



Mesh Series™ Vertically Polarized Omni 2.4GHz to 5.85GHz

Features

- Mesh Networking Vertically Polarized Omnidirectionals
- Various Gains Available: 5dBi to 12dBi
- Various Frequencies Available: 2.4GHz 3.5GHz, 4.9GHz, 5GHz, also Tri-Band Model
- Type N Male Integrated Connector
- Rugged, Lightweight and Waterproof

Applications

- Mesh Networking Applications
- 2 to 6 GHz wireless applications
- Point to Multi-point Systems
- Base Station Antennas
- WiFi Access Points
- Wimax Base Stations



Description

The Mesh Series™ Omni Directional antenna systems offered by Pacific Wireless are designed with Mesh Networking in mind. With their waterproof N Male connector they can be easily mounted to an enclosure like the Pacific Wireless Die Cast Enclosure to give total wireless coverage. Various gains and frequencies are available. They are constructed of UV resistant materials and are waterproof for a long service life.

Specifications

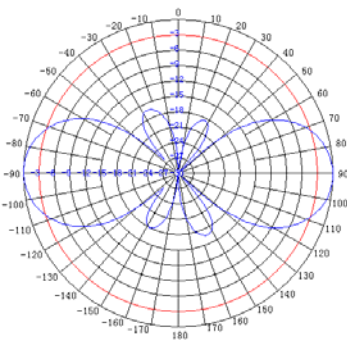
| Parameter | Min | Typ | Max | Units |
|------------------------------|-----|-------|----------|-------------|
| VSWR | | 1.5:1 | | |
| Impedance | | 50 | | OHM |
| Input Power | | | 10 | W |
| Rated Wind Velocity | | | 125 (56) | mph (m/sec) |
| Operating Temperature | -40 | | +70 | Deg C |

OD5WM-6
Wide Band
Mesh Omni

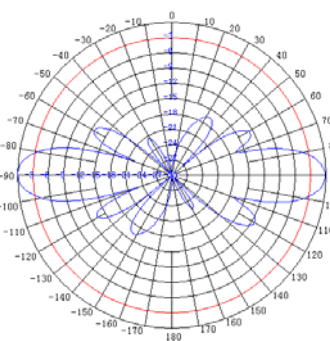
Typical Application
PAW-DCE with Mesh Omni

| Model | Frequency (MHz) | Gain | Vert BW | Weight | Dim (L x dia) |
|--------------------|-------------------------------|----------------------|---------|-----------------|-------------------------|
| OD24M-5 | 2400-2485 | 5dBi | 25 deg | 0.7 lbs (0.3kg) | 14x0.6" (355x15mm) |
| OD24M-7 | 2400-2485 | 7dBi | 18 deg | 0.9 lbs (0.4kg) | 21x0.6" (540x15mm) |
| OD24M-9 | 2400-2485 | 9dBi | 14 deg | 1.1 Lbs (0.5kg) | 27x0.6" (690x15mm) |
| OD24M-12 | 2400-2485 | 12dBi | 7 deg | 1.4 Lbs (0.6kg) | 48x0.6" (1220x15mm) |
| OD35M-10 | 3400-3600 | 10dBi | 14 deg | 1.1 Lbs (0.5kg) | 27x0.6" (690x15mm) |
| OD49M-6 | 4940-4990 | 6dBi | 30 deg | 1.5oz (43g) | 7x 0.5" (175x13mm) |
| OD49M-11 | 4940-4990 | 11dBi | 5 deg | 1.1 Lbs (0.5kg) | 31x0.6" (787x15mm) |
| OD5WM-6 | 5150-5850 | 6dBi | 8.5 deg | 5oz (0.14kg) | 19x0.6" (483x15mm) |
| OD58M-12 | 5400-5850 | 12dBi | 7 deg | 1.1 Lbs (0.5kg) | 27.5x0.6" (700x15mm) |
| RD2458-5-NM | 2400-2485,5150-5350,5725-5850 | 2dBi@2.4 5dBi@5.8 | 120 deg | 1.6oz (45.4g) | 7.6x0.5" (193 x 12.7mm) |

