

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



# Antennas Technical Data Sheet

PE51209

#### **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 PE51209 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 Type

Cable Length

Connector Type

Number of Ports

1.131111

3.937 in [100 mm]

UMCX Plug

1

Housing Material and Plating

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,400		2,500	GHz
Input VSWR			2:1	
Impedance		50		Ohms
Gain		2.6		dBi
Input Power			5	Watts

Polymer

#### **Mechanical Specifications**

Housing Material Polymer

Size

 Overall Length
 1.06299213 in [27 mm]

 Width
 0.70866142 in [18 mm]

 Height
 0.00629921 in [0.16 mm]

## **Environmental Specifications**

**Temperature** 

Operating Range -40 to +85 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: 2.6 dBi Embedded PCB Antenna 2,400-2,500 MHz UMCX Connector PE51209

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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Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:



2.6 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2.6 dBi Embedded PCB Antenna 2,400-2,500 MHz UMCX Connector PE51209

URL: https://www.pasternack.com/single-antenna-2.4-2.5-ghz-2.6-dbi-gain-umcx-pe51209-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

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