



## 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
<b>Size</b>	
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](#)



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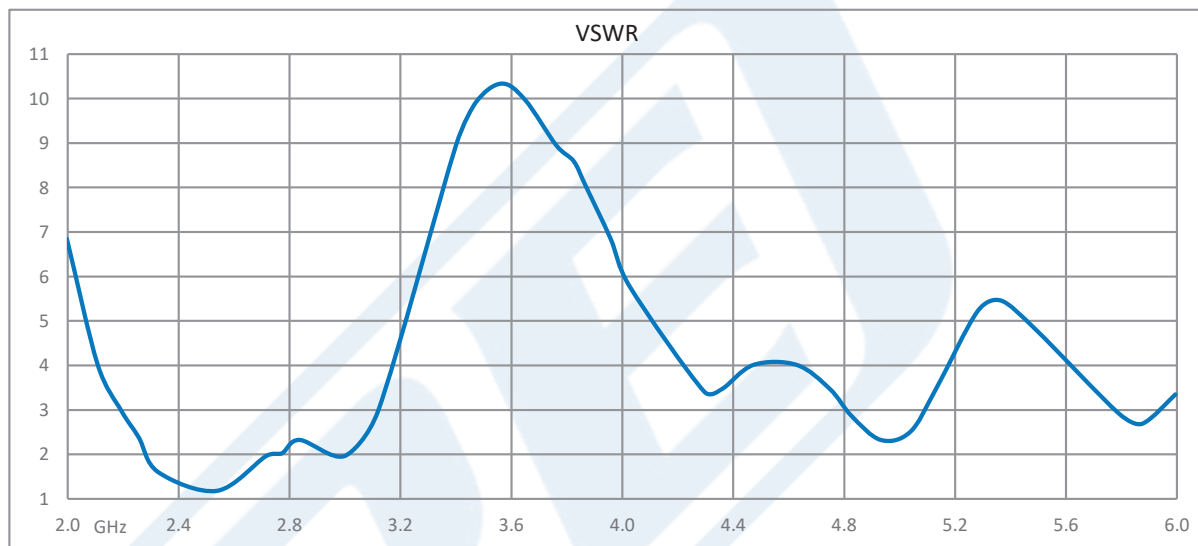
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**Compliance Certifications** (see [product page](#) for current document)

**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.

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](#)

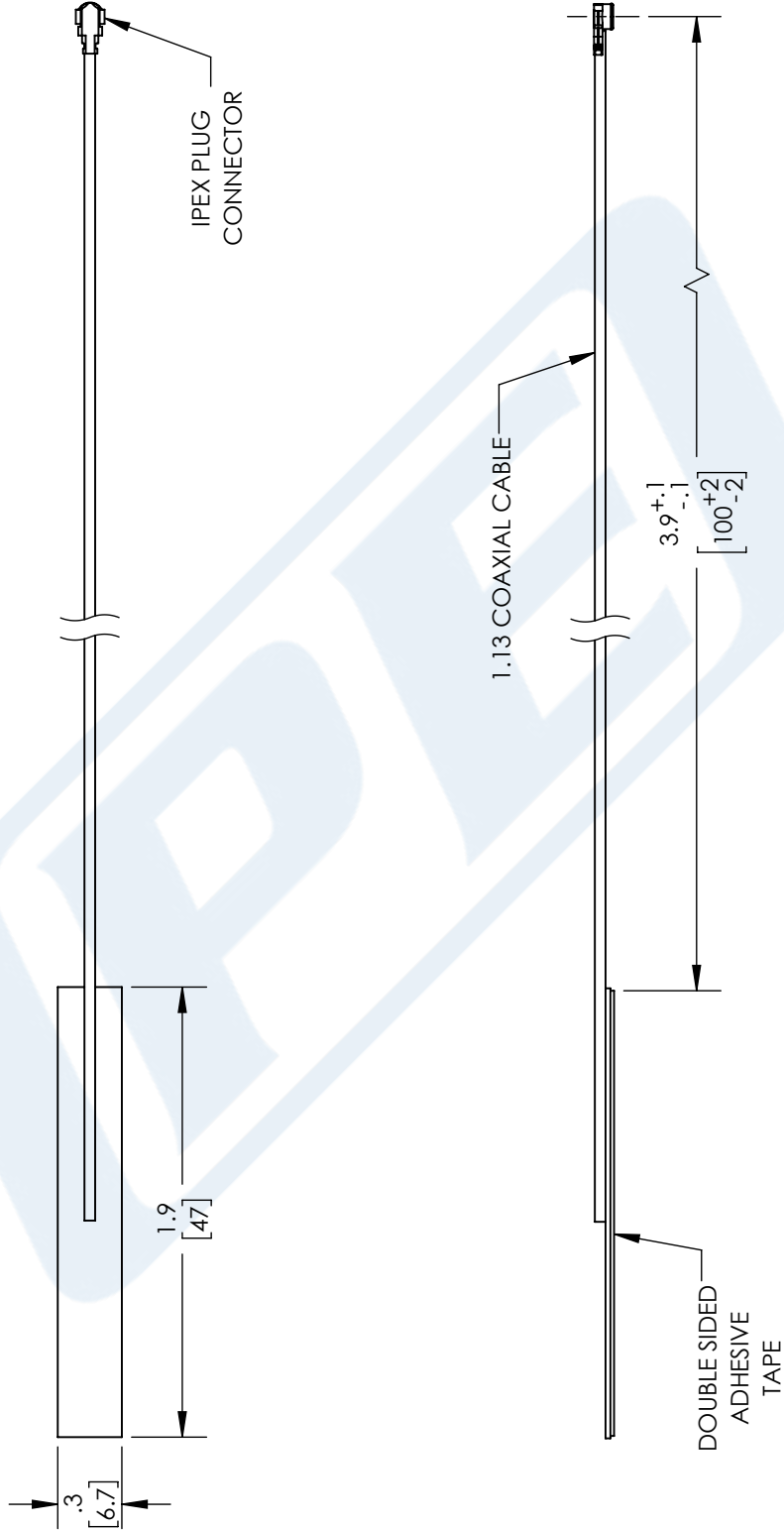
URL: <https://www.pasternack.com/single-antenna-2.4-2.5-ghz-3.5-dbi-gain-umcx-pe51210-p.aspx>

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# PE51210 CAD Drawing

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



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