Product Specifications



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AL7DF-PSA

7-16 DIN Female Positive Stop™ for 1-5/8 in cable

General Specifications

Interface 7-16 DIN Female

Body Style Straight

Brand HELIAX® | Positive Stop™

Mounting Angle Straight

Electrical Specifications

Connector Impedance 50 ohm

Operating Frequency Band 0 - 2700 MHz

Cable Impedance 50 ohm

3rd Order IMD, typical -120 dBm @ 910 MHz 3rd Order IMD Test Method Two +43 dBm carriers

RF Operating Voltage, maximum (vrms) 1415.00 V dc Test Voltage 4000 V

Outer Contact Resistance, maximum 1.50 mOhm

Inner Contact Resistance, maximum 0.80 mOhm

Insulation Resistance, minimum 5000 MOhm

Average Power 3.0 kW @ 900 MHz

Peak Power, maximum 40.00 kW
Insertion Loss, typical 0.05 dB
Shielding Effectiveness -130 dB

Product Specifications

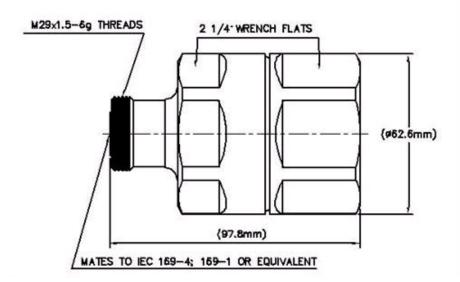


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Outline Drawing



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 Interface Durability Method IEC 61169-4:9.5 Connector Retention Tensile Force 2224 N | 500 lbf

Connector Retention Torque 13.56 N-m | 120.00 in lb Insertion Force 200.17 N | 45.00 lbf Insertion Force Method IEC 61169-1:15.2.4

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
Immersion Test Mating Unmated

Product Specifications



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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-202F, Method 213B, Test Condition C

Thermal Shock Test Method MIL-STD-202F, Method 107G, Test Condition A-1, Low Temperature -55 °C

IEC 60529:2001, IP68

Vibration Test Method IEC 60068-2-6

Corrosion Test Method MIL-STD-1344A, Method 1001.1, Test Condition A

Standard Conditions

Immersion Test Method

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	1.02	39.00
1010-2200 MHz	1.03	38.00
2210-2500 MHz	1.04	35.00

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU

China RoHS SJ/T 11364-2006

ISO 9001:2008

Classification

Compliant by Exemption

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)