

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



Low Profile Tri-band Wi-Fi Access Point Antenna

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



Low Profile Tri-band Wi-Fi Access Point Antenna

Wi-Fi Antennas - Omnidirectional

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°

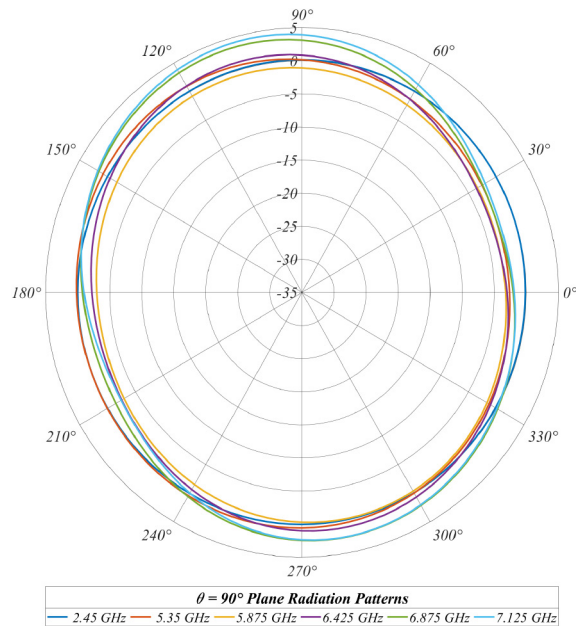
Mechanical and Environmental Specifications

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

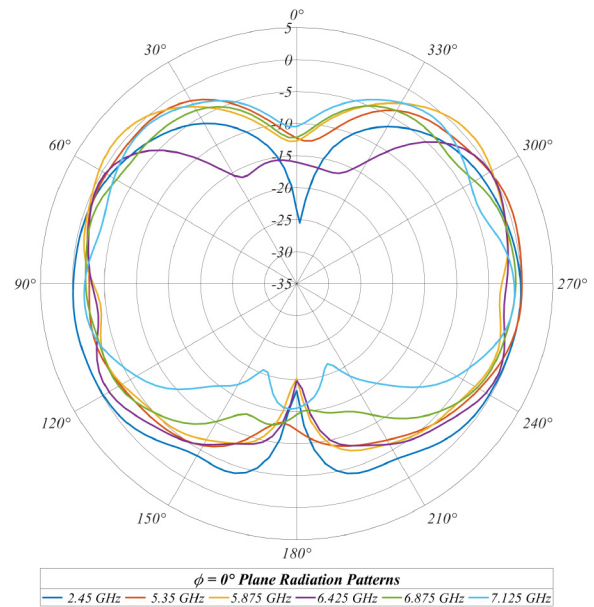
Low Profile Tri-band Wi-Fi Access Point Antenna

Wi-Fi Antennas - Omnidirectional

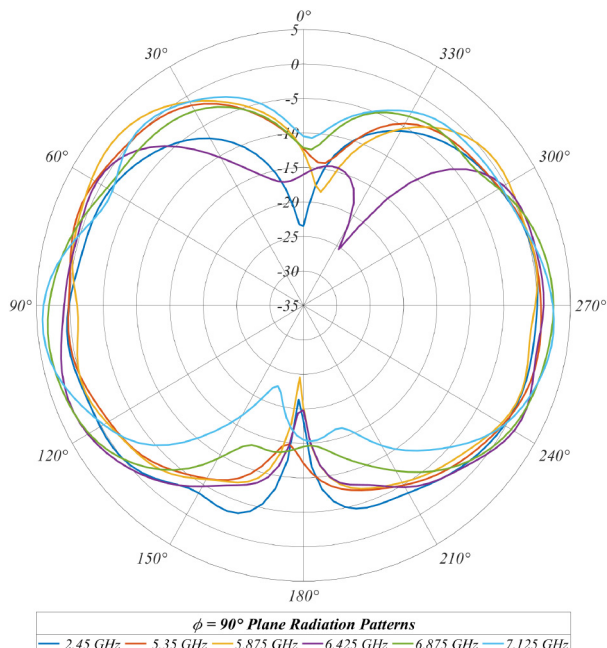
Azimuth Plane: Theta = 90°



Elevation Plane: Phi = 0°



Elevation Plane: Phi = 90°



CONTACT US

**For more information about
this product contact your
sales representative or visit
> pctel.com/antenna-products**

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.



PCTEL, Inc.

T: +1 630 372 6800 | pctel.com

Specifications subject to change without notice. PCTEL® is a registered trademarks of PCTEL, Inc. ©2025 PCTEL, Inc. All rights reserved. (August 2025)