



800/900 MHz 10 dBi Dual Slant Polarization Omni antenna

Antennas Technical Data Sheet

PE51OM1021

Features

- High gain (10 dBi) 900 MHz dual port omni
- Dual slant polarization ($\pm 45^\circ$)
- Heavy duty steel mounting bracket
- 1 degree electrical down tilt
- Integral N-female connectors

Applications

- WLAN, LPLAN, SCADA, IoT, M2M, cellular, MIMO
- Outdoor installations
- Point-to-multipoint

Description

Dual-port omnidirectional antenna for 900 MHz point to multipoint applications. This antenna provides high performance for a variety of wireless applications in the 900 MHz band including WLAN, WPLAN, IoT, M2M and cellular.

Configuration

Band Type	Dual
Radiation Pattern	Omni Directional
Polarization	Vertical/Horizontal
Cable Type	Coax lead
Connector Type	N Female
Connector Type Specification	Integral
Interface 2	N Female
Interface 2 Specification	Integral
Number of Ports	2

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	824		928	MHz
Input VSWR			1.7:1	
Impedance		50		Ohms
Gain		8.5		dBi
Input Power			100	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	0.824 to 0.928	0.9 to 0.928				GHz
Center Frequency	876					MHz
Gain	8.5	10				dBi
Horizontal Beam Width	360	360				Degrees
Vertical Beam Width	15	15				Degrees
VSWR Max	1.7:1	1.5:1				
Maximum Input Power	100	100				Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [800/900 MHz 10 dBi Dual Slant Polarization Omni antenna PE51OM1021](#)



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Mechanical Specifications

Radome Material

Fiberglass

Size

Overall Length

56.7 in [144.02 cm]

Width

9.8 in [248.92 mm]

Height

9.8 in [248.92 mm]

Mounting Mast Diameter

1.2 to 4.7 in [30.48 to 119.38 mm]

Weight

15 lbs [6.8 kg]

Environmental Specifications

Temperature

Operating Range

-40 to +65 deg C

Wind Loading

130 MPH [209.21 KPH]

ESD Protection

IP55

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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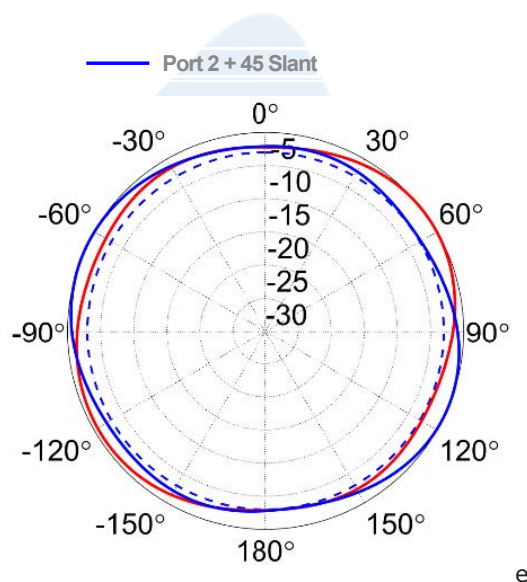
Antennas Technical Data Sheet

PE510M1021

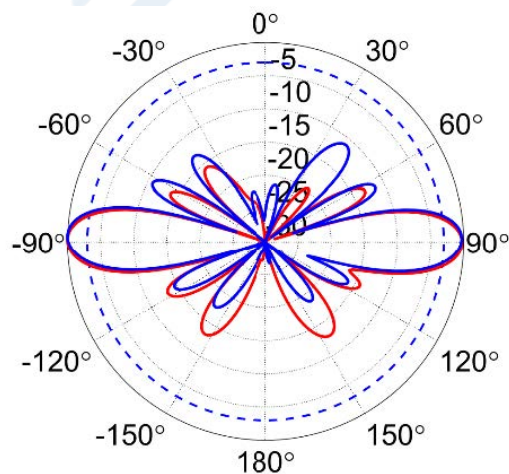
Horizontal (Azimuth) Pattern

— Port 1 - 45 Slant

— Port 2 + 45 Slant



Vertical (Elevation) Pattern



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [800/900 MHz 10 dBi Dual Slant Polarization Omni antenna PE510M1021](#)



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PE51OM1021

800/900 MHz 10 dBi Dual Slant Polarization 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.

