R7PNF-PS



Type N Female for 1-5/8 in RCT RADIAX® Radiating cable

OBSOLETE

This product was discontinued on: June 30, 2014

Replaced By:

R7PNF Type N Female Low PIM Positive Stop™ for 1-5/8 in RCT RADIAX® Radiating cable

Product Classification

Product Type Wireless and radiating connector

Product Brand RADIAX®

General Specifications

Body Style Straight
Cable Family RCT7

Inner Contact Attachment Method Thread-in stub

Inner Contact Plating Gold

Interface N Female

Mounting Angle Straight

Outer Contact Attachment Method Clamp

Outer Contact Plating Trimetal

Pressurizable No

Dimensions

 Length
 105.66 mm | 4.16 in

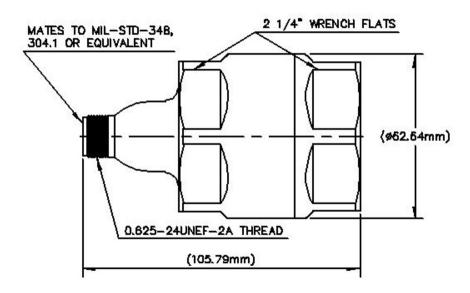
 Diameter
 62.74 mm | 2.47 in

Nominal Size 1-5/8 in

COMMSCOPE°

R7PNF-PS

Outline Drawing



Electrical Specifications

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 M0hm **Operating Frequency Band** 0 - 2700 MHz **Outer Contact Resistance, maximum** 0.3 m0hm Peak Power, maximum 10 kW

VSWR/Return Loss

RF Operating Voltage, maximum (vrms)

Frequency Band	VSWR	Return Loss (dB)
50-1000 MHz	1.065	30.04
1010-2200 MHz	1.065	30.04
2210-2700 MHz	1.083	27.99

707 V

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Mechanical Specifications

Attachment Durability 25 cycles

Connector Retention Tensile Force 889.64 N | 200 lbf

Connector Retention Torque 4.52 N-m | 39.997 in lb

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-202F, Method 213B, Test Condition C

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

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

Packaging and Weights

Weight, net 832.66 g | 1.836 lb

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system



* Footnotes

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

