

Product Specifications

L4DR-PS

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



CHARACTERISTICS

General Specifications

Interface	7-16 DIN Male
Body Style	Right angle
Brand	HELIAX [®]
Mounting Angle	Right angle

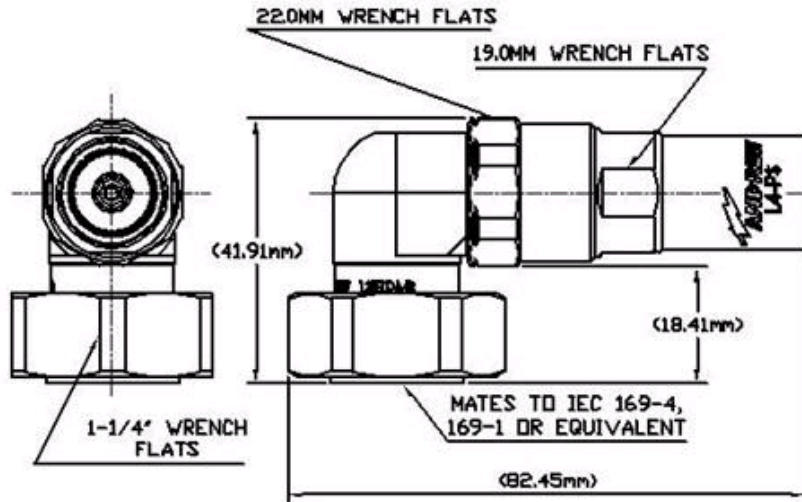
Electrical Specifications

Connector Impedance	50 ohm
Operating Frequency Band	0 – 7500 MHz
Cable Impedance	50 ohm
3rd Order IMD	-120 dBm @ 910 MHz
3rd Order IMD Test Method	Two +43 dBm Carriers
RF Operating Voltage, maximum (vrms)	884.00 V
dc Test Voltage	2500 V
Outer Contact Resistance, maximum	1.50 mOhm
Inner Contact Resistance, maximum	0.80 mOhm
Insulation Resistance, minimum	5000 MOhm
Average Power	1.0 kW @ 900 MHz
Peak Power, maximum	15.60 kW
Insertion Loss, typical	0.05 dB
Shielding Effectiveness	-110 dB

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Outline Drawing



Mechanical Specifications

Outer Contact Attachment Method	Self-flare
Inner Contact Attachment Method	Captivated
Outer Contact Plating	Trimetal
Inner Contact Plating	Gold Silver
Interface Durability	500 cycles
Interface Durability Method	IEC 169-4:9.5
Connector Retention Tensile Force	890 N 200 lbf
Connector Retention Torque	5.42 N-m 48.00 in lb
Pressurizable	No
Coupling Nut Proof Torque	24.86 N-m 220.00 in lb
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	1/2 in
Height	41.91 mm 1.65 in
Length	82.45 mm 3.25 in
Right Angle Length	18.41 mm 0.72 in
Weight	166.90 g 0.37 lb
Width	34.60 mm 1.36 in

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

Frequency Band	VSWR	Return Loss (dB)
0–2200 MHz	1.02	42.00
2200–2700 MHz	1.04	35.00
2700–3600 MHz	1.05	33.00

* Footnotes

Immersion Depth	Immersion at specified depth for 24 hours
Insertion Loss, typical	$0.05\sqrt{\text{freq}}$ (GHz) (not applicable for elliptical waveguide)