Product Specifications

POWERED BY ANDREW

L4E78-PS

7/8 in EIA Flange Positive Stop™ for 1/2 in LDF4-50A cable

General Specifications

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

Electrical Specifications

Operating Frequency Band	0 – 5200 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

Product Specifications

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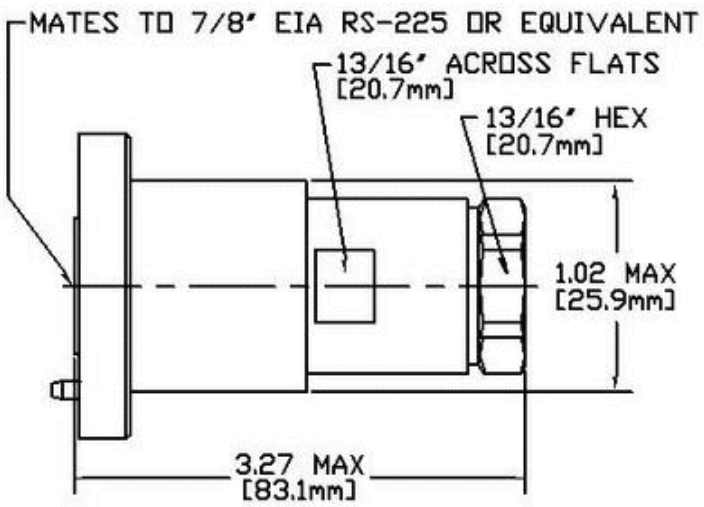
Outline Drawing



Mechanical Specifications

Outer Contact Attachment Method	Self-flare
Inner Contact Attachment Method	Solder
Outer Contact Plating	Unplated
Inner Contact Plating	Unplated
Attachment Durability	25 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	1/2 in
Diameter	56.93 mm | 2.24 in
Length	90.37 mm | 3.56 in
Weight	227.52 g | 0.50 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
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Water Jetting Test Mating	Mated
Water Jetting Test Method	IEC 60529:2001, IP66

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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/VSWR

Frequency Band	VSWR	Return Loss (dB)
45–1000 MHz	1.05	32.00
1010–2200 MHz	1.11	26.00
2210–3000 MHz	1.13	24.00
3010–4000 MHz	1.15	23.00
4010–5000 MHz	1.17	22.00
5010–7000 MHz	1.22	20.00
7010–8000 MHz	1.33	17.00
8010–8800 MHz	1.78	11.00

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	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)