

WiBORNE, INC.

Long Range High Performance 5 GHz Antenna

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



The new OA-5029 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 4950 - 5875MHz for
- Dual Polarity for OFDM or MIMO
- Ultraslow Sidelobes, Meets ETSI Standards
- Extremely Rugged for long service life in extreme environments

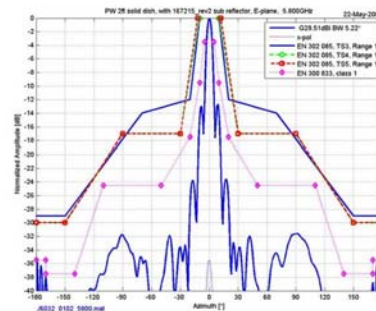
General Specifications

Part Number	OA-5029 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)	4950 – 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	5029: 113
100MPH (lbs)	5029: 177
w/Radome	5029: 75
125MPH	5029: 116
Termination	Type N Female Integrated Connector
Dimension (Dia)	25.5 (648mm)

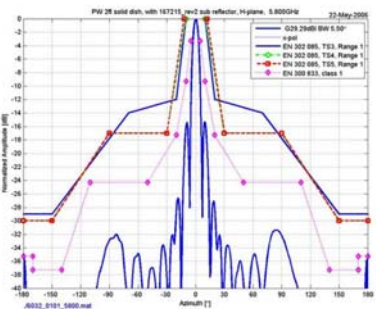
Applications

- 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