

### 2400-2485 MHZ VERTICALLY POLARIZED OMNI-DIRECTIONAL ANTENNA

The omni-directional 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

- 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

#### MARKETS

- 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

PARAMETER	OD24-9	OD24-12
Frequency range	2400-2485 MHz	2400-2485 MHz
Input return loss (S11)	-14 dB	-14 dB
VSWR	1.5:1	1.5:1
Impedance	50 ohm	50 ohm
Input power	100W	100W
Pole diameter (OD)	1" - 2" (25-51mm)	1" - 2" (25-51mm)
Operating temperature	-40 - +70°C	-40 - +70°C
Rated wind velocity	125 mph (56 m/sec)	125 mph (56 m/sec)
Gain	9dBi	12dBi
Vertical beamwidth	14°	7°
Electrical downtilt	0° or 7°	3°
Weight	1.1 lbs (0.5kg)	1.4 lbs (0.6kg)
Length +/- 1.0 in	27 in (69 cm)	48 in (122 cm)
Diameter	0.6 in (15 mm)	0.6 in (15 mm)

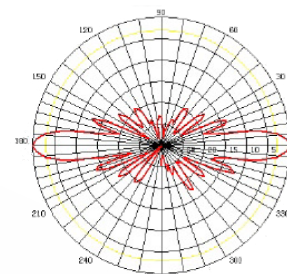
#### WIND LOADING

MODEL	100 MPH	125 MPH
OD24	8.75 lb	13.7 lb

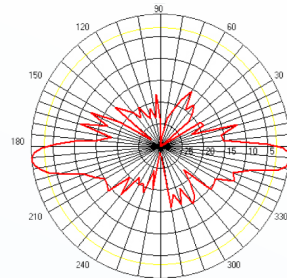
#### SYSTEM ORDERING

- 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

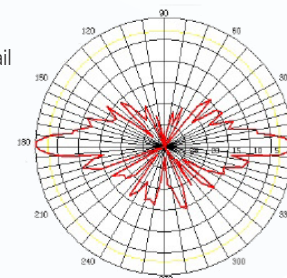
#### ANTENNA PATTERN



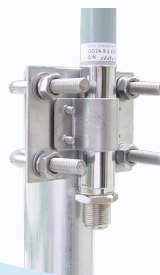
9dB Vertical Antenna Pattern  
0 Deg Elec Downtilt - E Plane



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



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



ANT-DS-PAWOD24 0809

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Americas: +1.847.839.6907  
IAS-AmericasEastSales@lairdtech.com

Europe: +1.32.80.7866.12  
IAS-EUSales@lairdtech.com

Asia: +1.65.6.243.8022  
IAS-AsiaSales@lairdtech.com

www.lairdtech.com

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