Product Specifications



L4E78-PS

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

Product Classification

Brand HELIAX®

Product Type Wireless and radiating connector

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, minimum 5000 MOhm
Average Power 2.3 kW @ 900 MHz

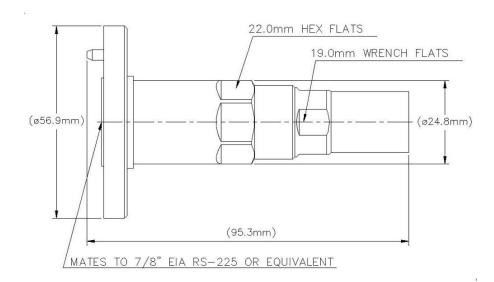
Peak Power, maximum 90.00 kW
Insertion Loss, typical 0.05 dB
Shielding Effectiveness -110 dB

Product Specifications



L4E78-PS

Outline Drawing



Mechanical Specifications

Outer Contact Attachment Method Ring-flare
Inner Contact Attachment Method Captivated
Outer Contact Plating Trimetal
Inner Contact Plating Silver
Attachment Durability 25 cycles

Connector Retention Tensile Force 890 N | 200 lbf

Connector Retention Torque 8.13 N-m | 72.00 in lb

Pressurizable I

Coupling Nut Proof Torque 24.86 N-m | 220.00 in lb

Dimensions

Nominal Size 1/2 in

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 Depth1 mImmersion Test MatingMated

Immersion Test Method IEC 60529:2001, IP68

Product Specifications



L4E78-PS

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/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

RoHS 2011/65/EU China RoHS SJ/T 11364-2006

Classification

Compliant by Exemption

Above Maximum Concentration Value (MCV)





* Footnotes

Immersion Depth Immersion at specified depth for 24 hours

Insertion Loss, typical 0.05v freq (GHz) (not applicable for elliptical waveguide)