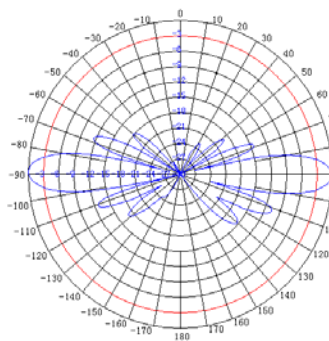
Antenna Patterns



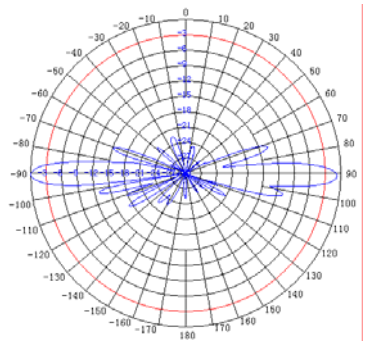
OD24M-5 E-Plane



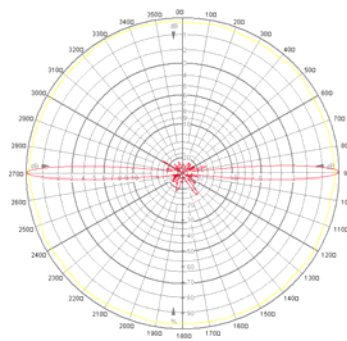
OD24M-7 E-Plane



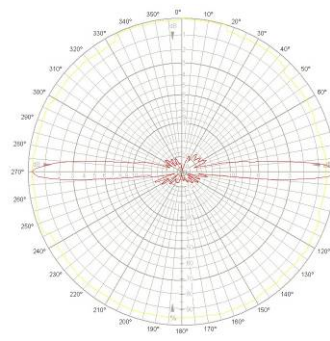
OD24M-9 E-Plane



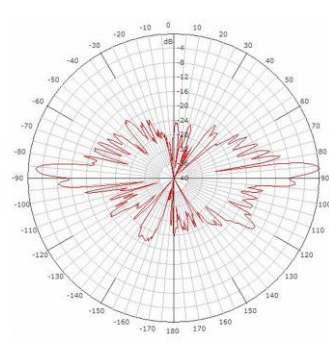
OD24M-12 E-Plane



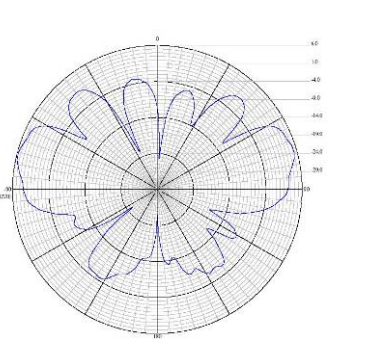
OD58M-12



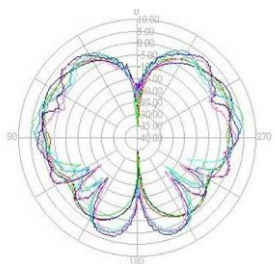
OD5WM-6



OD49M-11D1 E-Plane



OD49M-6 E-Plane



RD2458-5-NM E-Plane

Notes:

- All shipments F.O.B. Pacific Wireless Bluffdale, UT 84065
- All antennas carry a 2 Year Warranty

System Ordering: OD□□M-□

Frequency

24 = 2400 to 2485MHz
 35 = 3400 to 3600 MHz
 49 = 4940 to 4990 MHz
 58 = 5400 to 5858 MHz
 5W = 5150 to 5850 MHz

Antenna Gain

5 = 5dBi
 12 = 12dBi
 Etc.