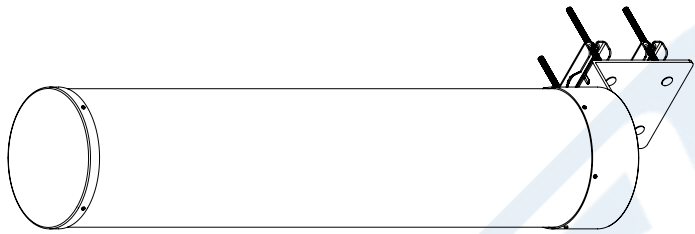
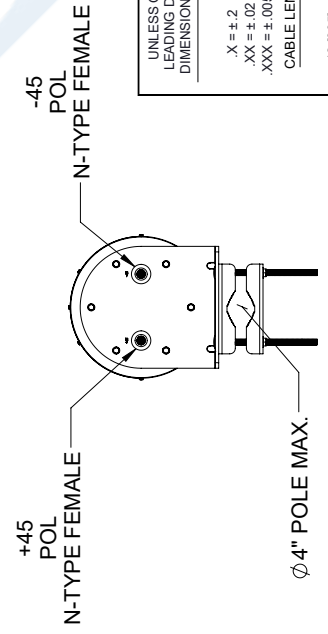
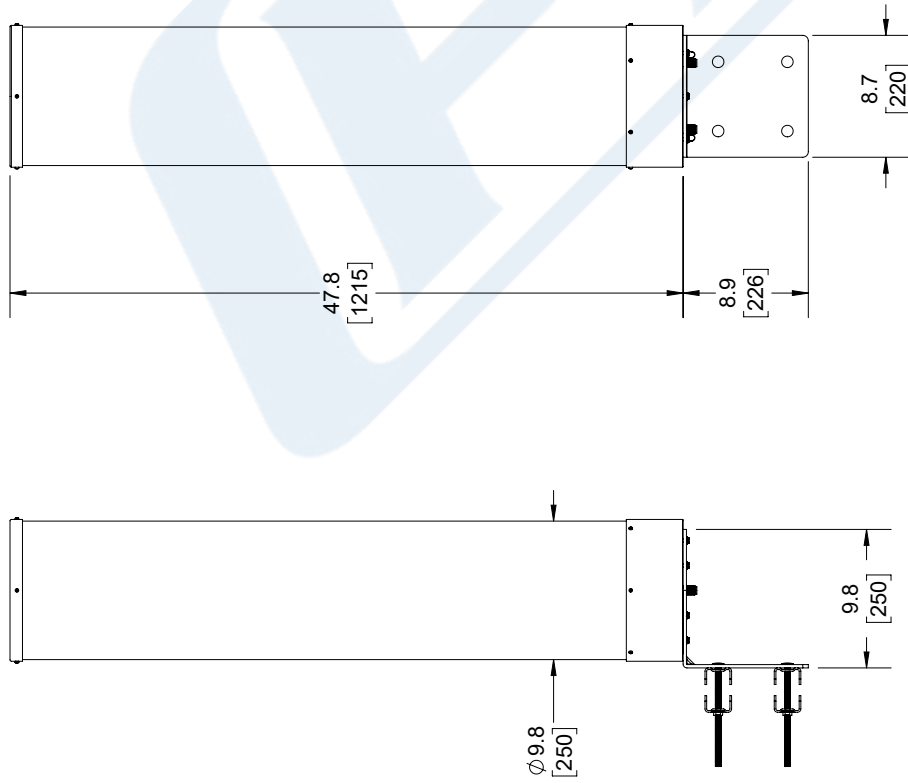
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [800/900 MHz 10 dBi Dual Slant Polarization Omni antenna PE51OM1021](https://www.pasternack.com/dual-antenna-824-928-mhz-8.5-dbi-gain-n-pe51om1021-p.aspx)

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PE51OM1021 CAD Drawing
800/900 MHz 10 dBi Dual Slant Polarization Omni antenna

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	ADJUST CONNECTOR TO FEMALE	5/5/22	KHIETPAS



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
X = ± .2 [5.08] FRACTIONS
.XX = ± .02 [.51] ± 1/32
.XXX = ± .005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:
L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

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Pasternack Enterprises, Inc.
P.O. Box 16759, Irvine, CA 92623.
Phone: 1.949.261.1920 | 1.866.727.8376
Fax: 1.949.261.7451
Website: www.pasternack.com
E-mail: sales@pasternack.com

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SHEET 1 OF 1

SCALE N/A

SIZE A CAGE CODE 53919 DRAWN BY K.DANG ITEM NO. PE51OM1021 REV B

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