L4PDR

7-16 DIN Male Right Angle for 1/2 in LDF4-50A cable

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OBSOLETE

This product was discontinued on: January 30, 2011

Replaced By:

L4DR-PS	7-16 DIN Male Right Angle Positive Stop™ for 1/2 in LDF4-50A cable
L4PDR-C	7-16 DIN Male Right Angle for 1/2 in LDF4-50A cable

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Product Classification

Product Type	Wireless and radiating connector
Product Brand	HELIAX®

General Specifications

Body Style	Right angle
Cable Family	LDF4-50A
Inner Contact Attachment Method	Solder
Inner Contact Plating	Silver
Interface	7-16 DIN Male
Mounting Angle	Right angle
Outer Contact Attachment Method	Self-flare
Outer Contact Plating	Silver
Pressurizable	No

Dimensions

Length	45.72 mm | 1.8 in
Right Angle Length	71.12 mm | 2.8 in
Diameter	35.56 mm | 1.4 in
Nominal Size	1/2 in

Outline Drawing

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MATES TO IEC 169-4; 169-1 OR EQUIVALENT

1.92 MAX [48.8mm]
1.48 MAX [37.6mm]
1.414 MAX [35.9mm]
2.95 MAX [74.9mm]
2.24 MAX [56.9mm]
1 1/4" HEX [31.8mm]
29/32" ACROSS FLATS [23.1mm]
13/16" HEX [20.7mm]
1.00 MAX [25.4mm]
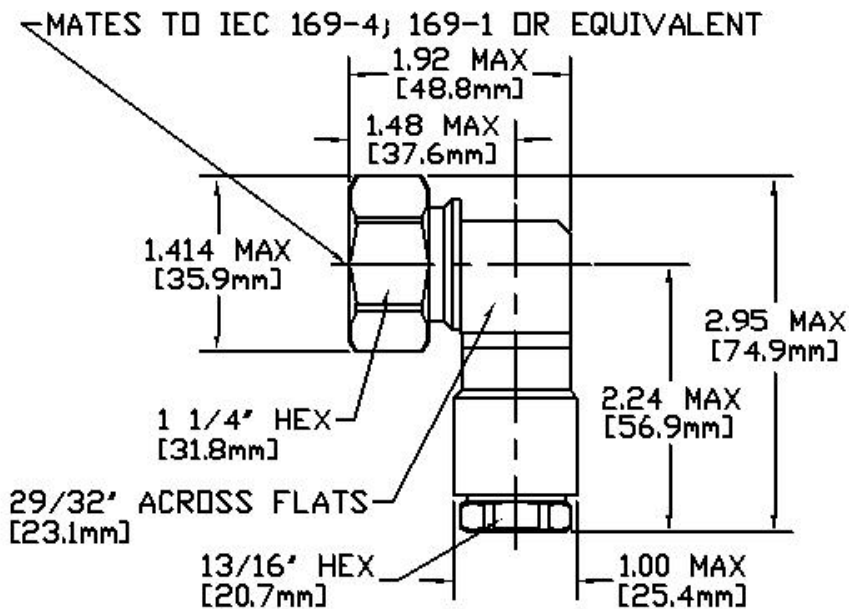
Electrical Specifications

Insertion Loss Coefficient, typical	0.05
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	4000 V
Inner Contact Resistance, maximum	0.8 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 2000 MHz
Outer Contact Resistance, maximum	1.5 mOhm
Peak Power, maximum	40 kW
RF Operating Voltage, maximum (vrms)	1415 V
Shielding Effectiveness	-110 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
45–1000 MHz	1.052	31.92
1000–2000 MHz	1.135	23.98

Mechanical Specifications

Attachment Durability	25 cycles

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Connector Retention Tensile Force	889.64 N | 200 lbf
Connector Retention Torque	5.42 N-m | 47.998 in lb
Coupling Nut Proof Torque	25 N-m | 221.269 in lb
Coupling Nut Retention Force	1000 N | 224.81 lbf
Coupling Nut Retention Force Method	MIL-C-39012C-3.25, 4.6.22
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-4:9.5

Environmental Specifications

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

Packaging and Weights

Weight, net	216 g | 0.476 lb

* Footnotes

Insertion Loss Coefficient, typical $0.05\sqrt{\text{freq}}$ (GHz) (not applicable for elliptical waveguide)

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