

2 dBi Embedded PCB Antenna 2,400-2,500 MHz UMCX Connector

PE51213

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
- 2.4 GHz

Description

The PE51213 is a 2.4 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 PE51213 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

Singulation	
Design	PCB
Application Band	WLAN
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Vertical or 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	2,400		2,500	GHz
Input VSWR			2.3:1	
Impedance		50		Ohms
Gain		2		dBi

Specifications by Band

Band 1	Band 2	Band 3	Band 4	Band 5	Units
2,400-2,500					MHz
2					dBi
360					Degees
50					Degees
	2,400-2,500 2 360	2,400-2,500 2 360	2,400-2,500 2 360	2,400-2,500 2 360	2,400-2,500 2 360

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2 dBi Embedded PCB Antenna 2,400-2,500 MHz UMCX Connector PE51213

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	

1.7 in [43.18 mm] 1.4 in [35.56 mm] 0.04 in [1.02 mm] 0.06 lbs [27.22 g]

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

2 dBi Embedded PCB Antenna 2,400-2,500 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/single-antenna-2.4-2.5-ghz-2-dbi-gain-umcx-pe51213-p.aspx

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PE51213 CAD Drawing 2 dBi Embedded PCB Antenna 2,400-2,500 MHz UMCX Connector

