



## 2.4 GHz 25 dBi Dual & X-Polarized/Dual Feed Parabolic Dish Antenna

### Antennas Technical Data Sheet

PE51PD1006

#### 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°)
- Dual 12 inch antenna leads with terminated with N-Female connectors
- Includes tilt and swivel mast mount kit
- Optional radome cover kits available
- Perforated aluminum reflector dish helps reduce wind loading and features a UV stable light gray polymer finish

#### Applications

- 2.4 GHz ISM band
- IEEE 802.11b/g/n wireless LAN, WiFi systems
- Long range directional applications
- Point to point and point to multi-point applications
- Wireless bridges and backhaul applications

#### Description

The HyperLink PE51PD1006 is a high performance 22 dBi dual polarized parabolic dish antenna ideal for long range directional applications such as point to point systems, point to multi-point and wireless bridges. It is designed for use in the 2.4GHz ISM band as well as IEEE 802.11b/g/n wireless LAN systems.

The PE51PD1006 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 12 inch N-Female antenna leads, one for each polarized signals. This feature makes it ideal for MIMO/802.11n and polarization diversity systems. For outdoor 802.11n or MIMO applications, two polarization diverse antennas are required for the radio to operate at its highest data rate. These features make this antenna ideal for MIMO systems.

The reflector dish of the PE51PD1006 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. Supplied with the antenna is a tilt and swivel mast mount kit. This allows installation at various degrees of incline for easy alignment.

#### Configuration

Design	Reflector Dish
Band Type	Single
Radiation Pattern	Directional
Polarization	H/V or 45 Deg. Slant
Connector Type	N Female
Interface 2	N Female
Number of Ports	2
Lightning Protection	DC Ground

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		25		dBi
Front to Back Ratio		32		dB
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 25 dBi Dual & X-Polarized/Dual Feed Parabolic Dish Antenna PE51PD1006](#)



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#### Electrical Specification Notes:

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

#### Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2,400-2,500					MHz
Gain	25					dBi
Horizontal Beam Width	8.4					Degrees
Vertical Beam Width	8.4					Degrees
Maximum Input Power	100					Watts

#### Mechanical Specifications

##### Size

Overall Length	35.43 in [899.92 mm]
Width	35.43 in [899.92 mm]
Mounting Mast Diameter	1.57 to 2.36 in [39.88 to 59.94 mm]

#### Environmental Specifications

Wind Loading	130.5 MPH [210.02 KPH]
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#### Compliance Certifications (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

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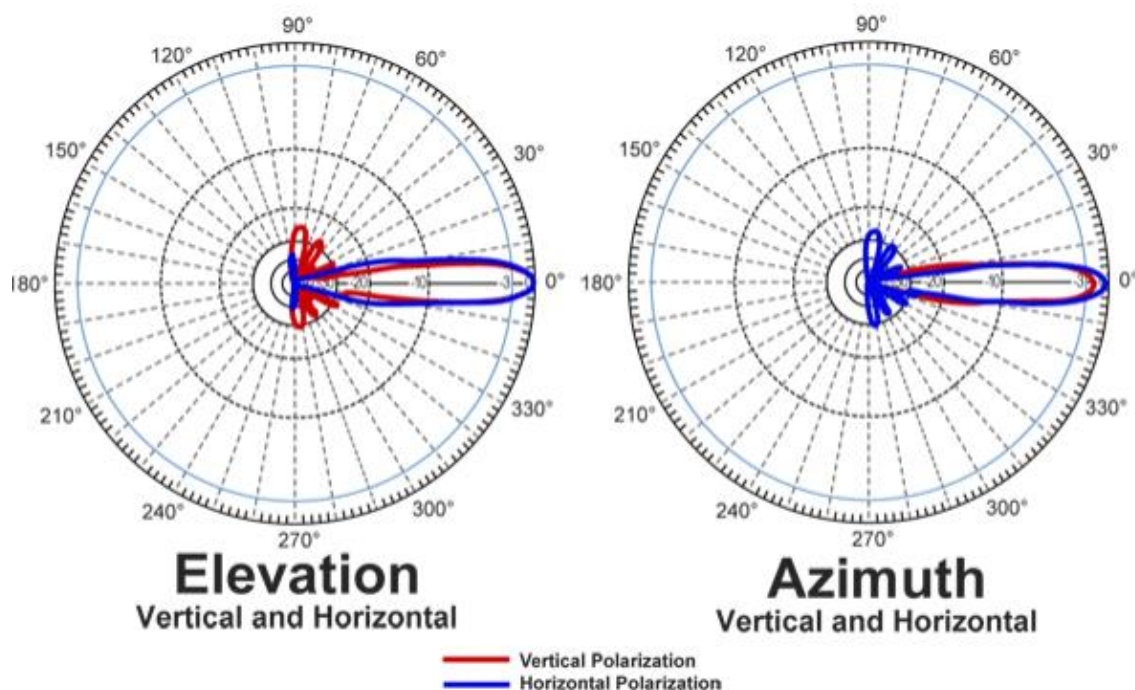


