



2.4 GHz 4 dBi Omnidirectional Antenna - N-Male Connector

Antennas Technical Data Sheet

PE51OM1024

Features

- High Performance in a compact lightweight design
- Durable UV-Stable fiberglass radome
- All weather operation
- Integral N-Male connector
- Optional magnetic mounts available

Applications

- 2.4 GHz ISM Band
- IEEE 802.11b, 802.11g and 802.11n Wireless LAN
- Public wireless hotspots
- WiFi Access Points
- Multipoint and mobile applications

Description

The HyperLink brand model PE51OM1024 is an economical yet high performance omnidirectional antenna designed for the 2.4 GHz ISM band. This compact and lightweight antenna is ideally suited for IEEE 802.11b, 802.11g and 802.11n wireless LANs, Bluetooth, public wireless hotspot application and other multipoint applications where wide coverage is desired.

Constructed for all weather operation, the PE51OM1024 features sealed collinear brass elements inside a durable UV-stable machine gray fiberglass radome. A vented end cap and drain holes in the base help prevent moisture build-up inside the antenna. These features allow the PE51OM1024 to be mounted in up or down positions.

The PE51OM1024 features an integral N-Male connector. This allows it to be mounted to various types of N-Female Bulkhead connectors and adapters as well as N-Female type magnetic mounts which are available separately or in kits with the PE51OM1024 antenna.

Configuration

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

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		4		dBi
Input Power			100	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2,400-2,500					MHz
Gain	4					dBi

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.4 GHz 4 dBi Omnidirectional Antenna - N-Male Connector PE51OM1024](#)



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Horizontal Beam Width	360	Degees
Vertical Beam Width	30	Degees
Maximum Input Power	100	Watts

Mechanical Specifications

Radome Material	Fiberglass
Size	
Base Diameter	1.2 in [30.48 mm]
Radome Diameter	0.75 in [19.05 mm]
Overall Length	7.9 in [200.66 mm]
Width	1.2 in [30.48 mm]
Height	1.2 in [30.48 mm]
Weight	0.8 lbs [362.87 g]

Environmental Specifications

Temperature	
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: [2.4 GHz 4 dBi Omnidirectional Antenna - N-Male Connector PE51OM1024](#)

