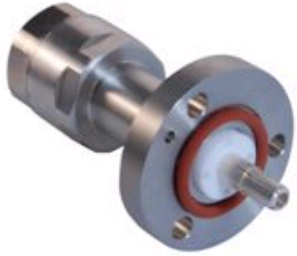


# Product Specifications

AL5E78-PS

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



## CHARACTERISTICS

### General Specifications

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

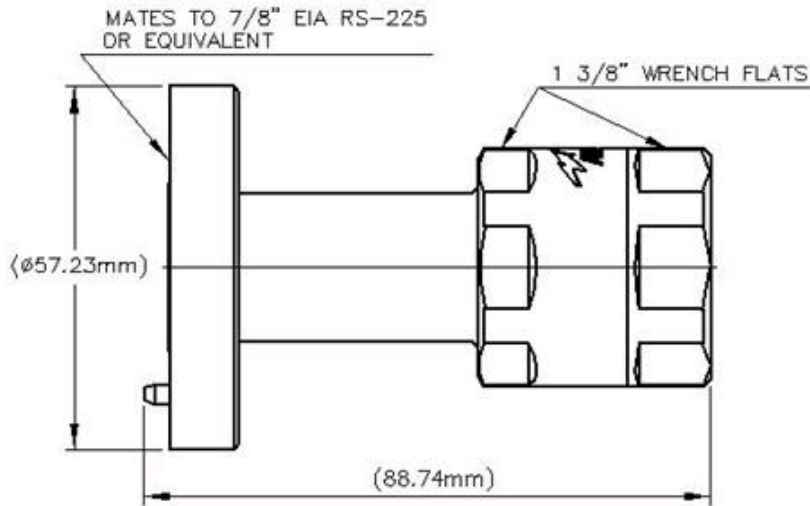
### Electrical Specifications

Connector Impedance	50 ohm
Operating Frequency Band	0 – 5000 MHz
Cable Impedance	50 ohm
3rd Order IMD	-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	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	-130 dB

# Product Specifications

AL5E78-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
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 169-1:15.2.4
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

# Product Specifications



AL5E78-PS

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-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

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Attenuation, Ambient Temperature	20 °C   68 °F
Average Power, Ambient Temperature	40 °C   104 °F

## Return Loss

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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

## \* Footnotes

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