



4.9-5.8 GHz Dual Polarized/X-Polarity 34dBi Dish Antenna

Antennas Technical Data Sheet

PE51PD1003

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
- **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

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

Description

The HyperLink model PE51PD1003 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 4.9GHz and 5GHz range (5.1/5.3/5.4/5.8GHz) 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 31 - 34 dBi of gain with a 3.3° horizontal beamwidth and 3.3° vertical beam-width.

The PE51PD1003 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 PE51PD1003 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. Perforated holes in the dish helps minimize wind loading.

The PE51PD1003 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

Electrical Specifications

Number of Ports

Description	Minimum	Typical	Maximum	Units
Input VSWR			1.5:1	
Impedance		50		Ohms
Front to Back Ratio		40		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: 4.9-5.8 GHz Dual Polarized/X-Polarity 34dBi Dish Antenna PE51PD1003

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Electrical Specification Notes:

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

Specifications by Band

Band 1	Band 2	Band 3	Band 4	Band 5	Units
4,750-5,850	5,400-5,800				MHz
34					dBi
3.3					Degees
3.3					Degees
100					Watts
	4,750-5,850 34 3.3 3.3	4,750-5,850 5,400-5,800 34 3.3 3.3	4,750-5,850 5,400-5,800 34 3.3 3.3	4,750-5,850 5,400-5,800 34 3.3 3.3	4,750-5,850 5,400-5,800 34 3.3 3.3

Mechanical Specifications

Size

Overall Length Width

Mounting Mast Diameter

Weight

35.43 in [899.92 mm] 35.43 in [899.92 mm]

1.6 to 3 in [40.64 to 76.20 mm]

25 lbs [11.34 kg]

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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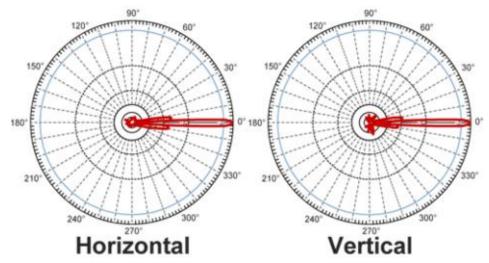


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Typical Radiation Pattern



4.9-5.8 GHz Dual Polarized/X-Polarity 34dBi 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.

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URL: https://www.pasternack.com/wide-antenna-0-gain-n-pe51pd1003-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.

PE51PD1003 CAD Drawing

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