

# 2400-2500 MHz 12dBi Omnidirectional Fiberglass Antenna, N Male Connector

## Antennas Technical Data Sheet

**PE51OM1051**

### Features

- All weather operation
- Lightweight fiberglass radome
- Integral N-Male connector
- Commercial grade design
- 360° Omnidirectional Pattern

### Applications

- 2400 Band Operation
- Point to Multipoint and Non Line of Sight (NLOS)
- Applications
- 12 dBi gain

### Description

The PE51OM1051 from the Pasternack antenna is high performance outdoor omnidirectional antenna specifically designed for cellular networks. This PE51OM1051 outdoor antenna is an economically rugged omnidirectional antenna that provides high reliability due to its fiberglass radome. This Omni antenna has a 12 dBi gain and 2400 to 2500 MHz frequency range that offers great coverage for rural areas or difficult-to-cover areas.

The 2400 to 2500 MHz frequency range omnidirectional antenna has coverage of Wi-Fi, CBRS bands 4G, LTE, 5G, and CBRS bands. The PE51OM1051 omnidirectional antenna has vertical polarization with a cable length of 47.244 inches. All the components in the omnidirectional fiberglass antenna is DC grounded for lightning protection.

The 12 dBi high gain omnidirectional outdoor-rated antenna has 360 degrees of coverage to offer range extension and simple deployment to build Wi-Fi and cellular communication networks. This 2400 to 2500 MHz Omni antenna has N-type Female connectors that makes installation easy and fast allowing for rapid time to on air activation. The versatile N-type Female connector option in the Omni antenna allows direct connections to the radios and is fit where high coverage is required and traditional base station antennas are too bulky.

Pasternack has a stock of PE51OM1051 antenna with same-day shipping. The weatherproof fiberglass omnidirectional antenna has 100 W maximum power handling capability and covers all telecom needs. For further information on similar products, search this website or contact our expert technical support who would be happy to guide you to the perfect 2400 to 2500 MHz, 12 dBi gain omnidirectional antenna for your requirement.

### Configuration

Radiation Pattern	Omni Directional
Polarization	Vertical
Connector Type	N Male
Number of Ports	1

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,400		2,500	MHz
Input VSWR		1.5:1		
Impedance		50		Ohms
Gain		12		dB
Horizontal Beam Width			360	Degrees
Vertical Beam Width			7	Degrees
Input Power			100	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2400-2500 MHz 12dBi Omnidirectional Fiberglass Antenna, N Male Connector PE51OM1051](#)

2400-2500 MHz 12dBi Omnidirectional  
Fiberglass Antenna, N Male Connector

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**Mechanical Specifications**

Radome Material	Fiberglass
<b>Size</b>	
Overall Length	50 in [127 cm]
Width	2 in [50.8 mm]
Height	2 in [50.8 mm]
Mounting Mast Diameter	1.57 to 1.96 in [39.88 to 49.78 mm]
Weight	24 lbs [10.89 kg]

**Environmental Specifications**

<b>Temperature</b>	
Operating Range	-40 to +70 deg C
Wind Loading	124.274 MPH [200 KPH]
Humidity	5 to 95
Ingress Protection	IP67

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

**Plotted and Other Data**

Notes:

2400-2500 MHz 12dBi Omnidirectional Fiberglass Antenna, N Male 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.

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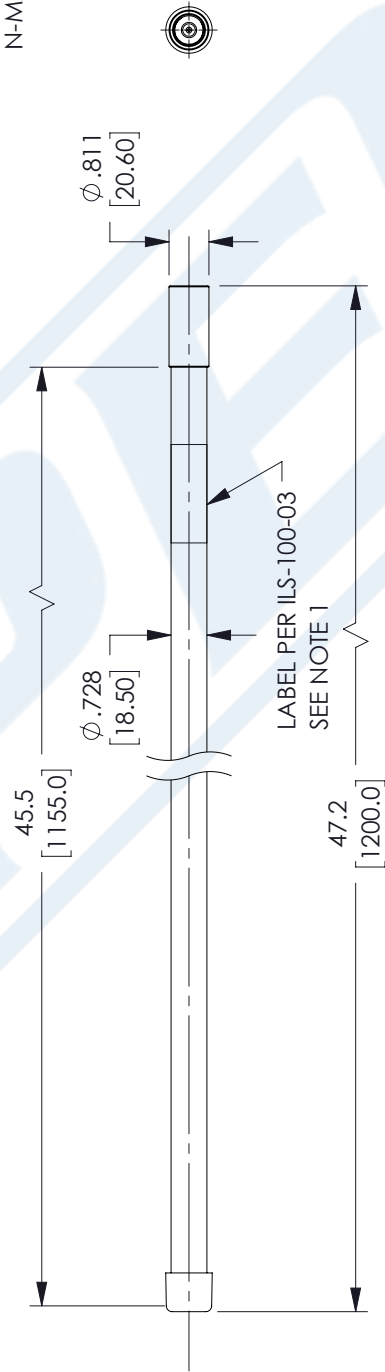
URL: <https://www.pasternack.com/2400-2500-mhz-12dbi-omnidirectional-fiberglass-antenna-n-male-connector-pe51om1051-p.aspx>

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.

# PE51OM1051 CAD Drawing

2400-2500 MHz 12dBi Omnidirectional Fiberglass Antenna, N Male Connector

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	02/23/2022	WZHANG



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 INFINITE brand

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ITEM NO. PE51OM1051  
 DRAWN BY WZHANG  
 SIZE A  
 CAGE CODE 53919  
 SCALE N/A

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1  
 SCALE N/A

REV A

- NOTES:
1. LABEL PER ILS-100-03 (FOR INTERNAL REFERENCE ONLY)  
 LABEL LOCATION FOR REFERENCE ONLY

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