

AIZDM-PS

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



CHARACTERISTICS

General Specifications

Interface 7-16 DIN Male

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 -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

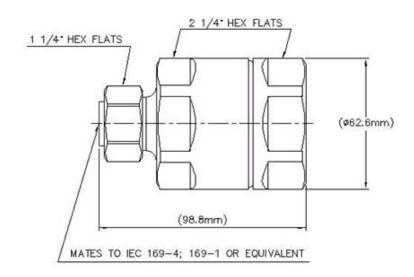
Average Power 3.0 kW @ 900 MHz

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





Outline Drawing



Mechanical Specifications

Outer Contact Attachment Method Ring-flare Inner Contact Attachment Method Captivated Trimetal Outer Contact Plating Inner Contact Plating Silver Attachment Durability 25 cycles Interface Durability 500 cycles Interface Durability Method IEC 61169-4:9.5 2224 N | 500 lbf Connector Retention Tensile Force

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.

Coupling Nut Proof Torque 24.86 N-m | 220.00 in lb Coupling Nut Retention Force 1000.85 N | 225.00 lbf Coupling Nut Retention Force Method MIL-C-39012C-3.25, 4.6.22

Dimensions

Nominal Size 1-5/8 in

 Diameter
 62.84 mm | 2.47 in

 Length
 98.81 mm | 3.89 in

 Weight
 775.00 g | 1.71 lb

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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 MatingUnmated

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-202F, Method 213B, Test Condition C

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

Vibration Test Method IEC 60068-2-6

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)
45-400 MHz	1.02	39.00
401-805 MHz	1.02	39.00
806-960 MHz	1.02	39.00
961-1709 MHz	1.03	36.00
1710-2170 MHz	1.03	36.00
2170-2399 MHz	1.04	35.00
2400-2700 MHz	1.04	34.00

Regulatory Compliance/Certifications

Agency

RoHS 2002/95/EC China RoHS SJ/T 11364-2006 Classification

Compliant by Exemption

Above Maximum Concentration Value (MCV)





* Footnotes

Immersion Depth Immersion

Immersion at specified depth for 24 hours

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AL7DM-PS

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