

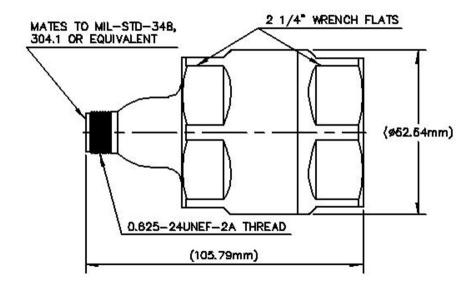
Type N Female Low PIM Positive Stop™ for 1-5/8 in RCT RADIAX® Radiating cable

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
Outline Drawing	

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Electrical Specifications

-107 dBm @ 910 MHz
Two +43 dBm carriers
0.05
0.6 kW @ 900 MHz
50 ohm
50 ohm
2000 V
2 mOhm
5000 MOhm
0 – 2700 MHz
0.3 m0hm
10 kW
707 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
50-1000 MHz	1.065	30.04
1010–2200 MHz	1.065	30.04

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R7PNF

2210–2700 MHz	1.083	27.99
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 °C 68 °F
Average Power, Ambient Temperature	40 °C 104 °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 $^\circ\mathrm{C}$

Packaging and Weights

Weight, net

833.95 g | 1.839 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

* Footnotes

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

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