

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



Antennas Technical Data Sheet

PE51210

Features

- · Highly efficient flex 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 WLAN and Bluetooth

Description

The PE51210 is an omnidirectional antenna designed to integrate into devices requiring wireless capability. By embedding these antennas directly into a device, the need for external antennas is eliminated. The omni-directional radiation pattern makes it ideal for multipoint and mobile wireless systems.

Configuration

Design PCB
Band Type Single

Radiation Pattern Omni Directional

Polarization Vertical
Cable Type 1.13mm

Cable Length 3.937 in [100 mm]
Connector Type UMCX Plug

Number of Ports 1
Housing Material and Plating Polymer

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,400		2,500	GHz
Input VSWR			2:1	
Impedance		50		Ohms
Gain		3.5		dBi
Input Power			5	Watts

Mechanical Specifications

Housing Material Polymer

Size

 Overall Length
 1.8503937 in [47 mm]

 Width
 0.26377953 in [6.7 mm]

 Height
 0.00629921 in [0.16 mm]

Environmental Specifications

Temperature

Operating Range -30 to +75 deg C Storage Range -40 to +85 deg C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 3.5 dBi Embedded PCB Antenna 2,400-2,500 MHz UMCX Connector PE51210

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

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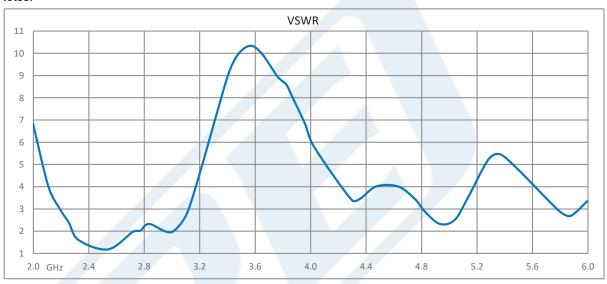
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Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



3.5 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-3.5-dbi-gain-umcx-pe51210-p.aspx

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