Suggested Accessory



New N Female extended
 Bulkhead to SMA Female
 adapter for mounting a
 Mesh Omni in an
 enclosure
 # AD-NFB-SMAF

* RD2458-5-NM 5dBi 2400,5300,5800MHz Tri Band Rubber Duck

For further information contact:



Pacific Wireless

14575 South Centerpoint Way
 Bluffdale, UT 84065
 TEL (801) 572-3024
 FAX (801) 572-3025
www.pacwireless.com



Mesh Series™ Vertically Polarized Omni

5150 to 5850 MHz Operation

Features

- 6 dBi Antenna Gain in a Slimline Package
- Type N Male Integrated Connector
- Rugged, Lightweight and Waterproof

Applications

- 5.1 to 5.8 GHz Mesh Applications
- 802.11a Wireless Systems
- Point to Multi-point Systems
- Base Station Antennas
- Wireless Broadband Systems
- WiFi Access Points

Description

The 5GHz Wide Band Mesh Series Omni Directional antenna offered by Pacific Wireless is constructed of White color UV-stable fiberglass and stainless steel base. They have Type N Male connectors for direct connection to wireless enclosures. The horizontal pattern is a full 360 degrees with gain flatness better than 1dB. Because of it's slimline design and low wind loading characteristics, multiple antennas can be used on a single enclosure, enabling multi antenna diversity and MIMO technologies used in many modern mesh networking systems.

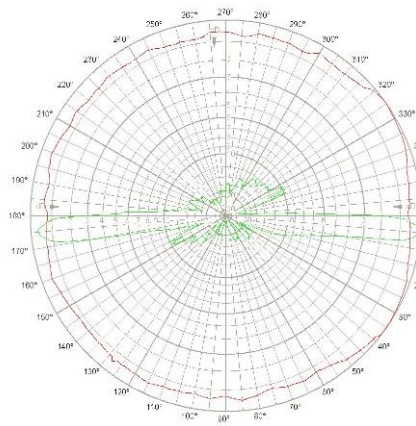
Specifications

| Parameter | Min | Typ | Max | Units |
|------------------------------|---------------------|-------|------|-------------|
| Frequency Range | 5150 | | 5850 | MHz |
| Gain | | 6 | | dBi |
| Horizontal Beamwidth | | 360 | | deg |
| Vertical Beam Width | | 8.5 | | deg |
| VSWR | | 1.5:1 | | |
| Impedance | | 50 | | OHM |
| Input Power | | | 100 | W |
| Operating Temperature | -40 | | +70 | Deg C |
| Rated Wind Velocity | 125 (56) | | | Mph (M/sec) |
| Dimensions | 19 x 0.6 (483 x 15) | | | In (mm) |
| Weight | 5 (0.14) | | | oz(kg) |
| Lightning Protection | DC Ground | | | |



*Typical
Application*

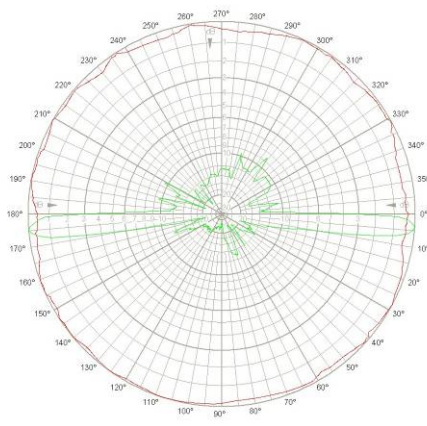
Antenna Patterns at 5GHz



5150MHz

--- E Plane

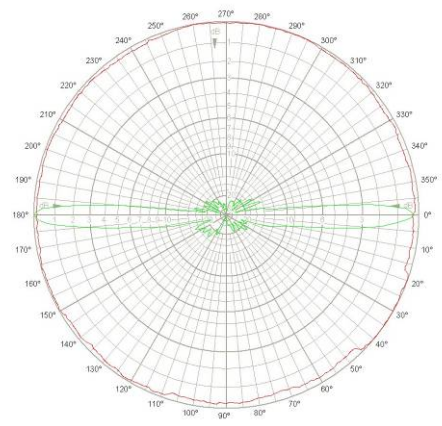
--- H Plane



5470MHz

--- E Plane

--- H Plane



5850MHz

--- E Plane

--- H Plane

Wind Loading

| | |
|--------|---------|
| 100MPH | 1.9 Lbs |
| 125MPH | 3 Lbs |

Suggested Accessory



New N Female extended
Bulkhead to SMA Female
adapter for mounting a
Mesh Omni in an
enclosure
AD-NFB-SMAF

