

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 0 - 2700 MHz Operating Frequency Band 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** 1.50 mOhm Inner Contact Resistance 0.80 mOhm Insulation Resistance, minimum 5000 MOhm

Average Power 3.0 kW @ 900 MHz

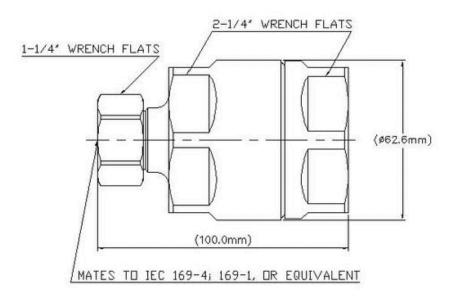
Peak Power, maximum 40.00 kW Insertion Loss, typical 0.05 dB Shielding Effectiveness -130 dB



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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 500 cycles Interface Durability Method IEC 169-4:9.5 Connector Retention Tensile Force 2224 N | 500 lbf

Pressurizable N

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, maximum 62.64 mm | 2.47 in Length 98.81 mm | 3.89 in





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Weight 775.00 g | 1.71 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

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

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



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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)

