

WiBORNE, INC.

Long Range High Performance 4.9GHz - 5 GHz Antenna

29 dBi 4.9GHz - 5GHz High Data Rate Dual Polarity Dish Antenna for WISP



The new OA-5029HD dish antennas offered by WiBorne offer the system engineer the best performance available on the market. The antennas meet ETSI EN 302 085 TS4 and EN 300 833 Class 1 specifications, the most stringent specifications for point to point backhaul antennas. The unique feed system is available in a single polarization version which can be mounted for either vertical or horizontal polarization. There is also a dual polarized version available for those systems which can utilize dual polarization to increase bandwidth or implement diversity. An optional fiberglass radome is available for added environmental protection.

- Vertical or Horizontally Polarized
- Wide Band Operation 4900-5875MHz for
- Dual Polarity for OFDM or MIMO
- Ultraslow Sidelobes, Meets ETSI Standards
- Extremely Rugged for long service life in extreme environments

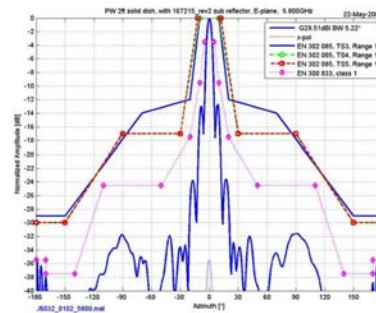
General Specifications

| | |
|------------------------|--|
| Part Number | OA-5029HD for 29 dBi 5GHz |
| Type | Special High Gain Directional Antenna |
| Product Narrative | High Gain, High Data Rate Noise-Reducing <i>Rejection of Interference</i> Geometric Spatial Capture of Signal |
| General Freq.(MHz) | 4900 – 5875 |
| Impedance | 50 OHM |
| Available Gain(dBi) | 29 dBi |
| Max. Input Power | 100 Watts |
| Beamwidth (deg.) | 6 |
| Sidelobes | ETSI EN 302.326-3 DN1-DN5, ETSI EN 300.833 class 1 |
| Front to Back (dB) | > 32 |
| Cross Pole Suppression | > 30 dB |
| VSWR | 1.5 : 1 (single pol.); 1.8 : 1 (dual pol.) |
| Mechanical Downtilt | 30 deg |
| Port-to-port isolation | > 30 dB (dual Pol) |
| Operating Temp. | -40 to +70 deg C |
| Weight | 17.6lb (8kg) |
| Pole Diameter (OD) | Min 2" (50); Max 4" (101.6) (inch/mm) |
| Wind Load | 5029HD: 113 |
| (lbs) | 5029HD: 177 |
| w/Radome | 5029HD: 75 |
| | 5029HD: 116 |
| Termination | Type N Female Integrated Connector |
| Dimension (Dia) | 25.5 (648mm) |

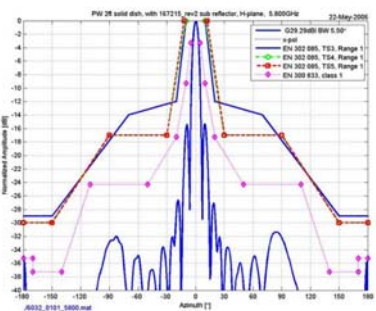
Applications

- 802.11a Wireless Applications
- OFDM Systems
- Cellular or Public safety communications
- Point to Point Backhaul

5.8GHz E-plane



5.8GHz H-plane



Dual Polarized Feed



Optional Radome