



2 dBi Embedded PCB Antenna 860-960 MHz UMCX Connector

Antennas Technical Data Sheet

PE51216

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
- 800 MHz & 900 MHz

Description

The PE51216 is a 900 MHz 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 PE51216 makes it ideal for multipoint and mobile wireless systems since it provides 360° 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

Design	PCB
Application Band	RFID LPWAN ISM
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Vertical
Cable Type	1.13mm
Cable Length	3 in [76.2 mm]
Connector Type	UMCX Plug
Number of Ports	1

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	860		960	MHz
Input VSWR		3:1	3:1	
Impedance		50		Ohms
Gain		2		dBi

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	860-960					MHz
Horizontal Beam Width	360					Degees
Vertical Beam Width	58					Degees

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 860-960 MHz UMCX Connector PE51216](#)



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Mechanical Specifications

Radome Material	ABS
Size	
Overall Length	2.11 in [53.59 mm]
Width	1.61 in [40.89 mm]
Height	0.06 in [1.52 mm]
Weight	0.06 lbs [27.22 g]

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

Plotted and Other Data

Notes:

2 dBi Embedded PCB Antenna 860-960 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 dBi Embedded PCB Antenna 860-960 MHz UMCX Connector PE51216](#)

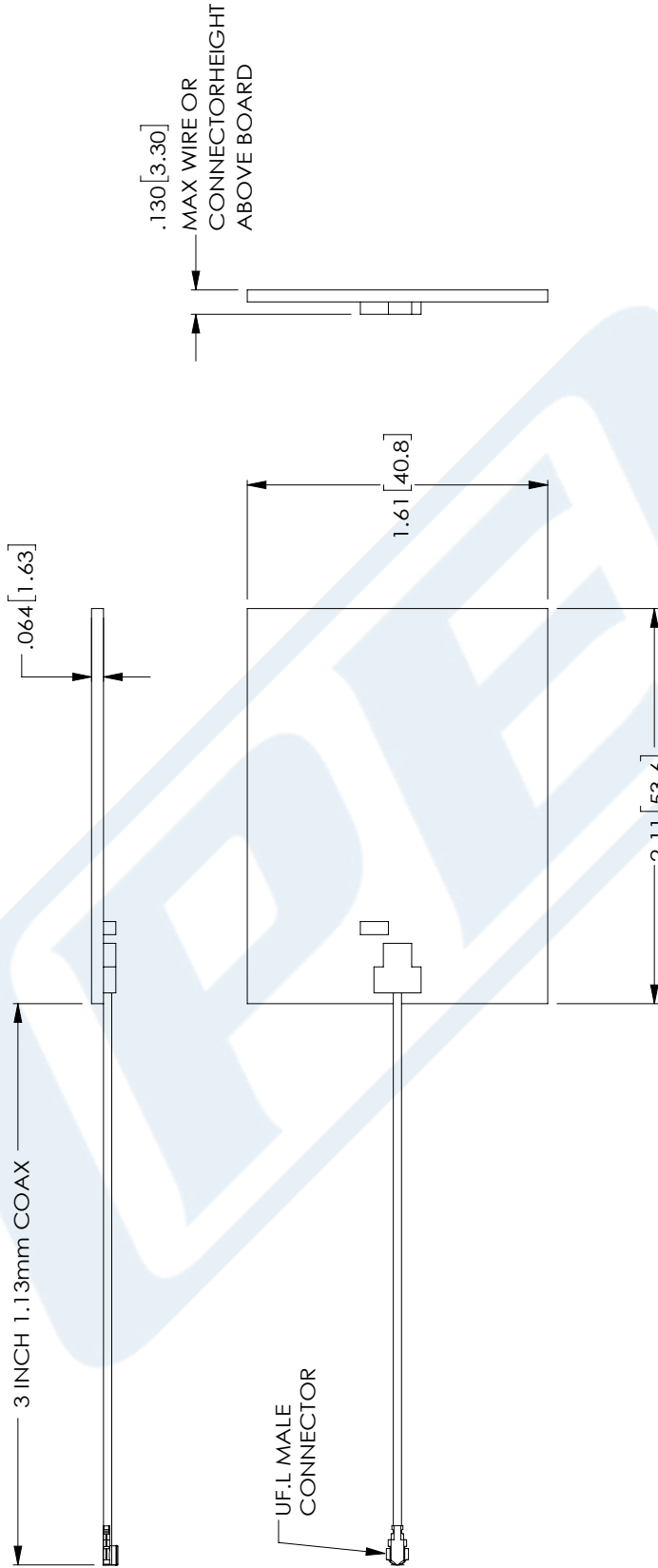
URL: <https://www.pasternack.com/single-antenna-860-960-mhz-2-dbi-gain-umcx-pe51216-p.aspx>

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.

PE51216 CAD Drawing

2 dBi Embedded PCB Antenna 860-960 MHz UMCX Connector

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



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

.X = ±.2	[5.08]	FRACTIONS	±1/32
.XX = ±.02	[.51]	ANGLES ± 1°	
.XXX = ±.005	[.13]	CABLE LENGTH (L) TOLERANCES:	

L ≤ 12 [305] = +1 [25] / -0
 12 [305] < L ≤ 60 [1524] = +2 [51] / -0
 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
 300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

PE PASTERNAK
an INFINITI[®] brand

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	SLI	PE51216
REV			A

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