Notes:

- All shipments F.O.B. Pacific Wireless Bluffdale, UT 84065
- All antennas carry a 2 Year Warranty

System Ordering:

OD5WM-6 6dBi 5150-5850Mhz Wideband Omnidirectional Antenna

For further information contact:



Pacific Wireless

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www.pacwireless.com



NLOS Series Vertically Polarized Omni 860 to 960 MHz Operation

Features

- 900MHz Omni Directional Antenna
- Available in 5, 6, 8 and 11dBi gain models
- 1degree electrical downtilt available on the 11dBi model
- UV Stabilized Fiberglass / Stainless Steel Construction
- 18" Pigtail with Type N Female Connector Standard (6dBi and 8dBi Models Only)

Applications

- 900 MHz ISM Band Applications
- Non Line of Sight Applications
- WISP Base Station Equipment
- Cellular Applications

Description

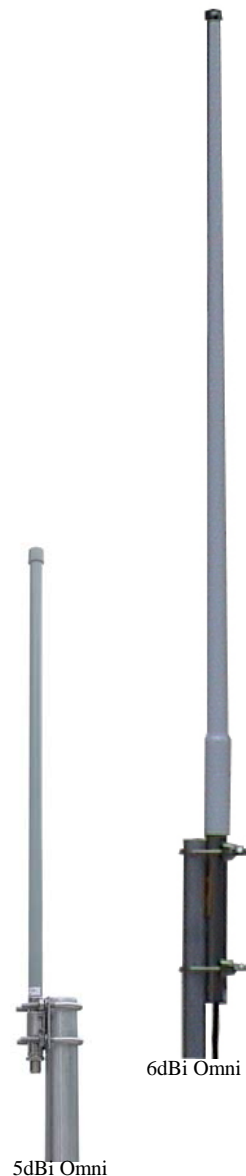
The NLOS Series Omnidirectional Antenna system offered by Pacific Wireless are constructed of UV stabilized fiberglass and Stainless Steel for long service life. Mounting is easy with a dual u-bolt mounting system. The antennas are vertically polarized. The 6dBi and 8dBi come standard with 18" pigtails terminated in an N female connector. The 5dBi and 11dBi comes standard with an integrated N Female connector. The omni's are DC grounded for lightning protection. The 11dBi omni is available with 1 deg electrical downtilt which provides null fill and improved close-in coverage.

Specifications

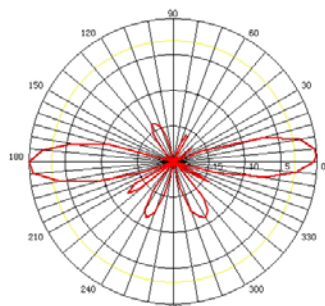
| Parameter | Min | Typ | Max | Units |
|------------------------------|--------|-------|----------|-------------|
| VSWR | | 1.5:1 | | |
| Impedance | | 50 | | OHM |
| Input Power | | | 100 | W |
| Pole Diameter (OD) | 1 (25) | | 2 (51) | Inch (mm) |
| Operating Temperature | -45 | | +70 | Deg C |
| Rated Wind Velocity | | | 125 (56) | Mph (m/sec) |

