## **RL4TNM-PS**

#### Type N Male Positive Stop™ for 1/2 in RXL RADIAX® Radiating cable



#### **OBSOLETE**

This product was discontinued on: April 18, 2016

#### **Product Classification**

**Product Type** Wireless and radiating connector

Product Brand RADIAX®

#### General Specifications

Body Style Straight

Cable Family RXL4

Inner Contact Attachment Method Captivated

 Inner Contact Plating
 Silver

 Interface
 N Male

 Mounting Angle
 Straight

 Outer Contact Attachment Method
 Ring-flare

 Outer Contact Plating
 Trimetal

#### **Dimensions**

Pressurizable

 Length
 77.98 mm | 3.07 in

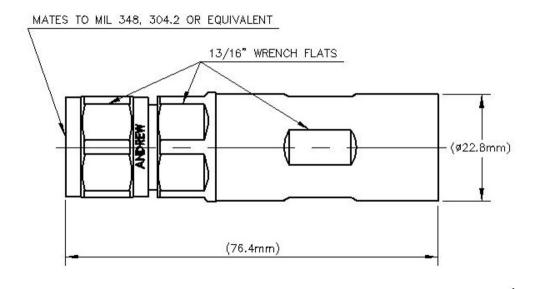
 Diameter
 22.35 mm | 0.88 in

Nominal Size 1/2 in

## Outline Drawing



No



### **Electrical Specifications**

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

Insertion Loss Coefficient, typical 0.05

**Average Power at Frequency** 0.6 kW @ 900 MHz

Cable Impedance 50 ohm **Connector Impedance** 50 ohm 2000 V dc Test Voltage Inner Contact Resistance, maximum 2 m0hm Insulation Resistance, minimum 5000 MOhm **Operating Frequency Band** 0 - 8800 MHz **Outer Contact Resistance, maximum** 0.3 mOhm Peak Power, maximum 10 kW

Peak Power, maximum 10 kW
RF Operating Voltage, maximum (vrms) 707 V
Shielding Effectiveness -130 dB

#### VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

**45–1000 MHz** 1.023 38.89

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1010-2200 MHz	1.029	36.9
2210-3000 MHz	1.046	32.96
3010-4000 MHz	1.074	28.95
4010-6000 MHz	1.119	25.01
6010-8000 MHz	1.152	23.02

#### Mechanical Specifications

Attachment Durability 25 cycles

**Connector Retention Tensile Force** 889.64 N | 200 lbf

**Connector Retention Torque** 5.42 N-m | 47.998 in lb

Coupling Nut Proof Torque 176.26 N-m | 1,559.997 in lb

**Coupling Nut Retention Force** 444.82 N | 100 lbf

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

**Insertion Force** 66.72 N | 15 lbf

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

Interface Durability 500 cycles

**Interface Durability Method** IEC 61169-16:9.5

Mechanical Shock Test Method MIL-STD-202, Method 213, Test Condition I

#### **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)

Attenuation, Ambient Temperature  $20 \, ^{\circ}\text{C} \mid 68 \, ^{\circ}\text{F}$ Average Power, Ambient Temperature  $40 \, ^{\circ}\text{C} \mid 104 \, ^{\circ}\text{F}$ 

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

**Immersion Depth** 1 m

Immersion Test Mating Unmated

**Immersion Test Method** IEC 60529:2001, IP68

Moisture Resistance Test Method MIL-STD-202F, Method 106F

**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

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### Packaging and Weights

Weight, net  $108.04~g~\mid~0.238~lb$ 

\* Footnotes

**Insertion Loss Coefficient, typical** 0.05√ freq (GHz) (not applicable for elliptical waveguide)

**Immersion Depth** Immersion at specified depth for 24 hours

