

# R7PHF



Type 4.3-10 Female Low PIM for 1-5/8 in RCT RADIAX® Radiating cable

**OBSOLETE**  
This product was discontinued on: December 30, 2024

## Product Classification

Product Type	Wireless and radiating connector
Product Brand	RADIAX®

## General Specifications

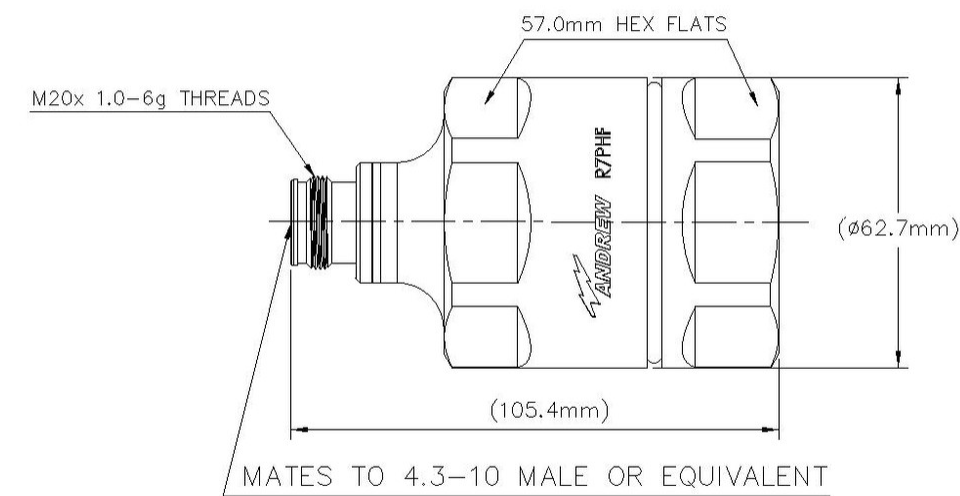
Body Style	Straight
Cable Family	RCT4
Inner Contact Attachment Method	Thread-in stub
Inner Contact Plating	Silver
Interface	4.3-10 Female
Mounting Angle	Straight
Outer Contact Attachment Method	Clamp
Outer Contact Plating	Trimetal

## Dimensions

Length	105.41 mm   4.15 in
Diameter	62.74 mm   2.47 in
Nominal Size	1-5/8 in

## Outline Drawing

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## Electrical Specifications

3rd Order IMD at Frequency	-155 -dBc @ 1800 MHz   -155 -dBc @ 700 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
Insertion Loss Coefficient, typical	0.05
Average Power at Frequency	0.5 kW @ 2,000 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	2500 V
Inner Contact Resistance, maximum	1 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 2700 MHz
Outer Contact Resistance, maximum	1 mOhm
Peak Power, maximum	15 kW
RF Operating Voltage, maximum (vrms)	884 V

## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
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50–1000 MHz	1.039	34.37
1010–2200 MHz	1.054	31.6
2200–2700 MHz	1.054	31.6

## Mechanical Specifications

Attachment Durability	25 cycles
Connector Retention Tensile Force	889.64 N   200 lbf
Connector Retention Torque	4.52 N-m   40.014 in lb
Interface Durability	100 cycles
Mechanical Shock Test Method	IEC 60068-2-27

## 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	IEC 60068-2-11
Moisture Resistance Test Method	IEC 60068-2-3
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6

## Packaging and Weights

Weight, net	832.92 g   1.836 lb
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## 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 <a href="http://www.andrew.com/ProductCompliance">www.andrew.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant/Exempted



### \* Footnotes

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**Insertion Loss Coefficient, typical**  $0.05\sqrt{\text{freq (GHz)}}$  (not applicable for elliptical waveguide)