

# Low Profile Tri-band Wi-Fi Access Point Antenna

Wi-Fi Antennas - Omnidirectional

PCTMI245871-RPC



## Description

Omnidirectional antenna for indoor or outdoor applications

## Technologies

- Wi-Fi
- Wi-Fi 6e
- Wi-Fi 7

## Features

- Outstanding performance in a very-low profile housing
- White, UL V0 plastic housing
- Built directly on an RPTNC connector for easy use on access points
- Only 3.3 inches long including the connector



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### Wi-Fi Antennas - Omnidirectional

The PCTMI245871-RPC is a low-profile antenna that is optimized for operation with reverse polarity TNC compatible access points operating over all the Wi-Fi frequency bands. The antenna covers all the 2.4 GHz, 5 GHz and 6 GHz frequency bands. The rugged, UV resistant housing makes it suitable for use in a wide variety of IIoT applications, including office LAN environments, factory floors and outdoor Wi-Fi venues.

#### Features

- Omnidirectional antenna for indoor or outdoor use
- Outstanding performance in a very-low profile housing
- White, UL V0 plastic housing
- Built directly on an RPTNC connector for easy use on access points
- 3.3 inches long including the connector

#### Applications

Wide variety of Industrial IoT applications, including:

- Office LAN environments
- Factory floors
- Indoor or outdoor Wi-Fi networks

#### Certifications



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### Standard Configurations

Model Number	Connector Type	Mount
PCTMI245871-RPC	Reverse Polarity TNC	Direct Access Point Mount

### Electrical Specifications – RF Antennas

Operational Frequency Ranges	2400 - 2500 MHz	5150 - 5925 MHz	5925 - 6875 MHz	6875 - 7125 MHz
Antenna Type	Omnidirectional			
Nominal Input Impedance	50 Ω			
VSWR	< 2.0 : 1			
Polarization	Vertical			
Peak Gain	1 dBi	2 dBi	3 dBi	4 dBi
Elevation Plane Beamwidth	90°	75°	70°	60°

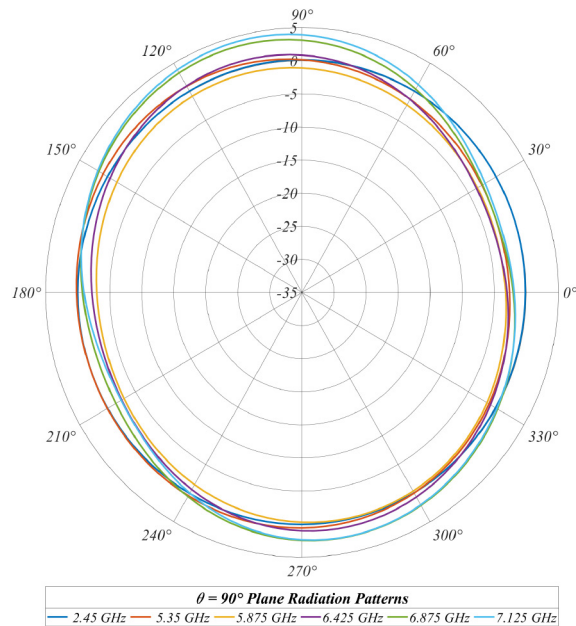
### Mechanical and Environmental Specifications

Connector Type	Male RP-TNC
Diameter	0.78 in. (20 mm)
Height	3.3 in. (83 mm)
Weight	1.3 oz (37 grams)
Operating Temperature	-30 °C to +70 °C
Storage Temperature	-40 °C to +85 °C
UV Stability	ASTM D-4674 Method I

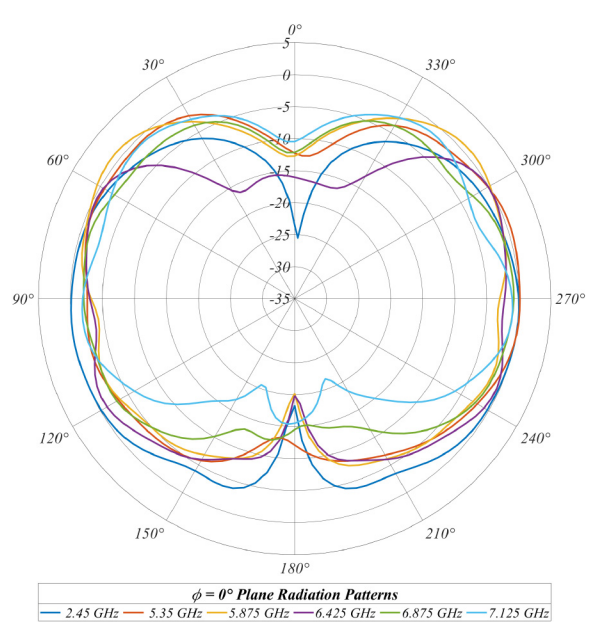
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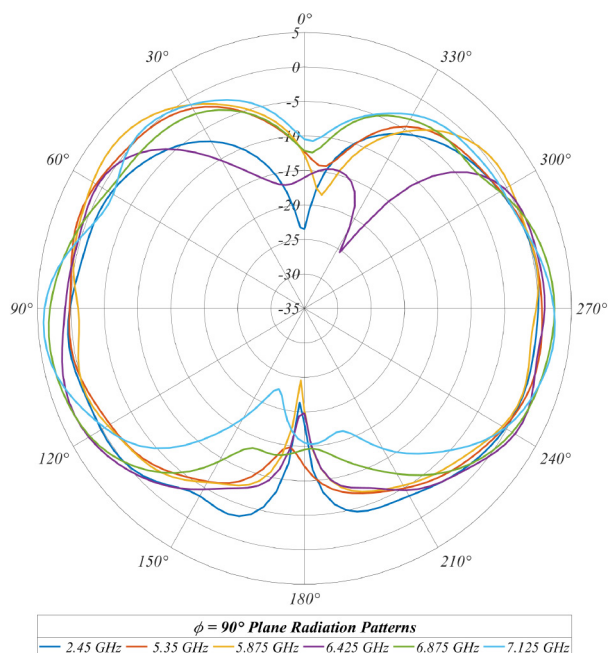
**Azimuth Plane: Theta = 90°**



**Elevation Plane: Phi = 0°**



**Elevation Plane: Phi = 90°**



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### **Solving Complex Wireless Challenges**

PCTEL, an Amphenol company, is a leading global provider of wireless technology solutions, including purpose-built Industrial IoT devices, antenna systems, and test and measurement products. Trusted by our customers for decades, we solve complex wireless challenges to help organizations stay connected, transform, and grow.



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