

2 dBi MultiBand Embedded PCB Antenna 824-2,200 MHz UMCX Connector

Antennas Technical Data Sheet

PE51197

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
- Multiband cellular frequencies

Description

The PE51197 is a multiband 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	Multi
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	824		2,200	MHz
Input VSWR			2:1	
Impedance		50		Ohms
Gain		2		dBi

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	824-960	1,710-2,200				MHz

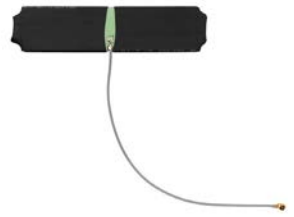
Mechanical Specifications

Size	
Overall Length	3.18898 in [81 mm]
Width	0.826772 in [21 mm]

Environmental Specifications

Temperature	
Operating Range	-30 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 dBi MultiBand Embedded PCB Antenna 824-2,200 MHz UMCX Connector PE51197](#)



2 dBi MultiBand Embedded PCB Antenna
824-2,200 MHz UMCX Connector

Antennas Technical Data Sheet

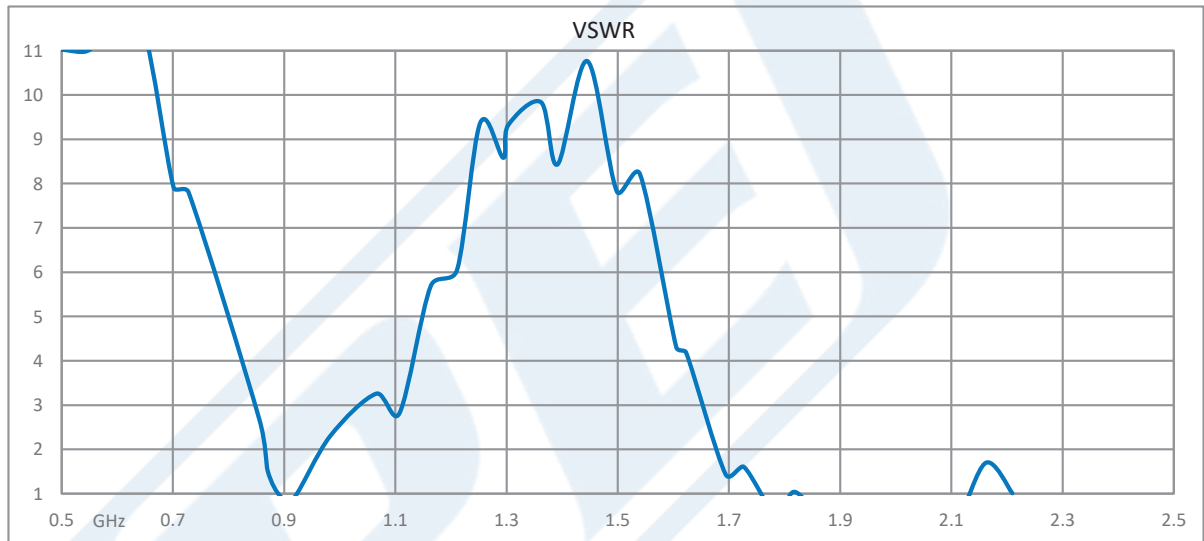
PE51197

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

Plotted and Other Data

Notes:

Typical Radiation Pattern



2 dBi MultiBand Embedded PCB Antenna 824-2,200 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 MultiBand Embedded PCB Antenna 824-2,200 MHz UMCX Connector PE51197](#)

