



## 6 dBi DualBand Omni Antenna N Type Connector

### Antennas Technical Data Sheet

PE51OM1004

#### Features

- Heavy duty industrial grade design
- Fiberglass radome
- All weather operation
- Twin heavy duty steel mounting brackets and u-bolts
- Integral N-Female connector

#### Applications

- 2.4/5.8 GHz IEEE 802.11a/b/g and 802.11ac applications
- 5.8 GHz UNII and ISM applications
- 2.4GHz Wi-Fi applications
- Wireless video systems
- Point-to-multipoint applications

#### Description

The HyperLink PE51OM1004 is a professional high gain dual band omnidirectional base station Wi-Fi antenna designed and optimized for the 2.4 and 5.8GHz frequency. This antenna is ideally suited for multipoint applications where long range and wide coverage is desired.

The PE51OM1004 construction features a heavy-duty fiberglass radome for durability and aesthetics. Designed to operate in the harshest of environments, the PE51OM1004 far exceeds other omnidirectional antennas. The included mounting system features twin heavy-duty mounting brackets and u-bolts for superior strength.

#### Configuration

Design	Omni
Band Type	Dual
Radiation Pattern	Omni Directional
Polarization	Vertical
Connector Type	N Female
Number of Ports	1
Lightning Protection	DC Short

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		6		dBi
Downtilt			0	Degrees
Input Power			100	Watts

#### Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2,400-2,500	5,725-5,850				MHz
Gain	6	6				dBi
Horizontal Beam Width	360	360				Degees
Vertical Beam Width	19	11				Degees
VSWR Max	1.5:1	1.5:1				

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [6 dBi DualBand Omni Antenna N Type Connector PE51OM1004](#)



6 dBi DualBand Omni Antenna N Type Connector

Antennas Technical Data Sheet

PE51OM1004

Maximum Input Power	100	100	Watts
---------------------	-----	-----	-------

**Mechanical Specifications**

Radome Material	Fiberglass
<b>Size</b>	
Radome Diameter	2.04 in [51.82 mm]
Overall Length	32.5 in [825.5 mm]
Width	2.04 in [51.82 mm]
Height	2.04 in [51.82 mm]
Mounting Mast Diameter	1.2 to 2.4 in [30.48 to 60.96 mm]
Weight	1 lbs [453.59 g]

**Environmental Specifications**

<b>Temperature</b>	
Operating Range	-40 to +85 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: [6 dBi DualBand Omni Antenna N Type Connector PE51OM1004](#)

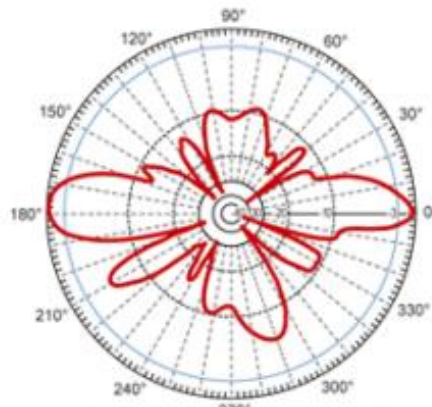


6 dBi DualBand Omni Antenna N Type Connector

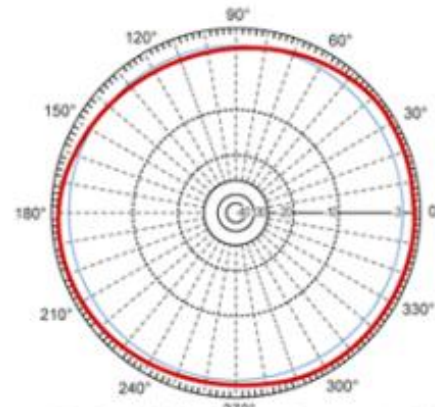
Antennas Technical Data Sheet

PE510M1004

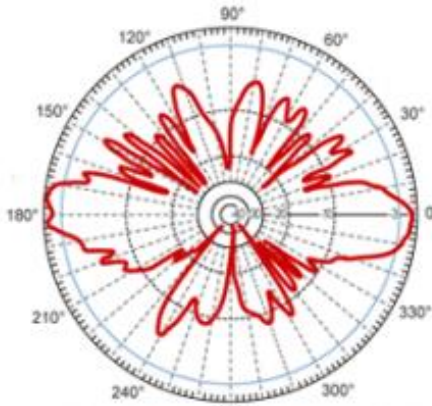
Typical Radiation Pattern



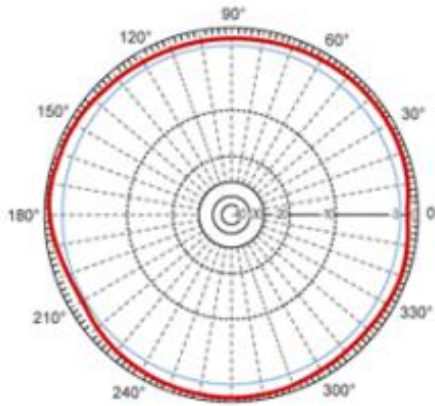
**2.4 GHz Vertical**



**2.4 GHz Horizontal**



**5.8 GHz Vertical**



**5.8 GHz Horizontal**

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [6 dBi DualBand Omni Antenna N Type Connector PE510M1004](#)



