



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

Antennas Technical Data Sheet

PE51205

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 WLAN and Bluetooth

Description

The PE51205 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 |
| Cable Type | 1.13mm |
| Cable Length | 3.937 in [100 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 | | | 2:1 | |
| Impedance | | 50 | | Ohms |
| Gain | | 3 | | dBi |

Mechanical Specifications

| | |
|----------------|-----------------------|
| Size | |
| Overall Length | 1.047244 in [26.6 mm] |
| Width | 0.354331 in [9 mm] |

Environmental Specifications

| | |
|--------------------|------------------|
| Temperature | |
| Operating Range | -20 to +65 deg C |

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3 dBi Embedded PCB Antenna 2,400-2,500 MHz UMCX Connector PE51205](#)



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3 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: [3 dBi Embedded PCB Antenna 2,400-2,500 MHz UMCX Connector PE51205](https://www.pasternack.com/single-antenna-2.4-2.5-ghz-3-dbi-gain-umcx-pe51205-p.aspx)

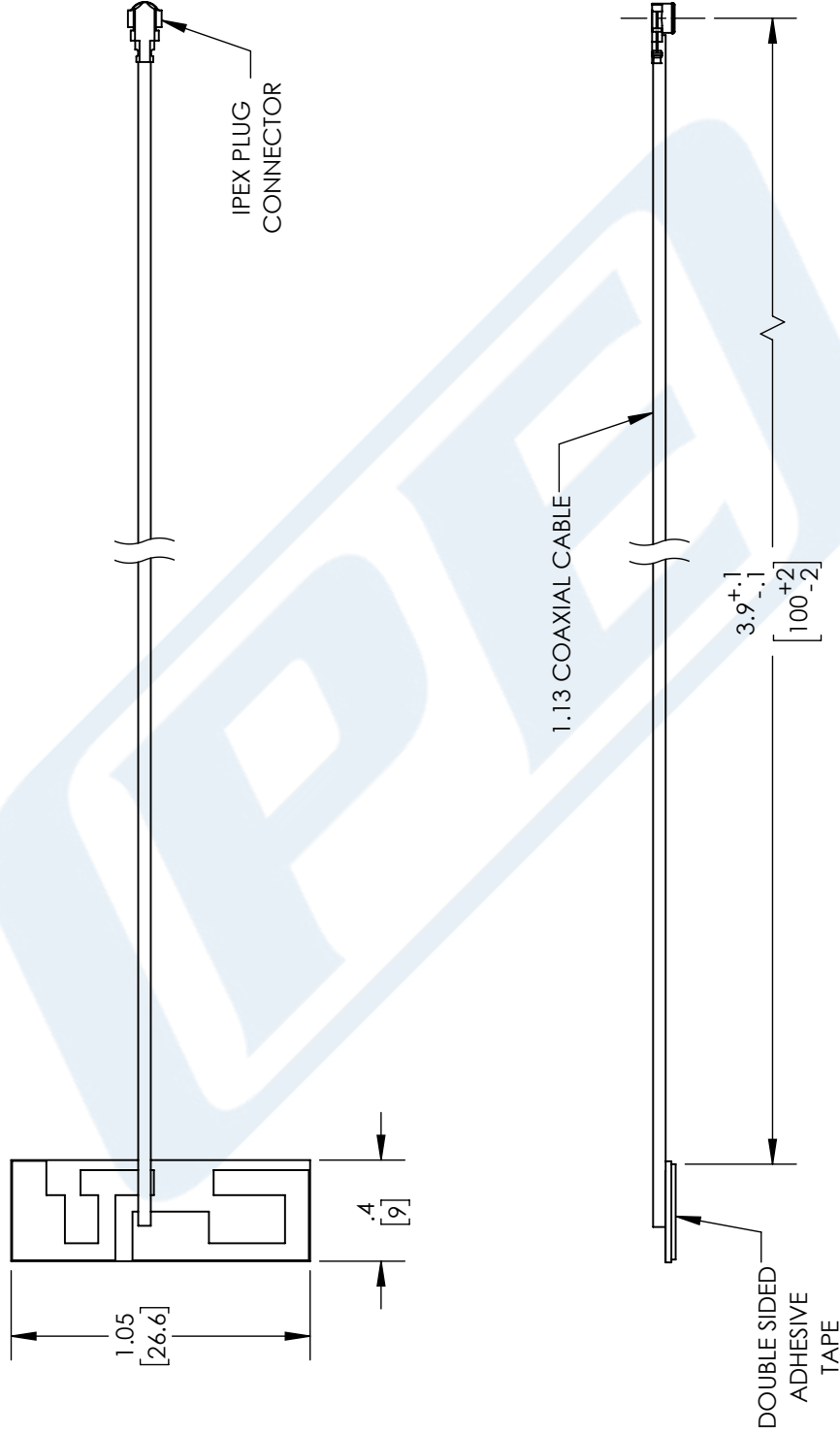
URL: <https://www.pasternack.com/single-antenna-2.4-2.5-ghz-3-dbi-gain-umcx-pe51205-p.aspx>

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PE51205 CAD Drawing

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

| REVISIONS | | | |
|-----------|-----------------|------------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 06/18/2020 | KHIETPAS |



| | | | |
|--|--|--------------|---|
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| | <p>SIZE A</p> <p>CAGE CODE 53919</p> <p>DRAWN BY SLI</p> <p>ITEM NO. PE51205</p> | <p>REV A</p> | |

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