



2.4 GHz 5 dBi Omni Antenna w/ Magnetic Mount

Antennas Technical Data Sheet

PE51MO1004

Features

- Magnetic base with 10 ft. high performance low-loss 195-series cable
- Weather-Proof
- Compact size
- Fixed mounts available

Applications

- IEEE 802.11n (Pre-N, Draft-N) Applications
- Wireless Video Systems & Multipoint and Mobile Applications
- 2.4 GHz ISM Band
- IEEE 802.11b and 802.11g Wireless LAN
- WiFi & Wireless Video Systems

Description

Antenna Kit Application This very compact yet high performance 2.4 GHz mobile omnidirectional WIFI antenna is ideally suited for multipoint mobile applications including service vehicles, public transportation, law enforcement, mining and construction vehicles, as well as numerous other commercial and industrial applications where mobility and wide coverage is desired. It is compatible with IEEE 802.11b and 802.11g wireless LANs, Bluetooth® and other WLAN applications.

This compact RF antenna features a standard TAD/NMO Motorola-type mobile base coupled with a magnetic mounting system and 10 feet of high performance low-loss 195-Series cable terminated with an N-Female or N-Male connector. A fixed mount is also available for permanent installation through the roof or other vehicle surface.

Configuration

Design	Mobile
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Vertical
Cable Type	195- Series
Cable Length	120 in [304.8 cm]
Connector Type	SMA Plug Reverse Polarity
Number of Ports	1

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		5		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	5					dBi
Horizontal Beam Width	360					Degees
Vertical Beam Width	50					Degees

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 5 dBi Omni Antenna w/ Magnetic Mount PE51MO1004](#)



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Maximum Input Power 100 Watts

Mechanical Specifications

Size

Overall Length	10 in [254 mm]
Width	3 in [76.2 mm]
Height	3 in [76.2 mm]
Weight	1.1 lbs [498.95 g]

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
Wind Loading	200 MPH [321.87 KPH]

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 5 dBi Omni Antenna w/ Magnetic Mount PE51MO1004](#)

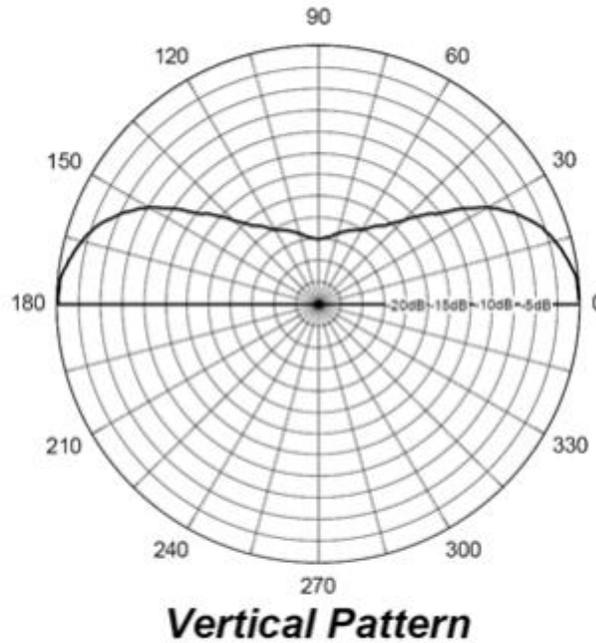


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Typical Radiation Pattern



2.4 GHz 5 dBi Omni Antenna w/ Magnetic Mount 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: [2.4 GHz 5 dBi Omni Antenna w/ Magnetic Mount PE51MO1004](#)

