

2.4 GHz 22 dBi Dual & X-Polarized/Dual Feed Parabolic Dish Antenna

Antennas Technical Data Sheet

Features

- Aluminum reflector dish with UV stable light gray polymer finish
- Dual 12 inch antenna leads with terminated with N-Female connectors
- Includes tilt and swivel mast mount kit

Applications

- 2.4 GHz ISM band
- IEEE 802.11b/g/n wireless LAN, WiFi systems
- Long range directional applications

- Optional radome cover kits available
- 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°)
- · Point to point and point to multi-point applications
- Wireless bridges and backhaul applications

Description

The HyperLink PE51PD1005 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 PE51PD1005 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 PE51PD1005 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.

| Configur | ation |
|----------|-------|
|----------|-------|

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

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---------------------|---------|---------|---------|-------|
| Input VSWR | | | 1.5:1 | |
| Impedance | | 50 | | Ohms |
| Gain | | 22 | | dBi |
| Front to Back Ratio | | 30 | | 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 22 dBi Dual & X-Polarized/Dual Feed Parabolic Dish Antenna PE51PD1005

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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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 | 22 | | | | | dBi |
| Horizontal Beam Width | 13 | | | | | Degees |
| Vertical Beam Width | 13 | | | | | Degees |
| Maximum Input Power | 100 | | | | | Watts |

Mechanical Specifications

| Size | |
|------------------------|-------------------------------------|
| Overall Length | 23.62 in [599.95 mm] |
| Width | 23.62 in [599.95 mm] |
| Mounting Mast Diameter | 1.57 to 2.36 in [39.88 to 59.94 mm] |
| Weight | 25.6 lbs [11.61 kg] |
| ő | |

Compliance Certifications (see product page for current document)

Plotted and Other Data Notes:

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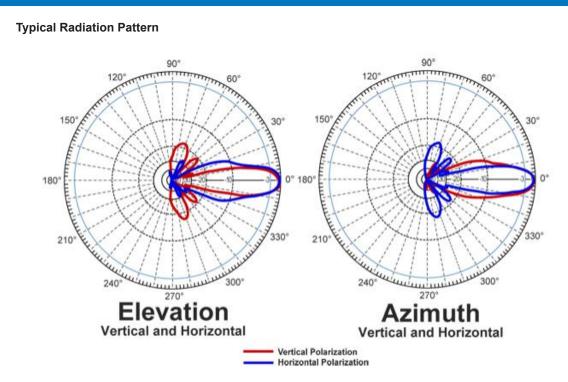


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URL: https://www.pasternack.com/single-antenna-22-dbi-gain-n-pe51pd1005-p.aspx

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PE51PD1005 CAD Drawing

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