Product Specifications









AL5E78-PS

7/8 in EIA Positive Stop™ for 7/8 in AVA5-50 and AL5-50 cable

General Specifications

Interface 7/8 in EIA Flange

Body Style Straight

Brand HELIAX® | Positive Stop™

Mounting Angle Straight

Electrical Specifications

Connector Impedance 50 ohm

Operating Frequency Band 0 – 5000 MHz

Cable Impedance 50 ohm

3rd Order IMD, typical -116 dBm @ 910 MHz

3rd Order IMD, typical -116 dBm @ 910 MHz
3rd Order IMD Test Method Two +43 dBm carriers

RF Operating Voltage, maximum (vrms) 2120.00 V
dc Test Voltage 6000 V
Outer Contact Resistance, maximum 1.50 mOhm
Inner Contact Resistance, maximum 5000 MOhm

Average Power 2.3 kW @ 900 MHz

Peak Power, maximum 90.00 kW Insertion Loss, typical 0.05 dB Shielding Effectiveness -130 dB

Product Specifications

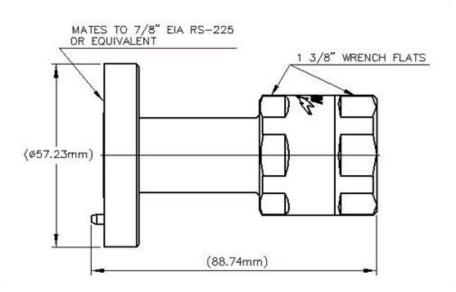


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Outline Drawing



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
Interface Durability 50 cycles

Connector Retention Tensile Force 1335 N | 300 lbf
Connector Retention Torque 8.10 N-m | 71.69 in lb
Insertion Force 66.72 N | 15.00 lbf
Insertion Force Method IEC 61169-1:15.2.4

Pressurizable No

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

Dimensions

Nominal Size 7/8 in

 Diameter
 57.23 mm | 2.25 in

 Length
 88.74 mm | 3.49 in

 Weight
 340.21 g | 0.75 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 Unmated

Product Specifications



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AL5E78-PS

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-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-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/VSWR

Frequency Band	VSWR	Return Loss (dB)
50-1000 MHz	1.04	35.00
1700-2200 MHz	1.04	35.00
2400-2700 MHz	1.07	30.00
3400-3600 MHz	1.12	25.00

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU Compliant by Exemption

China RoHS SJ/T 11364-2006

ISO 9001:2008

Classification

Above Maximum Concentration Value (MCV)

Designed, manufactured and/or distributed under this quality management system





* Footnotes

Immersion Depth Immersion at specified depth for 24 hours

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