*Note: Pacific Wireless does not supply the mounting pole

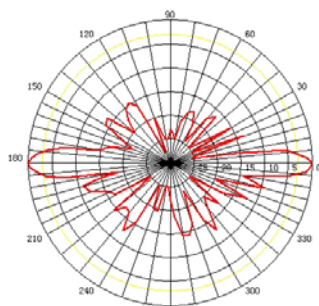
| | OD9-5 | OD9-6 | OD9-8 | OD9-11 | OD9-11D1 |
|--|-----------------|------------------|------------------|------------------|------------------|
| Gain | 5dBi | 6dBi | 8dBi | 11dBi | 11dBi |
| VSWR 1.5:1 Bandwidth | 890 – 950 MHz | 865-945 MHz | 865-945MHz | 860-960MHz | 860-960MHz |
| VSWR 2.0:1 Bandwidth | | 860-960 MHz | 860-960MHz | | |
| Vertical 3dB Beamwidth | 36 Deg | 16 deg | 10 deg | 7 deg | 7 deg |
| Electrical Downtilt | 0 | 0 | 0 | 0 | 1 deg |
| Weight | 1.3 Lbs (.6 Kg) | 5.4 Lbs (2.0 Kg) | 6.7 Lbs (2.5 Kg) | 9.4 Lbs (3.5 Kg) | 9.4 Lbs (3.5 Kg) |
| Length Dimension <i>Diameter = ~1.5" (38 mm)</i> | 24" (610 mm) | 5.6' (1.7 m) | 8.5' (2.6 m) | 11' (3.4 m) | 11' (3.4 m) |



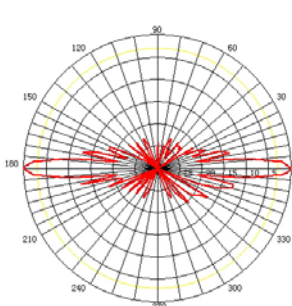
Antenna Patterns at 910 MHz



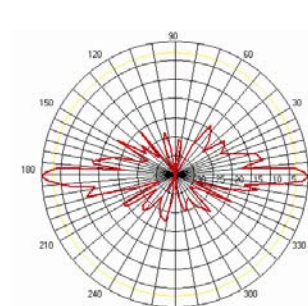
OD9-6 E



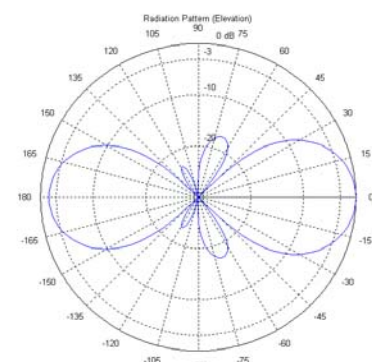
OD9-8 E



OD9-11 E



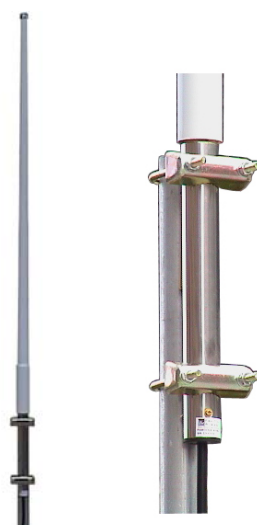
OD9-11D1 E Plane



OD9-5 E

Notes:

- All shipments F.O.B. Bluffdale, UT 84065
- All antennas carry a 2 Year Warranty



OD9-6, OD9-8, OD9-11



OD9-5

System Ordering:

| | |
|----------|---|
| OD9-5 | 5dBi Slimline NLOS Series 900MHz Omni Antenna with N Female Bulkhead Connector |
| OD9-6 | 6dBi NLOS Series 900MHz Omni Antenna with 18" Pigtail/N Female Connector |
| OD9-8 | 8dBi NLOS Series 900MHz Omni Antenna with 18" pigtail N Female Connector |
| OD9-11 | 11dBi NLOS Series 900MHz Omni Antenna with Integrated N Female Connector |
| OD9-11D1 | 11dBi 1deg elec downtilt NLOS Series 900MHz Omni Antenna with Integrated N Female Connector |

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