

Product Specifications

L45R

7/8 in EIA Flange for 7/8 in LDF5-50A cable

OBSOLETE



- **This product is exclusively available through distribution partners.**

CHARACTERISTICS

General Specifications

Interface	7/8 in EIA Flange
Body Style	Straight
Brand	HELIAX [®]
Mounting Angle	Straight

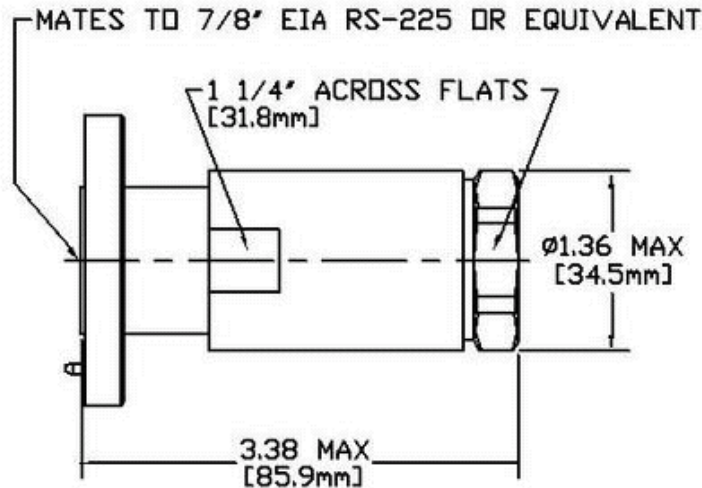
Electrical Specifications

Connector Impedance	50 ohm
Operating Frequency Band	0 – 5000 MHz
Cable Impedance	50 ohm
RF Operating Voltage, maximum (vrms)	2120.00 V
dc Test Voltage	6000 V
Outer Contact Resistance, maximum	1.50 mOhm
Inner Contact Resistance, maximum	1.50 mOhm
Insulation Resistance, minimum	5000 MOhm
Average Power	2.3 kW @ 900 MHz
Peak Power, maximum	90.00 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	Self-tapping
Outer Contact Plating	Unplated
Inner Contact Plating	Silver
Attachment Durability	25 cycles
Interface Durability	50 cycles
Connector Retention Tensile Force	890 N 200 lbf
Connector Retention Torque	8.13 N-m 72.00 in lb
Pressurizable	No
Coupling Nut Proof Torque	24.86 N-m 220.00 in lb

Dimensions

Nominal Size	7/8 in
Diameter	58.42 mm 2.30 in
Length	83.82 mm 3.30 in
Weight	352.00 g 0.78 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)

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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-202, Method 106
Mechanical Shock Test Method	MIL-STD-202, Method 213, Test Condition I
Thermal Shock Test Method	MIL-STD-202F, Method 107G, Test Condition A-1, Low Temperature -55 °C
Vibration Test Method	MIL-STD-202, Method 204, 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)
45–1000 MHz	1.04	35.00
1010–2200 MHz	1.07	29.00
2210–4000 MHz	1.15	23.00
4010–5000 MHz	1.22	20.00

Regulatory Compliance/Certifications

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



* Footnotes

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