



## 2.4 GHz 8 dBi Omnidirectional Antenna - 12in RP-SMA Plug Connector

### Antennas Technical Data Sheet

**PE510M1026**

#### Features

- Compact, lightweight design
- Durable UV-stable fiberglass radome
- All weather operation
- 12" coax lead
- Includes mounting system

#### Applications

- 2.4 GHz ISM Band
- Supports IEEE 802.11b/g/n applications
- WiFi and 2.4 GHz wireless video systems
- Bluetooth® & Public Wireless Hotspot

#### Description

The HyperGain PE510M1026 is a very compact yet high performance omnidirectional WiFi antenna designed for the 2.4GHz ISM band. It is ideally suited for multipoint and mobile applications where high gain and wide coverage is desired. Additional applications include IEEE 802.11b, 802.11g and 802.11n wireless LANs, Bluetooth®, public wireless hotspot applications.

This antenna's construction features a durable fiberglass radome for durability and aesthetics. Its mounting system features a heavy-duty extruded aluminum bracket and stainless steel U-Bolt for superior strength.

#### Configuration

Design	Omni
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Vertical
Cable Type	Coax lead
Cable Length	12 in [304.8 mm]
Connector Type	SMA Plug
Number of Ports	1

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,400		2,500	MHz
Input VSWR			2:1	
Impedance		50		Ohms
Gain		8		dBi
Horizontal (Azimuth) Beam Width		Omnidirectional		
Vertical (Elevation) Beam Width		18		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: [2.4 GHz 8 dBi Omnidirectional Antenna - 12in RP-SMA Plug Connector PE510M1026](#)



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**Mechanical Specifications**

Radome Material

Fiberglass

**Size**

Overall Length

16.8 in [426.72 mm]

Width

1.1 in [27.94 mm]

Height

1.1 in [27.94 mm]

Mounting Mast Diameter

2.38 in [60.45 mm]

Weight

1.14 lbs [517.1 g]

**Environmental Specifications**

**Temperature**

Operating Range

-40 to +85 deg C

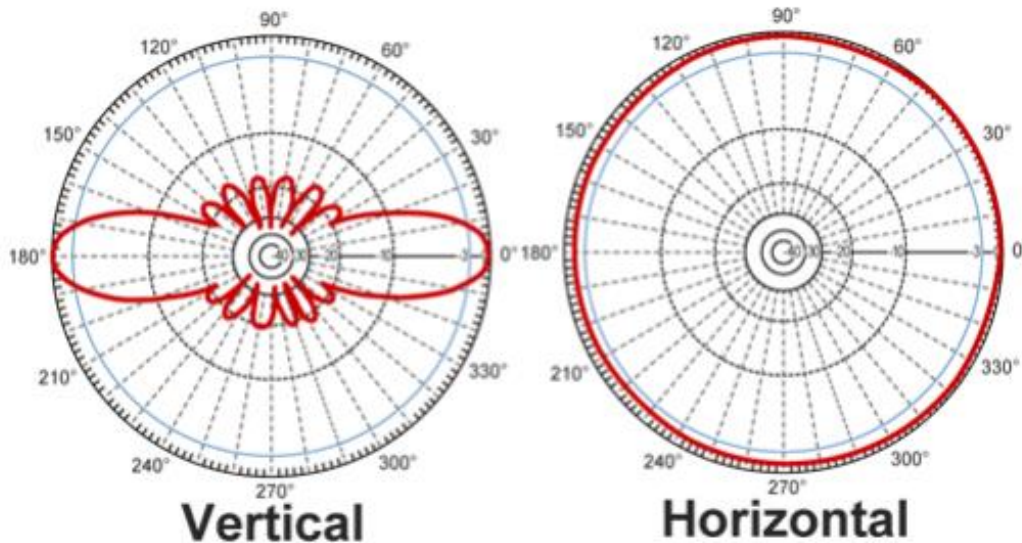
Wind Loading

100 MPH [160.93 KPH]

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

**Plotted and Other Data**

Notes:



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**PE51OM1026**

2.4 GHz 8 dBi Omnidirectional Antenna - 12in RP-SMA Plug 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 8 dBi Omnidirectional Antenna - 12in RP-SMA Plug Connector PE51OM1026](#)