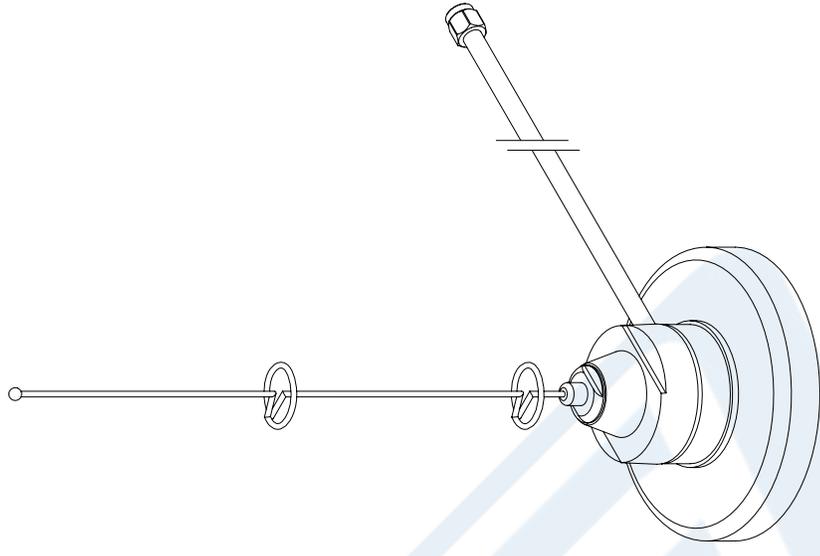
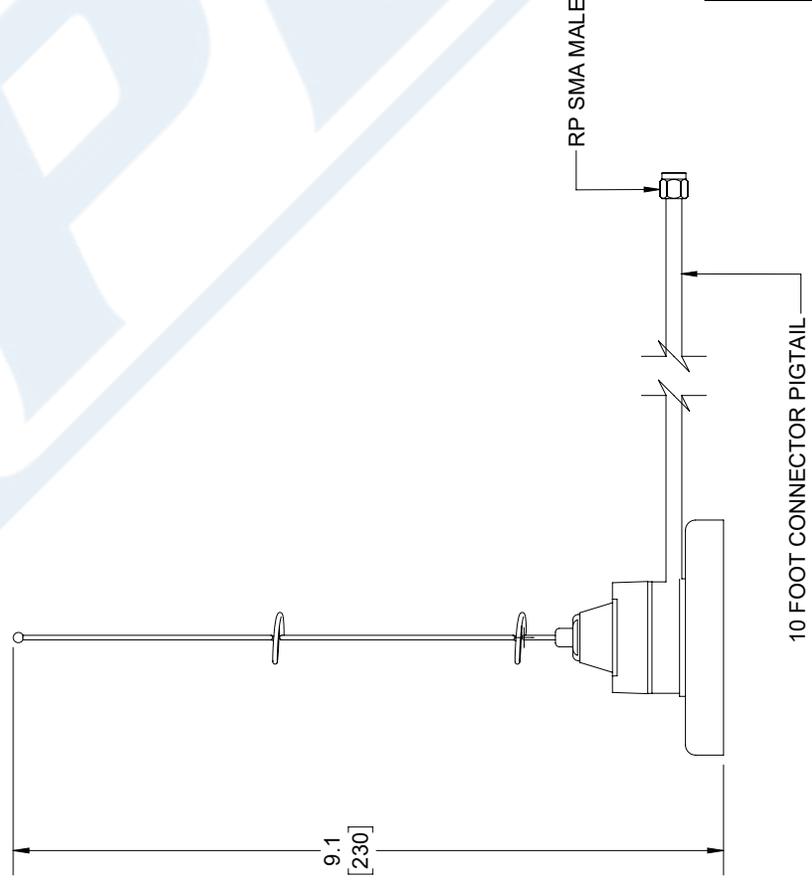
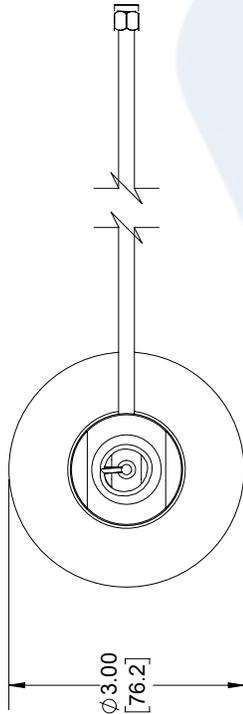
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

PE51MO1004 CAD Drawing

2.4 GHz 5 dBi Omni Antenna w/ Magnetic Mount

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



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

TOLERANCES:

.X = ±.2	[5.08]	FRACTIONS
.XX = ±.02	[.51]	± 1/32
.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.

PASTERNAK
an INFINITO brand

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO
A	53919	K.DANG	PE51MO1004
REV			A

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

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