



# 4.9-5.8 GHz Dual Polarized/X-Polarity 25dBi Dish Antenna

#### **Antennas Technical Data Sheet**

### PE51PD1001

#### **Features**

- Adjustable dual polarity feed horn system allows the antenna to be configured for Dual Polarization (horizontal and vertical) or for X-Polarization (+45° and -45°)
- (2) N-Female connectors

- · Includes tilt and swivel mast mount kit
- · Optional radome cover kits available
- Aluminum reflector dish with UV stable light gray polymer finish

## **Applications**

- 5.1/5.3/5.4/5.8 GHz ISM and UNII Band Applications
- · 4.9 GHz Public Safety Band
- MIMO and 802.11 n Applications

- WiMAX Applications
- Long Distance Backhaul and Point to Point Data Links

#### Description

The HyperLink model PE51PD1001 is a high performance broadband dual polarized solid dish antenna. Because of its' superb electrical performance and mechanical stability, the parabolic dish antenna can be used in a wide variety of high performance 4.9 GHz and 5 GHz range (5.1/5.3/5.4/5.8 GHz) wireless applications. The wide band design of this antenna eliminates the need to purchase different antennas for each frequency. This simplifies installations since the same antenna can be used for a wide array of wireless applications. This antenna features 25 dBi of gain with a 7° horizontal beam-width and vertical beam-width.

The PE51PD1001 features an adjustable dual polarity feed horn system which allows the antenna to be configured for Dual Polarization (horizontal and vertical) or for X-Polarization (+45° and -45°). It is fed via two N-Female connectors, one for each polarized signals. This feature makes it ideal for MIMO/802.11n and polarization diversity systems.

The reflector dish of the PE51PD1001 is constructed from high quality aluminum which gives it superior strength. The dish is coated in a light gray UV-inhibited polymer for durability and aesthetics. The small diameter of the dish helps minimize wind loading.

The PE51PD1001 is supplied with a tilt and swivel mast mount kit. This allows installation at various degrees of incline for easy alignment. It can be adjusted up or down from 0° to 30°.

#### Configuration

Design
Band Type
Wide
Radiation Pattern
Polarization
Connector Type
Interface 2
Dish
Wide
Directional
H/V or 45 Deg. Slant
N Female
N Female

Interface 2 N F Number of Ports 2

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		25		dBi
Front to Back Ratio		30		dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 4.9-5.8 GHz Dual Polarized/X-Polarity 25dBi Dish Antenna PE51PD1001

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### PE51PD1001

Input Power 100 Watts

**Electrical Specification Notes:** 

Polarization is adjustable - Dual Polarizaed (Vertical and Horizontal) or X-Polarized (+45degree and -45degree Slant)

#### Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	4,750-5,850					MHz
Gain	25					dBi
Horizontal Beam Width	7					Degees
Vertical Beam Width	7					Degees
Maximum Input Power	100				S. 46	Watts

#### **Mechanical Specifications**

Size

Overall Length
Width
Mounting Mast Diameter

Mounting Mast Diameter Weight

15.7 in [398.78 mm] 15.7 in [398.78 mm]

1.5 to 2.3 in [38.10 to 58.42 mm]

5 lbs [2.27 kg]

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

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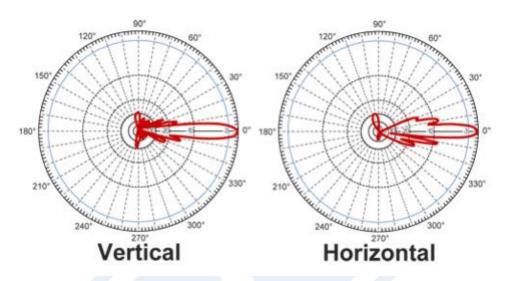
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## **Antennas Technical Data Sheet**

# PE51PD1001

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#### **Typical Radiation Pattern**



4.9-5.8 GHz Dual Polarized/X-Polarity 25dBi Dish 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 4.9-5.8 GHz Dual Polarized/X-Polarity 25dBi Dish Antenna PE51PD1001

URL: https://www.pasternack.com/wide-antenna-25-dbi-gain-n-pe51pd1001-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.

# PE51PD1001 CAD Drawing

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