



2.4 GHz 3 dBi Black Radome Enclosed Omni Antenna NMO Connector

Antennas Technical Data Sheet

PE51MO1003

Features

- TAD/NMO mounting system
- Compact size & Weather-Proof
- Radome Enclosed, ideal for outdoor use
- Fixed mounts available

Applications

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

Description

This very compact 2.4GHz omni WiFi antenna provides broad coverage and 3 dBi gain. They are ideally suited for IEEE 802.11b and 802.11g wireless LANs, Bluetooth® and other applications where wide coverage is desired.

This RF antenna is only 2.7" long and features an aesthetic black finish. It is designed with a standard TAD/NMO Motorola-type connection that allows for ease of installation to similar TAD/NMO mounting systems. Because of its near-invisible design this antenna is ideal for use on vehicles where vandal-resistance and aesthetics are important.

Configuration

Design	Mobile
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Vertical
Connector Type	NMO Mount
Number of Ports	1

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		3		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	3					dBi
Horizontal Beam Width	360					Degees
Vertical Beam Width	80					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 3 dBi Black Radome Enclosed Omni Antenna NMO Connector PE51MO1003](#)



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Mechanical Specifications

Radome Material

ABS

Size

Overall Length

2.7 in [68.58 mm]

Width

1.4 in [35.56 mm]

Height

1.4 in [35.56 mm]

Weight

0.2 lbs [90.72 g]

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

Wind Loading

150 MPH [241.4 KPH]

ESD Protection

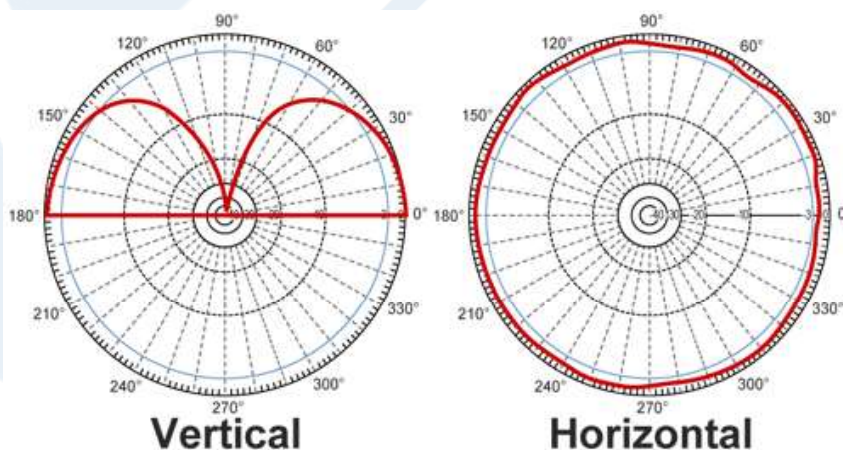
IP66

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

Plotted and Other Data

Notes:

Antenna Gain Pattern



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2.4 GHz 3 dBi Black Radome Enclosed Omni Antenna NMO 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: [2.4 GHz 3 dBi Black Radome Enclosed Omni Antenna NMO Connector PE51MO1003](https://www.pasternack.com/single-antenna-3-dbi-gain-nmo-mount-pe51mo1003-p.aspx)

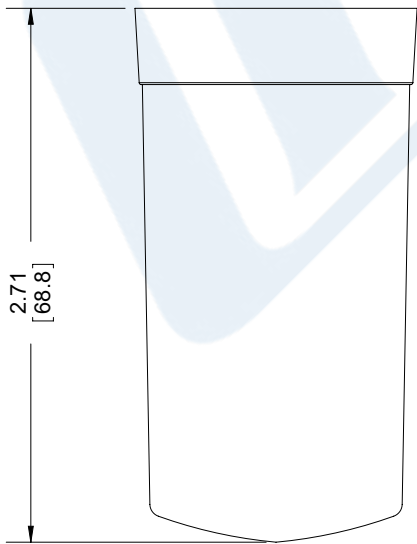
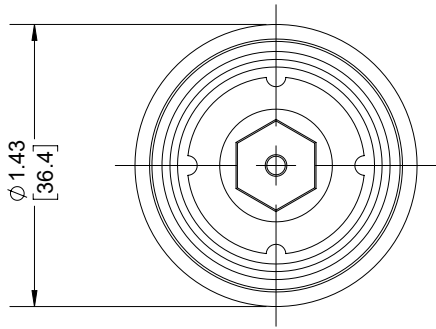
URL: <https://www.pasternack.com/single-antenna-3-dbi-gain-nmo-mount-pe51mo1003-p.aspx>

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.

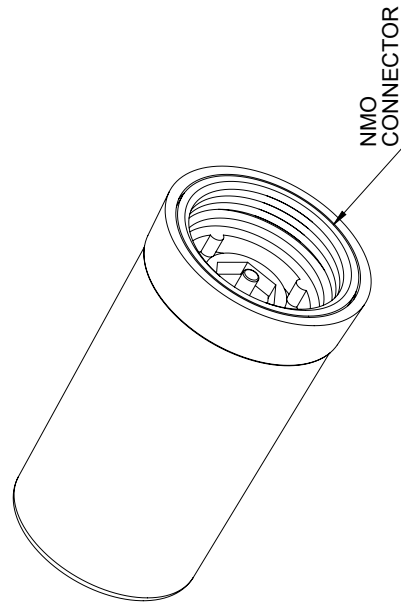
PE51MO1003 CAD Drawing

2.4 GHz 3 dBi Black Radome Enclosed Omni Antenna NMO Connector

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



RUBBER GASKET INCLUDED



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EU RoHS DIRECTIVE (MOST RECENT RELEASED VERSION)

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

TOLERANCES:

.X = ± .2	[.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.

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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

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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	K.DANG	PE51MO1003
REV	A		