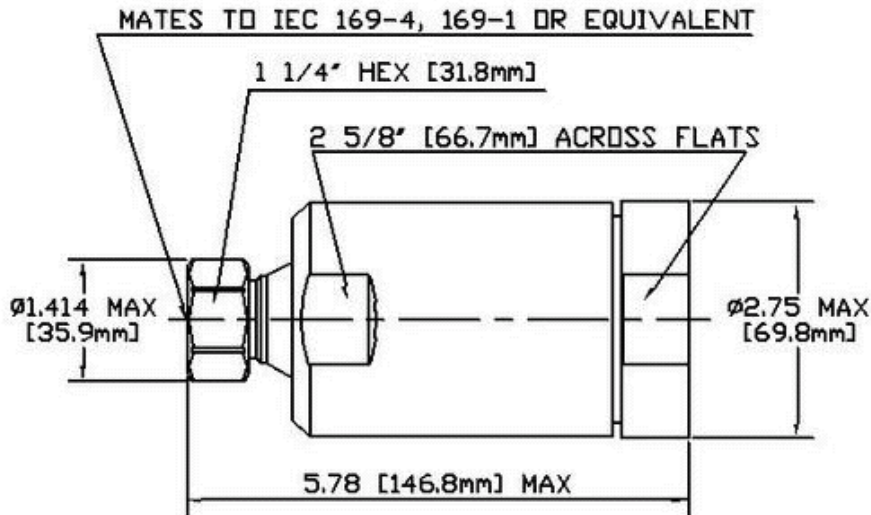
Interface	7-16 DIN Male
Body Style	Straight
Brand	HELIAX®
Mounting Angle	Straight

### Electrical Specifications

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Connector Impedance	50 ohm
Operating Frequency Band	0 – 2200 MHz
Cable Impedance	50 ohm
RF Operating Voltage, maximum (vrms)	1415.00 V
dc Test Voltage	4000 V
Outer Contact Resistance	1.50 mOhm
Inner Contact Resistance	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

## Outline Drawing



## Mechanical Specifications

Outer Contact Attachment Method	Self-flare
Inner Contact Attachment Method	Self-tapping
Outer Contact Plating	Trimetal
Inner Contact Plating	Silver
Attachment Durability	25 cycles
Interface Durability	500 cycles
Interface Durability Method	IEC 169-16:9.5
Pressurizable	No
Coupling Nut Retention Force	1000.85 N   225.00 lbf
Coupling Nut Retention Force Method	MIL-C-39012C-3.25, 4.6.22

## Dimensions

Nominal Size	2-1/4 in
Diameter, maximum	71.12 mm   2.80 in
Length	147.32 mm   5.80 in
Weight	1542.24 g   3.40 lb

## Environmental Specifications

Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
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# Product Specifications



L12PDM

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-202F, Method 107G, 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

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Frequency Band	VSWR	Return Loss (dB)
45–1000 MHz	1.07	30.00
1010–1300 MHz	1.09	27.00
1310–2200 MHz	1.15	23.00

## Regulatory Compliance/Certifications

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Agency	Classification
RoHS 2002/95/EC	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)



## \* 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)