Product Specifications







AL5NM-PSA

Type N Male Positive Stop™ for 7/8 in AL5-50 and AVA5-50 cable

General Specifications

Interface N Male Body Style Straight

Brand HELIAX® | Positive Stop™

Mounting Angle Straight

Electrical Specifications

Connector Impedance 50 ohm

Operating Frequency Band 0 – 5200 MHz

Cable Impedance 50 ohm

3rd Order IMD, typical -116 dBm @ 910 MHz 3rd Order IMD Test Method Two +43 dBm carriers

RF Operating Voltage, maximum (vrms) 707.00 V
dc Test Voltage 2000 V
Outer Contact Resistance, maximum 0.30 mOhm
Inner Contact Resistance, maximum 2.00 mOhm
Insulation Resistance, minimum 5000 MOhm

Average Power 0.6 kW @ 900 MHz

Peak Power, maximum 10.00 kW
Insertion Loss, typical 0.05 dB
Shielding Effectiveness -130 dB

Product Specifications



AL5NM-PSA



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 61169-16:9.5

Connector Retention Tensile Force 1334 N | 300 lbf

Connector Retention Torque 8.13 N-m | 72.00 in lb

Insertion Force 66.72 N | 15.00 lbf

Insertion Force Method MIL-C-39012C-3.12, 4.6.9

Pressurizable

Coupling Nut Proof Torque 4.52 N-m | 40.00 in lb

Coupling Nut Retention Force 444.82 N | 100.00 lbf

Coupling Nut Retention Force Method MIL-C-39012C-3.25, 4.6.22

Dimensions

Nominal Size 7/8 in

 Diameter
 37.20 mm | 1.46 in

 Length
 63.14 mm | 2.49 in

 Weight
 180.00 g | 0.40 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 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

Product Specifications



AL5NM-PSA



Average Power, Ambient Temperature 40 °C | 104 °F

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)	
50-1000 MHz	1.02	39.00	
1010-2200 MHz	1.03	38.00	
2210-3000 MHz	1.04	35.00	
3010-4000 MHz	1.07	29.00	
4010-5200 MHz	1.13	24.00	

Regulatory Compliance/Certifications

Agency

Classification

RoHS 2002/95/EC

Compliant by Exemption

China RoHS SJ/T 11364-2006

Above Maximum Concentration Value (MCV)

ISO 9001:2008 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√ freq (GHz) (not applicable for elliptical waveguide)