

3 dBi DualBand Embedded PCB Antenna 2,400-5,900 MHz UMCX Connector



Antennas Technical Data Sheet

PE51214

Features

- Highly efficient printed circuit board (PCB) design
- Designed for omni-directional applications
- Low profile, compact size
- IPEX, U.FL, UMCX compatible connector

Applications

- · Integrate into self contained wireless equipment
- · Embedded applications requiring integration flexibility
- 2.4 GHz & 5 GHz WLAN

Description

The PE51214 is a dual band 2.4/5.8 GHz omni-directional antenna designed to directly integrate into devices requiring wireless capability. By embedding these antennas directly into a device, the need for external antennas is eliminated. The omni-directional design of the PE51214 makes it ideal for multipoint and mobile wireless systems since it provides 360 degree of coverage. This antenna features a 1.13mm coax lead terminated with a U.FL/IPX connector. Custom cable lengths and connector options are also available.

Configuration

Design
Application Band
Band Type
Radiation Pattern
Polarization
Cable Type
Cable Length
Connector Type
Number of Ports

PCB
WLAN||MIMO
Dual
Omni Directional
Vertical or Horizontal
1.13mm
3.38 in [85.85 mm]
UMCX Plug

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,400		5,900	GHz
Input VSWR			2:1	
Impedance		50		Ohms
Gain		3		dBi
Gain			6	dBi

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2,400-2,500	5,100-5,900				MHz
Gain	3	6				dBi
Horizontal Beam Width	360	226				Degees
Vertical Beam Width	55	54				Degees
Maximum Input Power	10					Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 3 dBi DualBand Embedded PCB Antenna 2,400-5,900 MHz UMCX Connector PE51214

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Mechanical Specifications

Size

 Overall Length
 1.6 in [40.64 mm]

 Width
 0.7 in [17.78 mm]

 Height
 0.02 in [0.51 mm]

 Weight
 0.06 lbs [27.22 g]

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

3 dBi DualBand Embedded PCB Antenna 2,400-5,900 MHz UMCX Connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/dual-antenna-2.4-5.9-ghz-3-dbi-gain-umcx-pe51214-p.aspx

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