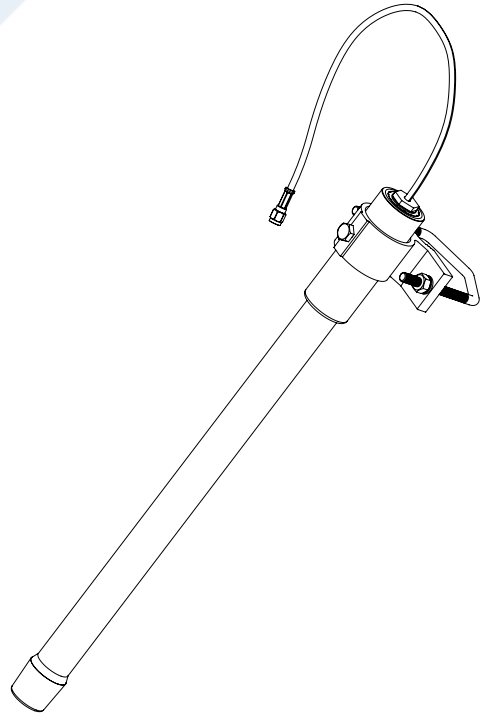
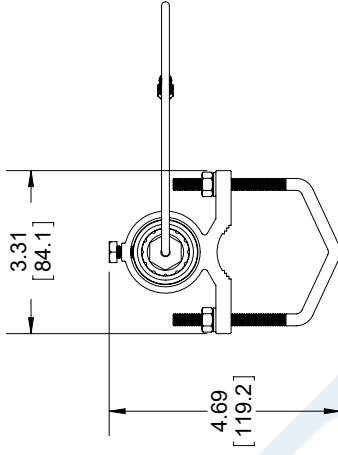
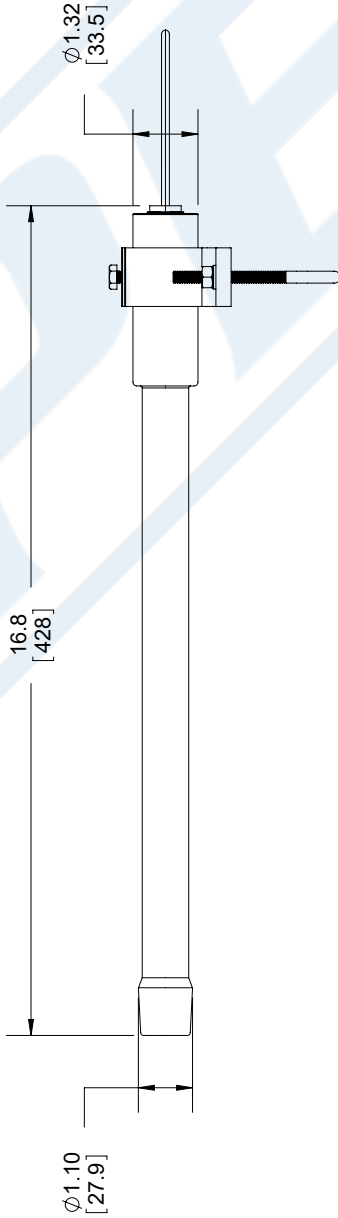
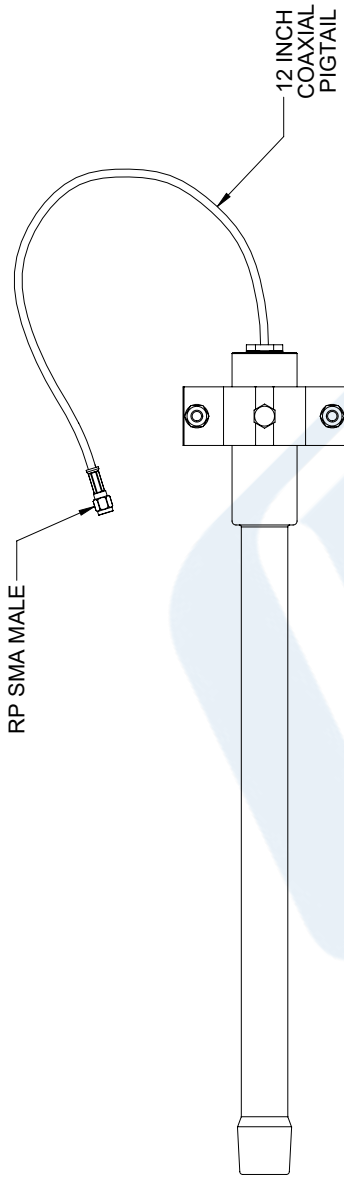
URL: <https://www.pasternack.com/single-antenna-8-dbi-gain-sma-pe51om1026-p.aspx>

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# PE51OM1026 CAD Drawing

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



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN 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.

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV A

ITEM NO PE51OM1026

SIZE A

CAGE CODE 53919

DRAWN BY K.DANG

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