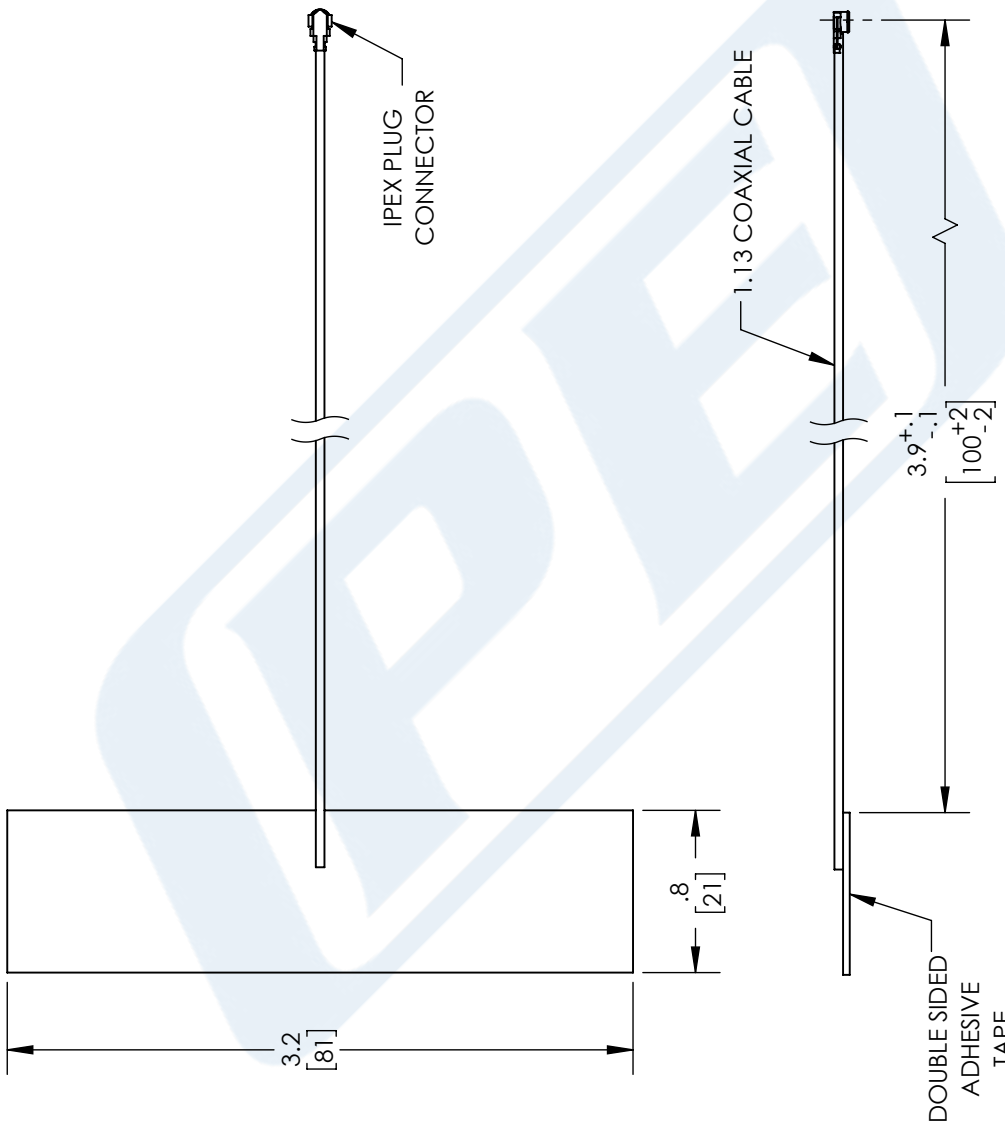
URL: <https://www.pasternack.com/multi-antenna-824-mhz-2.2-ghz-2-dbi-gain-umcx-pe51197-p.aspx>

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.

PE51197 CAD Drawing

2 dBi MultiBand Embedded PCB Antenna 824-2,200 MHz UMCX Connector

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	06/18/2020
		APPROVED
		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%L / -0	

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

PE PASTERNAK
an INFINITI brand

Pasternack Enterprises, Inc.
P. O. Box 16759, Irvine, CA 92623.
Phone: 1.949.261.1920 | 1.866.727.8376
Fax: 1.949.261.7451
Website: www.pasternack.com
E-mail: sales@pasternack.com

SIZE: A CAGE CODE: 53919 DRAWN BY: SLI ITEM NO.: PE51197

THIRD-ANGLE PROJECTION

THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.

SHEET 1 OF 1

SCALE: N/A

REV: A