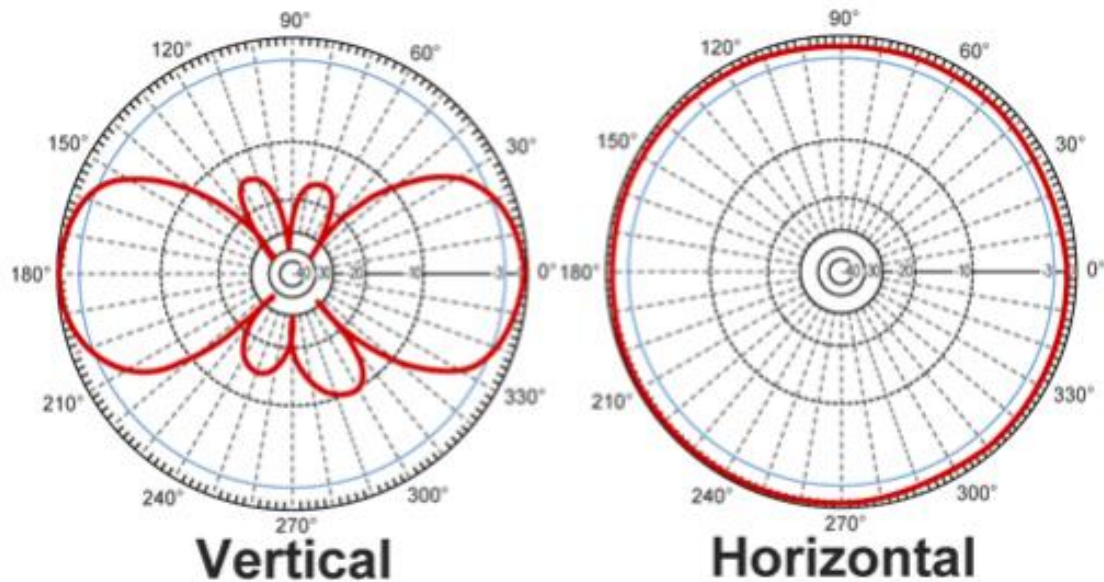


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Typical Radiation Pattern



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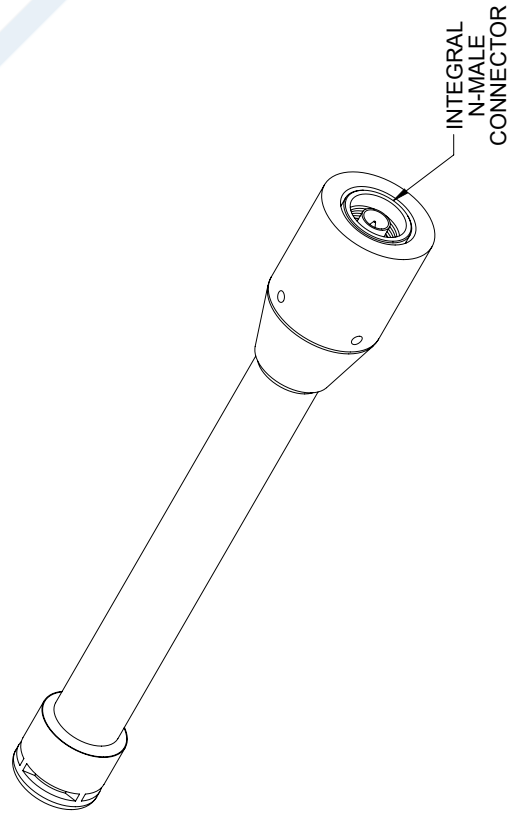
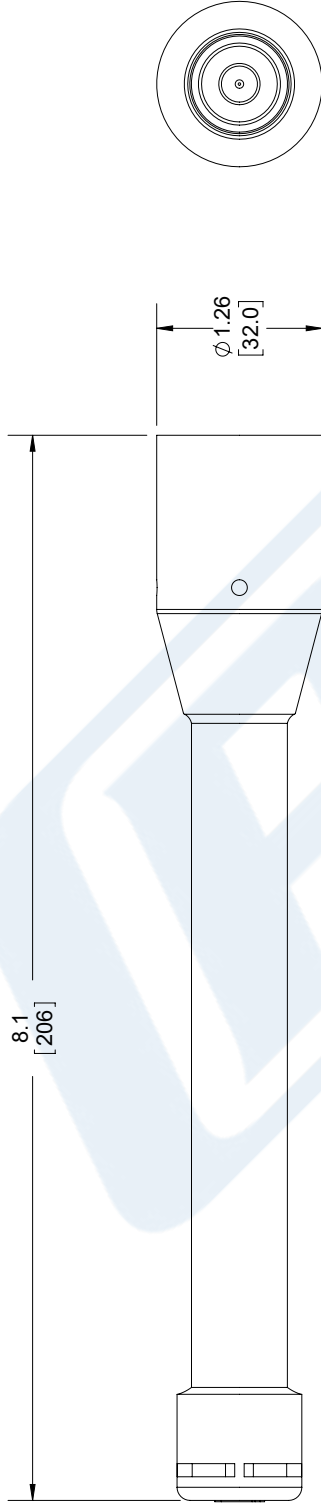
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PE510M1024 CAD Drawing

2.4 GHz 4 dBi Omnidirectional Antenna - N-Male Connector


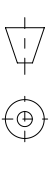
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	2/17/2020	M.MILLER



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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	
.X = ±.2	[5.08]
.XX = ±.02	[.51]
.XXX = ±.005	[.13]
FRACTIONS ± 1/32	
ANGLES ± 1°	
CABLE LENGTH (L) TOLERANCES:	
L ≤ 12 [305]	±.1 [25]
12 [305] < L ≤ 60 [1524]	±.2 [51]
60 [1524] < L ≤ 120 [3048]	±.4 [102]
120 [3048] < L ≤ 300 [7620]	±.6 [152]
300 [7620] < L	±.9% L / -0
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	

 PASTERNAK an INFINITO brand		Pastermack 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.pastermack.com E-mail: sales@pastermack.com	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
SIZE	CAGE CODE	DRAWN BY	ITEM NO
A	53919	K.DANG	PE510M1024
			REV
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