

# Product Specifications



## AL7NM-PS

Type N Male Positive Stop™ for 1-5/8 in cable



## CHARACTERISTICS

### General Specifications

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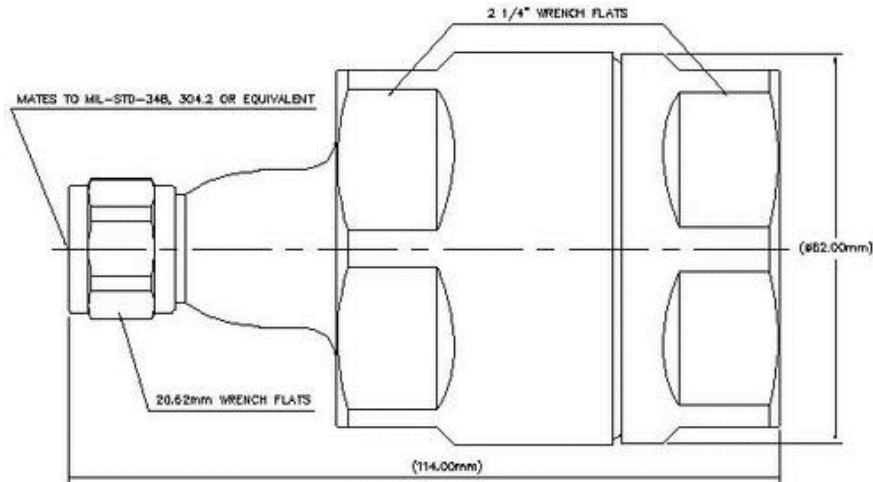
Interface	N Male
Body Style	Straight
Mounting Angle	Straight

### Electrical Specifications

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Connector Impedance	50 ohm
Operating Frequency Band	0 – 2700 MHz
3rd Order IMD Test Method	Two +43 dBm Carriers
Average Power	0.6 kW @ 900 MHz
Cable Impedance	50 ohm
dc Test Voltage	2000 V
Inner Contact Resistance	2.00 mOhm
Insertion Loss, typical	0.05 dB
Insulation Resistance, minimum	5000 MOhm
Outer Contact Resistance	0.30 mOhm
Peak Power, maximum	10.00 kW
RF Operating Voltage, maximum (vrms)	707.00 V
Shielding Effectiveness	-130 dB
3rd Order IMD	-116 dBm @ 910 MHz

## Outline Drawing



## Mechanical Specifications

Outer Contact Attachment Method	Ring-flare
Attachment Durability	25 cycles
Connector Retention Tensile Force	500 lbf   2224 N
Connector Retention Torque	120 in lb   14 N·m
Coupling Nut Proof Torque	40.00 in lb   4.52 N·m
Coupling Nut Retention Force	100.00 lbf   444.82 N
Coupling Nut Retention Force Method	MIL-C-39012C-3.25, 4.6.22
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Insertion Force	15.00 lbf   66.72 N
Insertion Force Method	MIL-C-39012C-3.12, 4.6.9
Interface Durability	500 cycles
Interface Durability Method	IEC 169-16:9.5
Outer Contact Plating	Trimetal
Pressurizable	No

## Dimensions

Nominal Size	1-5/8 in
Diameter, maximum	2.47 in   62.64 mm
Length	4.47 in   113.54 mm
Weight	768.00 g   1.69 lb

## Environmental Specifications

Corrosion Test Method	MIL-STD-1344A, Method 1001.1, Test Condition A
Immersion Depth	1 m

# Product Specifications



Immersion Test Mating	Unmated
Immersion Test Method	IEC 60529:2001, IP68
Mechanical Shock Test Method	MIL-STD-202F, Method 213B, Test Condition C
Moisture Resistance Test Method	MIL-STD-202F, Method 106F
Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Thermal Shock Test Method	MIL-STD-202F, Method 107G, Test Condition A-1, Low Temperature -55 °C
Vibration Test Method	IEC 60068-2-6
Water Jetting Test Mating	Unmated
Water Jetting Test Method	IEC 60529:2001, IP66

## Standard Conditions

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Attenuation, Ambient Temperature	20 °C   68 °F
Average Power, Ambient Temperature	40 °C   104 °F

## Return Loss

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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	37.00
1710–2170 MHz	1.04	35.00
2170–2399 MHz	1.07	30.00
2400–2700 MHz	1.08	28.00

## \* Footnotes

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Immersion Depth	Immersion at specified depth for 24 hours
Insertion Loss, typical	0.05 √ f(freq (GHz)) (not applicable for Elliptical Waveguide)