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## Vertically Polarized Omni Antennas 2400 to 2485 MHz Operation

The omnidirectional antenna systems offered by Laird Technologies are constructed of UV-stable fiberglass with all stainless steel brackets standard. They come standard with type N female bulkhead connectors with extra heavy duty nuts for optional standoff type mounting. The 7dBi has a 5 deg electrical downtilt standard which is perfect for close-in wireless systems such as apartment complexes. Because of their unique high performance design which eliminates nulls, they can be used in a wide variety of wireless systems.

### Features and Benefits:

- 9 and 12 dBi antenna gain
- 12dB has 3 deg electrical downtilt standard
- 9dBi has 0 deg or 7deg electrical downtilt options
- Type N female integrated bulkhead connector
- 12dB has optional 24" pigtail with N male or N female connector
- Rugged, lightweight and waterproof

### Applications

- 2.4 GHz ISM band applications
- Base station antennas
- 802.11b and 802.11g wireless systems
- Point to multi-point systems
- Wireless broadband systems
- WiFi access points

For sales information:

Telephone 801-572-3024

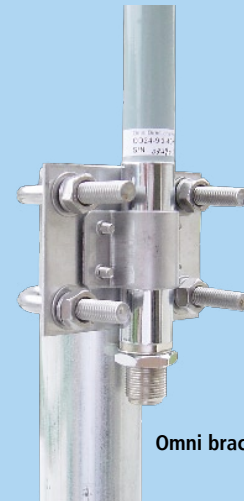
E-Mail [sales@pacwireless.com](mailto:sales@pacwireless.com)

or visit: [www.pacwireless.com](http://www.pacwireless.com)

## Specifications

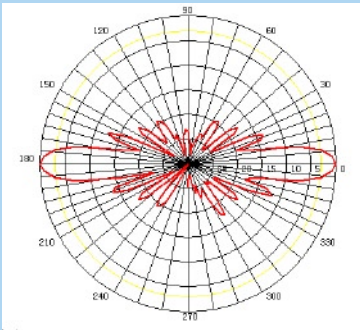
Parameter	Min	Typ	Max	Units
Frequency Range	2400		2485	MHz
Input Return Loss (S11)		-14		dB
VSWR		1.5:1		
Impedance		50		OHM
Input Power			100	W
Pole Diameter (OD)	1 (25)		2 (50)	In (mm)
Operating Temperature	-40		+70	Deg C
<b>2400-2485MHz</b>	<b>OD24-9</b>		<b>OD24-12</b>	
Gain	9dBi		12dBi	
Vertical Beam Width	14deg		7 deg	
Electrical Downtilt	0 deg or 7 deg		3 deg	
Rated Wind Velocity	125mph (56 M/sec)		125mph (56 M/sec)	
Weight	1.1 Lbs (0.5Kg)		1.4 Lbs (0.6Kg)	
Dimension (L +/-1.0") Diameter Approx. 0.6" (15mm)	27" (69cm)		48" (122cm)	

Wind Loading	
100MPH	8.75 Lbs
125MPH	13.7 Lbs

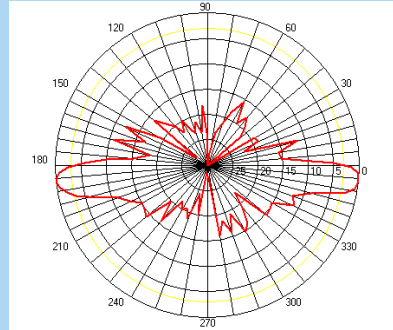


Omni bracket close up

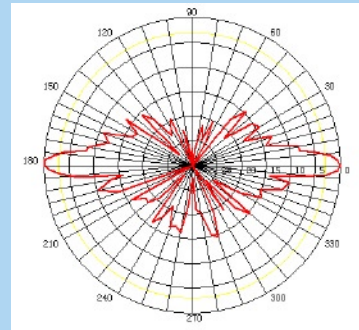
## Antenna Patterns



9dB Vertical Antenna Pattern  
0 Deg Elec Downtilt – E Plane



9dB Vertical Antenna Pattern  
7 Deg Elec Downtilt – E Plane



12dB Vertical Antenna Pattern  
3 Deg Elec Downtilt – E Plane

## System Ordering:

OD24- 9	2.4GHz 9dBi omni antenna
OD24-9D7	2.4GHz 9dBi omni antenna with 5 deg electrical downtilt
OD24- 12	2.4GHz 12dBi omni antenna with 3 deg electrical downtilt
OD24-12P	2.4GHz 12dBi omni antenna with 5 deg electrical downtilt - N male pigtail
OD24-12PF	2.4GHz 12dBi omni antenna with 5 deg electrical downtilt - N female pigtail

## Notes:

- All shipments F.O.B. Schaumburg, IL 60173
- All antennas carry a 2 Year Warranty

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*Specifications subject to change without notice.*



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