## 6 dBi DualBand Omni Antenna N Type Connector

### Antennas Technical Data Sheet

PE51OM1004

6 dBi DualBand Omni Antenna N Type 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: [6 dBi DualBand Omni Antenna N Type Connector PE51OM1004](#)

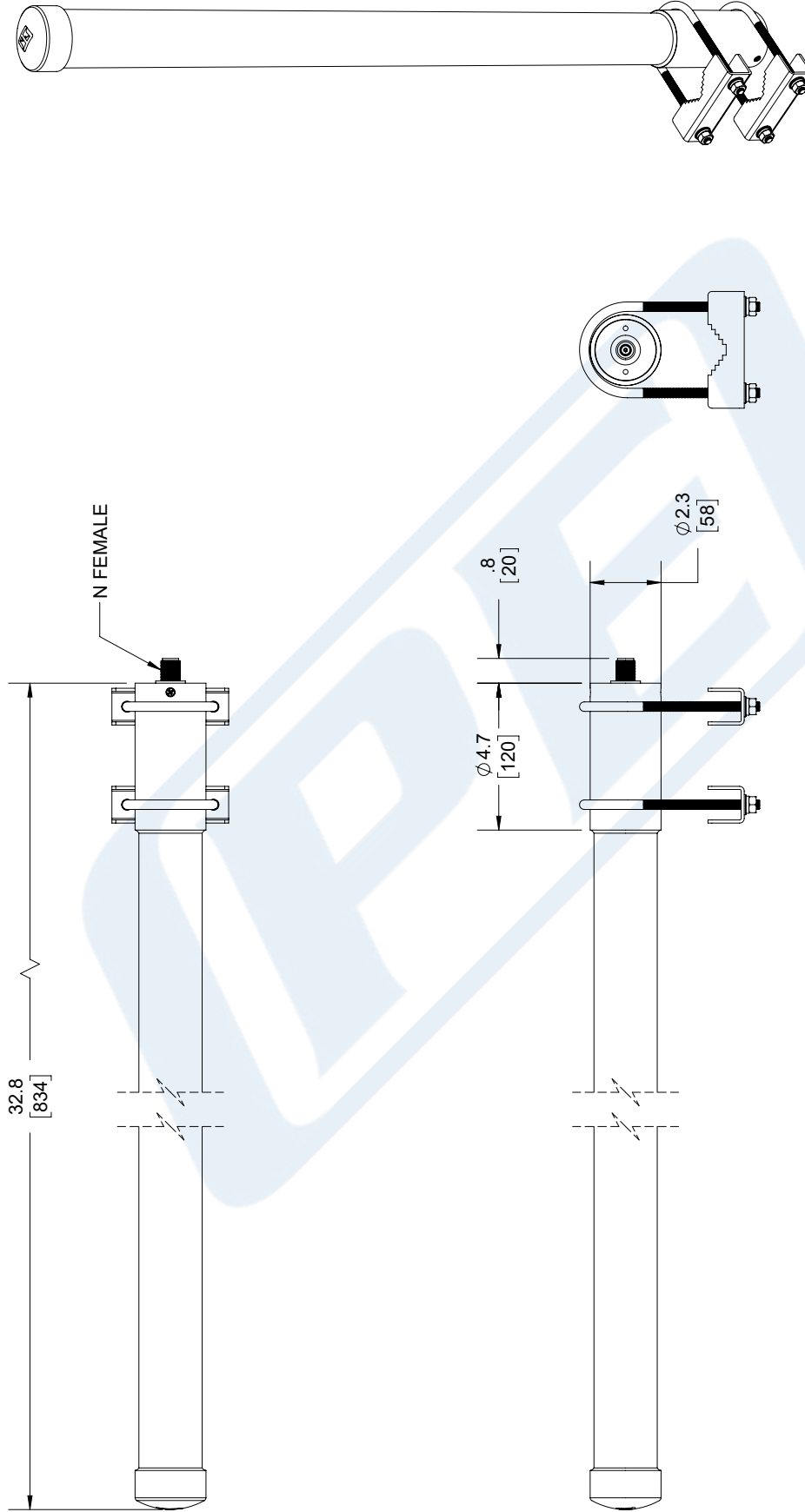
URL: <https://www.pasternack.com/dual-antenna-6-dbi-gain-n-pe51om1004-p.aspx>

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.

# PE510M1004 CAD Drawing

## 6 dBi DualBand Omni Antenna N Type Connector

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	2/13/2020
		APPROVED
		M.MILLER



**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.

**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

**PASTERNAK**  
an INFINIT 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	CAGE CODE	DRAWN BY	ITEM NO
A	53919	K.DANG	PE510M1004
			REV
			A

**REGULATORY COMPLIANCE:**  
 EU RoHS DIRECTIVE (MOST RECENT RELEASED VERSION)

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.