

4.5 dBi DualBand Embedded PCB Antenna 4,900-5,900 MHz UMCX Connector

PE51215

Antennas Technical Data Sheet

Features

- · Highly efficient printed circuit board (PCB) design
- Designed for omni-directional applications

Applications

- · Integrate into self contained wireless equipment
- Embedded applications requiring integration flexibility
- · Low profile, compact size
- IPEX, U.FL, UMCX compatible connector
- 4.9 GHz & 5 GHz WLAN

Description

The PE51215 is a wide band 4.9-5.8 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 PE51215 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

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Design	PCB
Application Band	WLAN Public Safety
Band Type	Dual
Radiation Pattern	Omni Directional
Polarization	Horizontal
Cable Type	1.13mm
Cable Length	3.38 in [85.85 mm]
Connector Type	UMCX Plug
Number of Ports	1

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	4,900		5,900	MHz
Impedance		50		Ohms
Gain		4.5		dBi
Gain		4.5		uDi

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	4.9 to 5.9					GHz
Gain	4.5					dBi
Horizontal Beam Width	360					Degrees
Vertical Beam Width	55					Degrees

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 4.5 dBi DualBand Embedded PCB Antenna 4,900-5,900 MHz UMCX Connector PE51215

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com



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Mechanical Specifications

Size Overall Length Width Height Weight

0.69 in [17.53 mm] 0.38 in [9.65 mm] 0.03 in [0.76 mm] 0.06 lbs [27.22 g]

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

4.5 dBi DualBand Embedded PCB Antenna 4,900-5,900 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-4.9-5.9-ghz-4.5-dbi-gain-umcx-pe51215-p.aspx

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PE51215 CAD Drawing 4.5 dBi DualBand Embedded PCB Antenna 4,900-5,900 MHz UMCX Connector

