



## **Antennas Technical Data Sheet**

## PE510M1017

#### **Features**

- · Superior all weather performance
- Rugged industrial grade design
- · Lightweight slim fiberglass radome

## **Applications**

- 900 MHz ISM band and Wireless LAN systems
- · Multipoint applications
- Non Line of Sight (NLOS)

- · Integral N-Female connector
- · Extruded aluminum mounting bracket
- · M2M, LPWAN, LoRA, IoT applications
- · SCADA applications

#### Description

The 900 MHz UP-series are lightweight, low profile, high performance Omni-directional antennas designed for the 900 MHz ISM band. They are ideally suited for multipoint, Non Line of Sight (NLOS) and mobile applications where compact form factor, high gain and wide coverage is desired. Typical applications for these antennas include 900 MHz Wireless LAN, SCADA, Wireless Video Links, M2M, LPWAN, LoRA and M2M applications. The UP-series antennas feature an integral N-Female type connector and include a mast mounting kit. The kit consists of an extruded aluminum bracket and a pair of U-bolts which allows installation on masts up to 2.0" in diameter. To ease installation, the bracket can be installed first without the antenna which can then be mounted after the bracket is installed. The UP-series antennas feature a slim 20 mm diameter white UV-stable fiberglass radome providing durability. Additionally, these antennas are designed with a sealed aluminum end cap and includes drain holes at the aluminum base to help prevent condensation build-up inside the antenna providing trouble-free performance.

#### Configuration

Design Omni Band Type Single

Radiation Pattern Omni Directional

Polarization Vertical
Connector Type Number of Ports 1

**Electrical Specifications** 

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Description	Minimum	Typical	Maximum	Units
Frequency Range	900		928	MHz
Input VSWR		1.6:1		
Impedance		50		Ohms
Gain		3		dBi
Horizontal (Azimuth) Beam Width		Omnidirectional		
Vertical (Elevation) Beam Width		44		Degrees
Input Power			50	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 900 MHz 3 dBi Omni-directional Antenna PE51OM1017

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

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**Mechanical Specifications** 

Radome Material Fiberglass

Size

 Overall Length
 13.8 in [350.52 mm]

 Width
 0.79 in [20.07 mm]

 Height
 0.79 in [20.07 mm]

 Mounting Mast Diameter
 2 in [50.80 mm]

 Weight
 1.06 lbs [480.81 g]

**Environmental Specifications** 

**Temperature** 

Operating Range -40 to +60 deg C Wind Loading 130 MPH [209.21 KPH]

Compliance Certifications (see product page for current document)

**Plotted and Other Data** 

Notes:

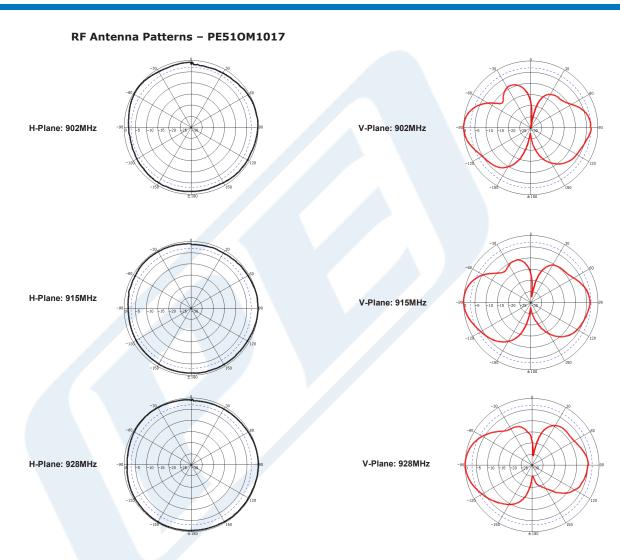
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#### PE510M1017

900 MHz 3 dBi Omni-directional Antenna 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.

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URL: https://www.pasternack.com/single-antenna-3-dbi-gain-n-pe51om1017-p.aspx

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# PE510M1017 CAD Drawing

900 MHz 3 dBi Omni-directional Antenna

