

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



Antennas Technical Data Sheet

PE51OM1050

Features

- All weather operation
- Includes heavy duty steel mast mounting brackets
- Lightweight fiberglass radome
- Integral N-Female 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 PE51OM1050 from the Pasternack antenna is high performance outdoor omnidirectional antenna specifically designed for cellular networks. This PE51OM1050 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 PE51OM1050 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 PE51OM1050 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 Female
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 Female Connector PE51OM1050](#)

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Mechanical Specifications

Radome Material	Fiberglass
Size	
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

Temperature	
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 Female 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: [2400-2500 MHz 12dBi Omnidirectional Fiberglass Antenna, N Female Connector PE51OM1050](#)

URL: <https://www.pasternack.com/2400-2500-mhz-12dbi-omnidirectional-fiberglass-antenna-n-female-connector-pe51om1050-p.aspx>

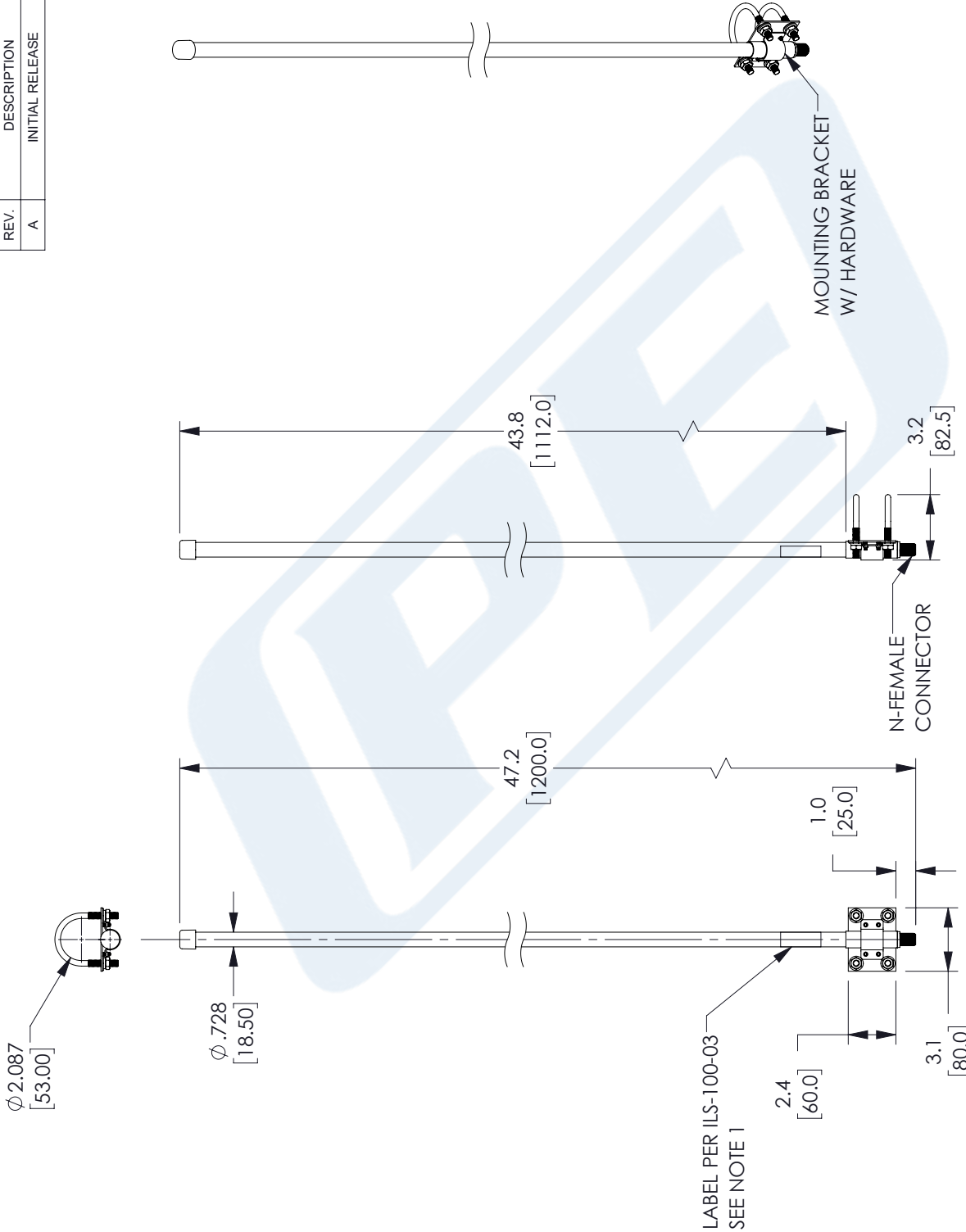
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PE51OM1050 CAD Drawing

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REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	03/02/2022	WZHANG



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

TOLERANCES:
.X = ±.2 [5.08] FRACTIONS
.XX = ±.02 [.51] ±.132
.XXX = ±.005 [.13] ANGLES ± 1°
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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SHEET 1 OF 1
SCALE N/A

SIZE A CAGE CODE 53919 DRAWN BY WZHANG ITEM NO. PE51OM1050 REV A

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

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