



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

Antennas Technical Data Sheet

PE51194

**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 PE51194 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			3:1	
Impedance		50		Ohms
Gain		0		dBi

**Specifications by Band**

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	824-960	1,710-1,880	1,900-2,200			MHz

**Mechanical Specifications**

<b>Size</b>	
Overall Length	1.37795 in [35 mm]
Width	0.23622 in [6 mm]

**Environmental Specifications**

<b>Temperature</b>	
Operating Range	-40 to +70 deg C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [0 dBi MultiBand Embedded PCB Antenna 824-2,200 MHz UMCX Connector PE51194](#)



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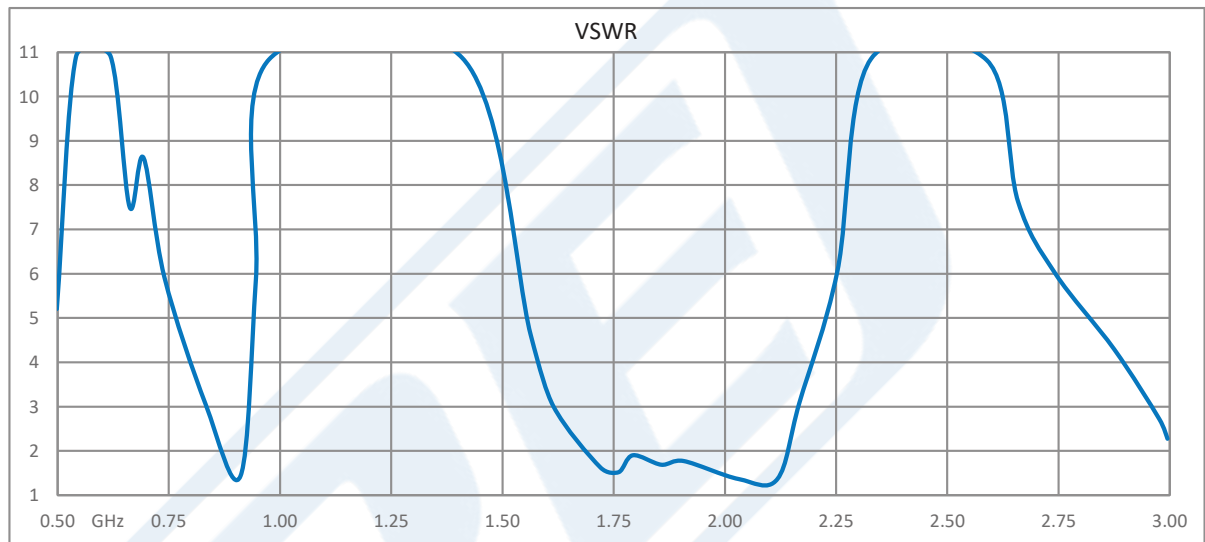
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**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:



0 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: [0 dBi MultiBand Embedded PCB Antenna 824-2,200 MHz UMCX Connector PE51194](#)

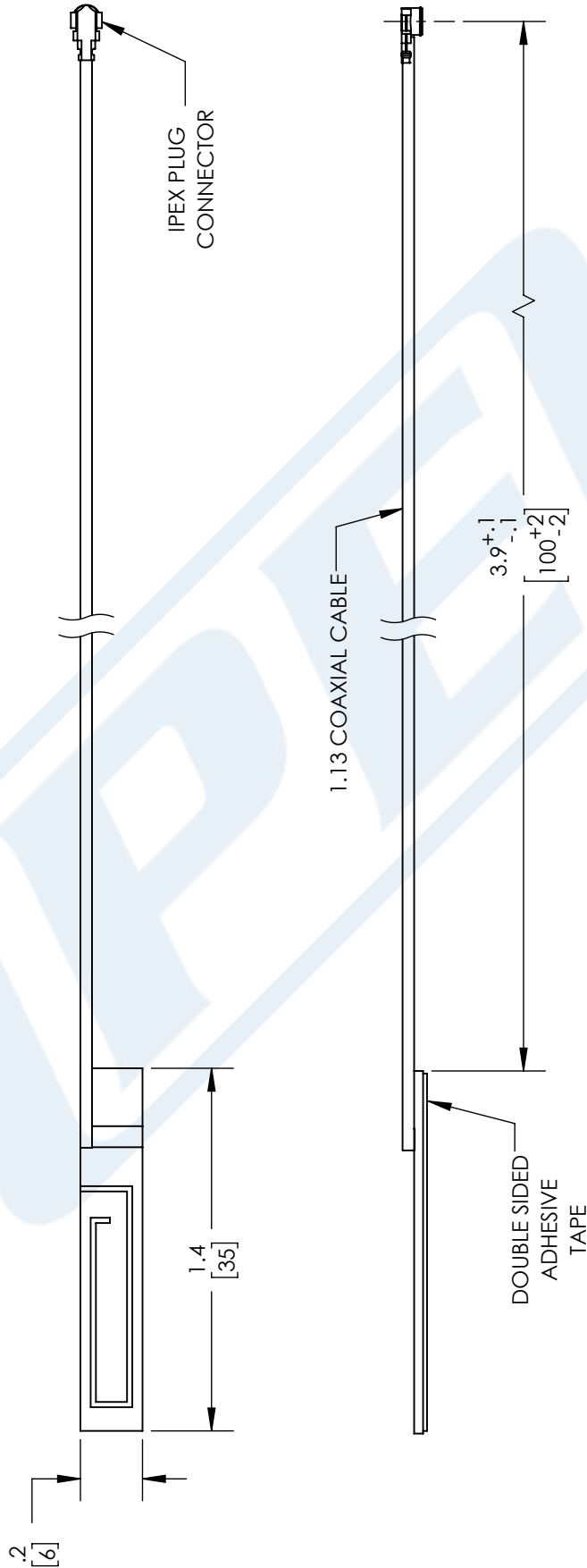
URL: <https://www.pasternack.com/multi-antenna-824-mhz-2.2-ghz-0-dbi-gain-umcx-pe51194-p.aspx>

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# PE51194 CAD Drawing

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



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