Product Specifications



AL7E158-PS

1-5/8 in EIA Flange for 1-5/8 in AVA7-50 and AL7-50 cable



CHARACTERISTICS

General Specifications

Interface 1-5/8 in EIA Flange

Body StyleStraightBrandHELIAX®Mounting AngleStraight

Electrical Specifications

Connector Impedance 50 ohm
Operating Frequency Band 0 - 2500 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 3.4 kW @ 900 MHz

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

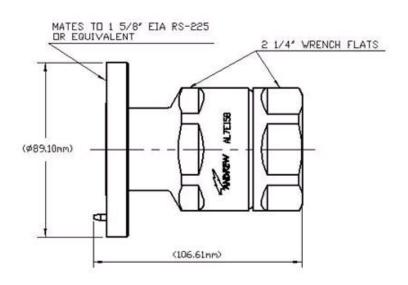


Product Specifications





Outline Drawing



Mechanical Specifications

Outer Contact Attachment Method Self-flare
Inner Contact Attachment Method Thread-in stub
Outer Contact Plating Trimetal

Outer Contact Plating Trimetal
Inner Contact Plating Silver
Attachment Durability 25 cycles
Interface Durability 50 cycles

Connector Retention Tensile Force 2224 N | 500 lbf

Connector Retention Torque 13.56 N-m | 120.00 in lb

Pressurizable No

Dimensions

Nominal Size 1-5/8 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 Depth 1 m

Join the Evolution



Product Specifications



AL7E158-PS

Immersion Test Mating Mated

Immersion Test Method IEC 60529:2001, IP68

Water Jetting Test Mating Mater

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	1.04	35.00
2210-2500 MHz	1.07	30.00

* Footnotes

Immersion Depth Immersion at specified depth for 24 hours

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

