



# HD SERIES™ HIGH PERFORMANCE DISH ANTENNA

## HDDA5W



### 4900 TO 5875 MHz HIGH PERFORMANCE DISH ANTENNA

The new HD Series dish antennas offered by Laird Technologies offer the system engineer the best performance available on the market. The antennas meet ETSI EN 302.326-3 DN1-DN5 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.

### FEATURES

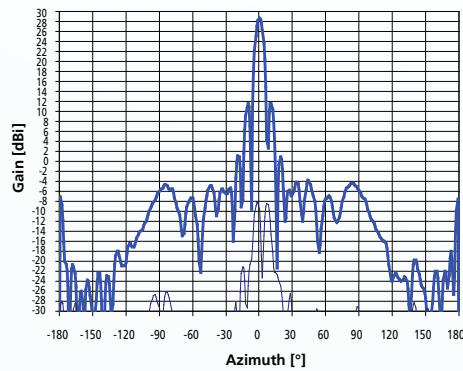
- Wide band operation
- Vertically or horizontally polarized
- Dual horizontal / vertical and dual-slant polarity models available
- Ultralow sidelobes, meets ETSI standards
- Extremely rugged for long service life in extreme environments

### MARKETS

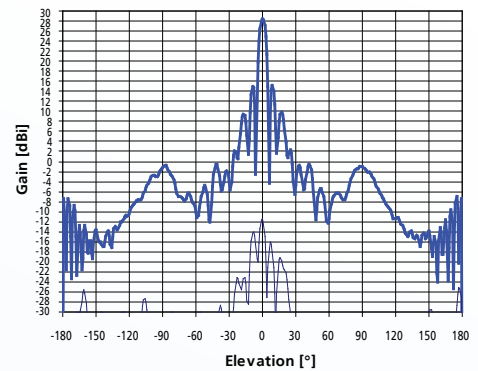
- 802.11 applications
- OFDM systems
- MIMO systems
- Cellular backhaul
- Point-to-point backhaul
- Public safety communications
- WiMAX

### TYPICAL ANTENNA PATTERNS

5.7 GHz H-Plane



5.7 GHz E-Plane



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## HDDA5W

### SPECIFICATIONS

PARAMETER	MIN	TYP	MAX	UNITS
Frequency range (single pol.)	4900		5875	MHz
Frequency range (dual pol.)	4940		5875	MHz
VSWR (single pol.)		1.5:1		
VSWR (dual pol.)		1.8:1		
Impedance		50		OHM
Cross-pol suppression		>30		dB
Sidelobes		ETSI EN 302.326-3 DN1-DN5		
Port-to-port isolation (dual pol.)		>30		dB
Input power			100	W
Mechanical downtilt			30	deg
Pole diameter (OD)	2 (50)		4 (101.6)	inch (mm)
Operating temperature	-40		+70	°C

PARAMETER	HDDA5W-29-xx	HDDA5W-32-xx
Gain	29 dBi	32 dBi
Beamwidth	6°	4°
Front-to-back	>32 dB	>38 dB
Weight	8 kg	10 kg
Dimensions (diameter)	25.5 in (648 mm)	36.5 in (927 mm)

### SYSTEM ORDERING

HDDA5W-29-SP 29 dBi single polarity with N female connector  
 HDDA5W-29-DP2 29 dBi dual polarity with N female connector  
 HDDA5W-32-SP 32 dBi single polarity with N female connector  
 HDDA5W-32-DP2 32 dBi dual polarity with N female connector  
 DA5-29RADOME Fiberglass Radome Cover for 2ft (0.3m) dish  
 DA5-32RADOME Fiberglass Radome Cover for 3ft (0.6m) dish

### WIND LOADING (LBS.)

MODEL	100MPH	125MPH
HDDA5W-29	113	177
HDDA5W-29 with Radome	75	116
HDDA5W-32	256	400
HDDA5W-32 with Radome	111	174

### NOTES

- All shipments F.O.B. Schaumburg, IL 60173



Dish antenna shown with optional radome

ANT-DS-HDDA5W 0113

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