



Antennas Technical Data Sheet

PE510M1011

Features

- · MIMO Multiple-Input and Multiple-Output
- · Dual polarity/dual frequency feed system in single enclosure
- · Separate inputs horizontal and vertical polarization
- · UV-Resistant radome for all-weather operation
- · Heavy duty industrial grade design

Applications

- 2.4/5 GHz IEEE 802.11a/b/g and 802.11ac applications
- Supports 1x2 and 2x2 MIMO AP/Routers
- · WiMax, WISP and WiFi applications

- · Wireless video systems
- · Point-to-multipoint applications

Description

The HyperLink PE51OM1011 is a professional high gain dual band/dual polarity omnidirectional base station antenna designed and optimized for 2.4 and 5 GHz frequencies. This antenna is ideally suited for multipoint applications where long range and wide coverage is desired.

The PE51OM1011 is actually two antennas in one, a 2.4/5 GHz horizontal polarized antenna and a 2.4/5 GHz vertical polarized antenna together in a single radome. Each polarization features separate dual band feeds, two N-Female connectors in total. This antenna incorporates advanced dual polarization technology that allows for the interoperability of two radio transmit and receive paths. This technology allows for the attenuation of unwanted signals from adjacent channels and/or co-located equipment.

The PE51OM1011 construction features a heavy-duty UV resistant PVCs radome for durability and aesthetics. Designed to operate in the harshest of environments, the PE51OM1011 far exceeds other omnidirectional antennas. The included mounting system features twin heavy-duty mounting clamps and bolts for superior strength.

Configuration

Design Omni **Band Type** Multi

Radiation Pattern Omni Directional Vertical/Horizontal Polarization N Female

Connector Type Interface 2 N Female

Number of Ports

Lightning Protection DC Ground

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,400		5,800	MHz
Impedance		50		Ohms
Isolation	28			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/ 5 GHz 11 dBi Dual Band / Polarized 2x2 Omni Antenna PE510M1011

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

Sales@Pasternack.com • Techsupport@Pasternack.com





Antennas Technical Data Sheet

PE510M1011

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2.4 to 2.5	5.1 to 5.8				GHz
Gain	6	11				dBi
Horizontal Beam Width	360	360				Degrees
Vertical Beam Width	25	6.5				Degrees
VSWR Max	1.6:1	1.9:1				
Maximum Input Power	100	100				Watts

Mechanical Specifications

Radome Material PVC

Size

 Overall Length
 49.2 in [124.97 cm]

 Width
 2.9 in [73.66 mm]

 Height
 2.9 in [73.66 mm]

Mounting Mast Diameter 1.6 to 3.5 in [40.64 to 88.90 mm]

Weight 8.2 lbs [3.72 kg]

Mechanical Specification Notes: Radome material is UV-resistant PVC.

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:



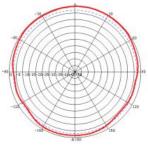


Antennas Technical Data Sheet

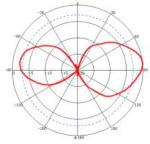
PE510M1011

RF Antenna Patterns

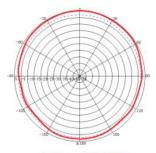
Horizontal Polarization



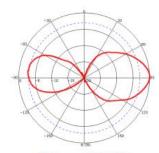
H-Plane: 2400 MHz



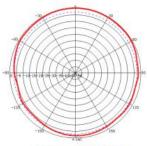
V-Plane: 2400 MHz



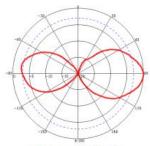
H-Plane: 2450 MHz



V-Plane: 2450 MHz



H-Plane: 2500 MHz



V-Plane: 2500 MHz

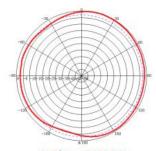




Antennas Technical Data Sheet

PE510M1011

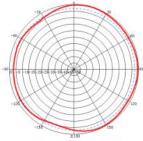
Horizontal Polarization



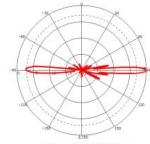
H-Plane: 5100 MHz



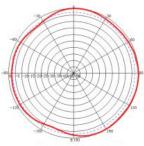
V-Plane: 5100 MHz



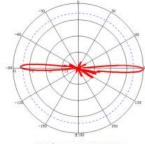
H-Plane: 5500 MHz



V-Plane: 5500 MHz



H-Plane: 5800 MHz



V-Plane: 5800 MHz

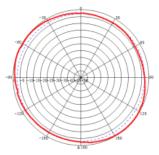




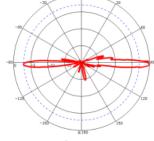
Antennas Technical Data Sheet

PE510M1011

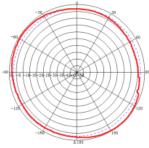
Vertical Polarization



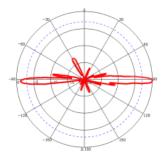
H-Plane: 5100 MHz



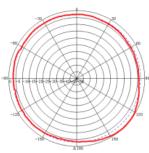
V-Plane: 5100 MHz



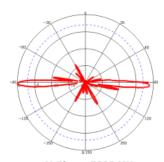
H-Plane: 5500 MHz



V-Plane: 5500 MHz



H-Plane: 5800 MHz



V-Plane: 5800 MHz

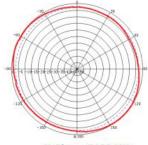




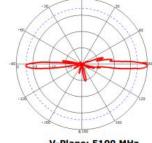
Antennas Technical Data Sheet

PE510M1011

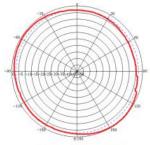
Vertical Polarization



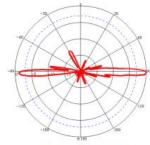
H-Plane: 5100 MHz



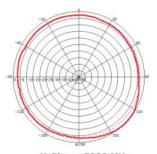
V-Plane: 5100 MHz



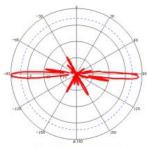
H-Plane: 5500 MHz



V-Plane: 5500 MHz



H-Plane: 5800 MHz



V-Plane: 5800 MHz





Antennas Technical Data Sheet

PE510M1011

2.4/ 5 GHz 11 dBi Dual Band / Polarized 2x2 Omni 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/ 5 GHz 11 dBi Dual Band / Polarized 2x2 Omni Antenna PE51OM1011

URL: https://www.pasternack.com/multi-antenna-0-dbi-gain-n-pe51om1011-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.

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

PE51OM1011 CAD Drawing

2.4/ 5 GHz 11 dBi Dual Band / Polarized 2x2 Omni Antenna

