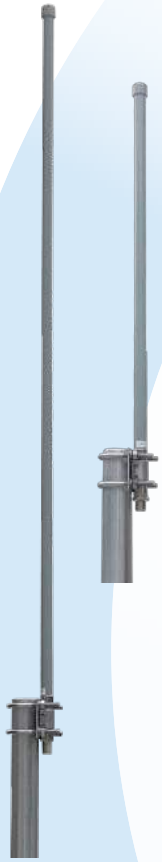
Laird TECHNOLOGIES

Innovative **Technology** for a **Connected** World

# VERTICALLY POLARIZED OMNI ANTENNAS

## OD24



## 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 RoHS

- 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) |

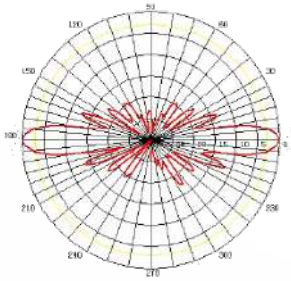
### WIND LOADING

| MODEL | 100 MPH | 125 MPH |
|---|---|---|
| OD24 | 8.75 lb | 13.7 lb |

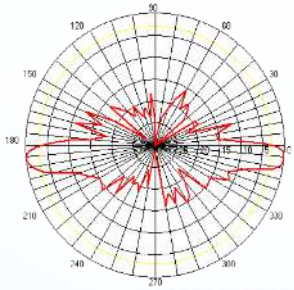
### SYSTEM ORDERING

| | |
|---|---|
| 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 |

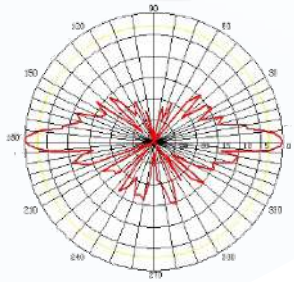
### ANTENNA PATTERN



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

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