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Typical Radiation Pattern



2.4 GHz 25 dBi Dual & X-Polarized/Dual Feed Parabolic 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: [2.4 GHz 25 dBi Dual & X-Polarized/Dual Feed Parabolic Dish Antenna PE51PD1006](https://www.pasternack.com/single-antenna-25-dbi-gain-n-pe51pd1006-p.aspx)

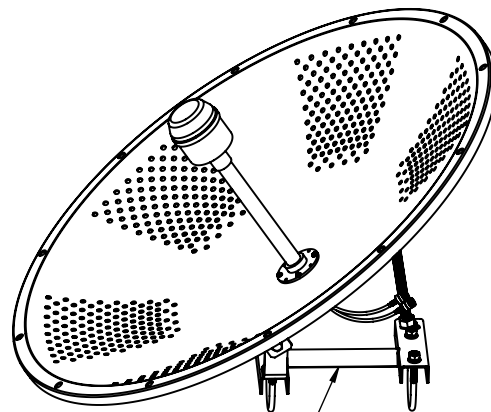
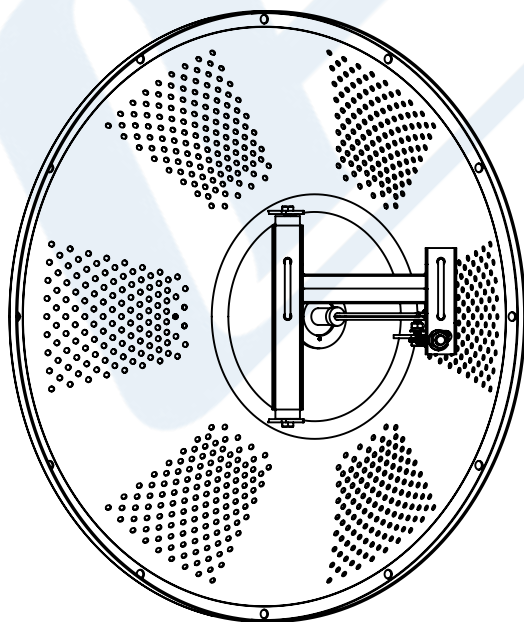
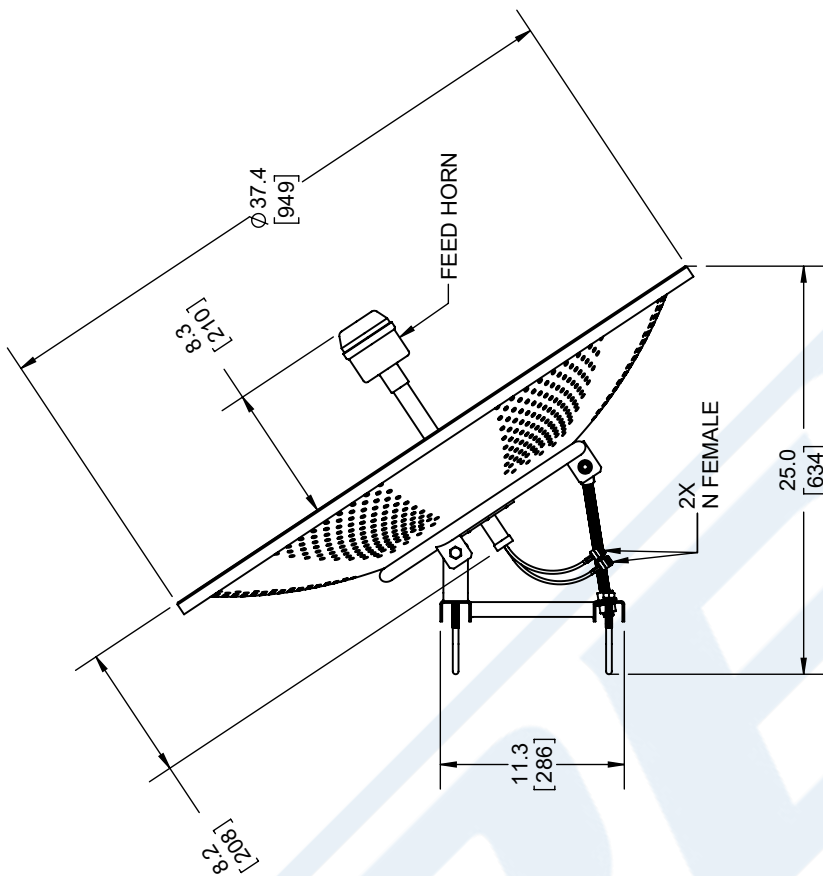
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# PE51PD1006 CAD Drawing

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



MOUNTING BRACKET  
WITH U-BOLTS

**REGULATORY COMPLIANCE:**

EU RoHS DIRECTIVE (MOST RECENT RELEASED VERSION)

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