



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

## Product Classification

<b>Brand</b>	RADIAX®
<b>Product Type</b>	Wireless and radiating connector

## General Specifications

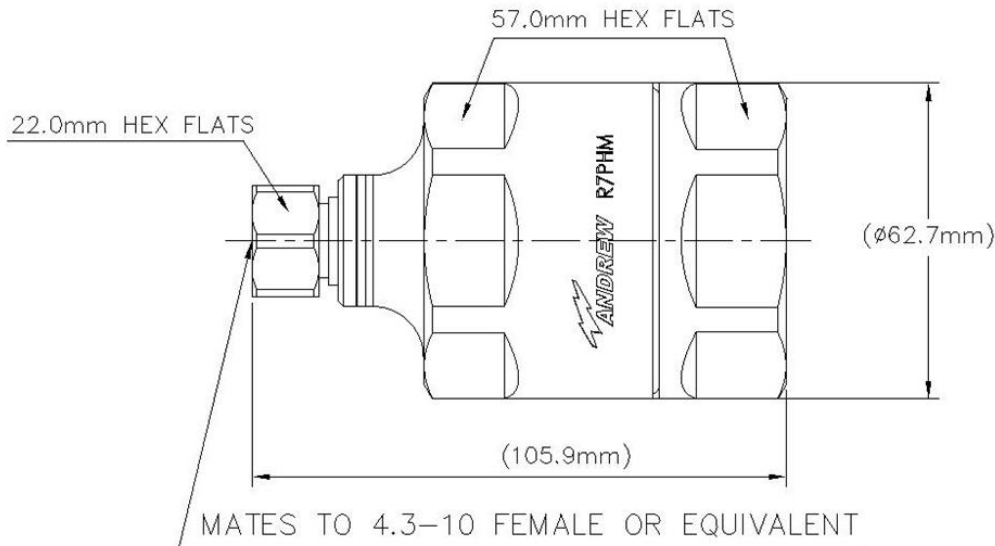
<b>Interface</b>	4.3-10 Male
<b>Body Style</b>	Straight
<b>Mounting Angle</b>	Straight

## Electrical Specifications

<b>Connector Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	0 – 2700 MHz
<b>Average Power at Frequency</b>	0.5 kW @ 2,000 MHz
<b>Cable Impedance</b>	50 ohm
<b>3rd Order IMD, typical</b>	-155 -dBc @ 1800 MHz   -155 -dBc @ 700 MHz
<b>3rd Order IMD Test Method</b>	Two +43 dBm carriers
<b>RF Operating Voltage, maximum (vrms)</b>	884.00 V
<b>dc Test Voltage</b>	2500 V
<b>Outer Contact Resistance, maximum</b>	1.00 mOhm
<b>Inner Contact Resistance, maximum</b>	1.00 mOhm
<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Peak Power, maximum</b>	15.00 kW
<b>Insertion Loss, typical</b>	0.05 dB

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## Outline Drawing



## Mechanical Specifications

<b>Outer Contact Attachment Method</b>	Clamp
<b>Inner Contact Attachment Method</b>	Thread-in stub
<b>Outer Contact Plating</b>	Trimetal
<b>Inner Contact Plating</b>	Silver
<b>Attachment Durability</b>	25 cycles
<b>Interface Durability</b>	500 cycles
<b>Interface Durability Method</b>	IEC 61169-16:9.5
<b>Connector Retention Tensile Force</b>	890 N   200 lbf
<b>Connector Retention Torque</b>	4.52 N-m   40.00 in lb
<b>Coupling Nut Proof Torque</b>	10.00 N-m   88.50 in lb
<b>Coupling Nut Retention Force</b>	450.00 N   101.16 lbf

## Dimensions

<b>Nominal Size</b>	1-5/8 in
<b>Diameter</b>	62.65 mm   2.47 in

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**Length** 105.94 mm | 4.17 in  
**Weight** 874.99 g | 1.93 lb

## 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)  
**Moisture Resistance Test Method** IEC 60068-2-3  
**Mechanical Shock Test Method** IEC 60068-2-27  
**Thermal Shock Test Method** IEC 60068-2-14  
**Vibration Test Method** IEC 60068-2-6  
**Corrosion Test Method** IEC 60068-2-11

## Standard Conditions

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

## Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
45–1000 MHz	1.02	39.20
1010–2000 MHz	1.02	40.20
2010–2400 MHz	1.03	37.00

## Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Above Maximum Concentration Value (MCV)



## \* Footnotes

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