



global solutions :
local support™

HD Series™ High Performance Dish Antennas 4900 to 5875 MHz Operation

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 302 085 TS4/TS5 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.

Features and Benefits:

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

Applications

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

For sales information:

Americas +1 847-839-6907
IAS-AmericasEastSales@lairdtech.com
Asia +1-65-6-243-8022
IAS-AsiaSales@lairdtech.com
Europe +1-32-80-7866-12
IAS-EUSales@lairdtech.com



Specifications

Parameter	Min	Typ	Max	Units
Frequency Range (Single Pol.)	4900		5875	MHz
Frequency Range (Dual Pol.)	5150		5850	MHz
VSWR (Single Pol.)		1.5:1		
VSWR (Dual Pol.)		1.8:1		
Impedance		50		OHM
Port-to-port Isolation (Dual Pol.)		40		dB
Input Power			100	W
Mechanical Downtilt			30	deg
Pole Diameter (OD)	2" (50)		4" (101.6)	Inch (mm)
Operating Temperature	-40		+70	Deg C

Parameter	HDDA5W-29-xx	HDDA5W-32-xx
Gain	29dBi	32 dBi
Beam Width	6 deg	4 deg
Sidelobes	-32dB	-32 dB
Front to Back	-32dB	-38 dB
Cross Pole	-32dB	-34dB
Weight	11lb (5kg)	22lb (10kg)
Dimensions (Diameter)	25.5 (648mm)	36.5 (927mm)

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

System Ordering:

- HDDA5W-29 - 29dBi single polarity (H or V)
- HDDA5W-29-DP - 29dBi dual polarity (H and V)
- HDDA5W-32 - 32dBi single polarity (H or V)
- HDDA5W-32-DP - 32dBi dual polarity (H and V)

Notes:

- All shipments F.O.B. Schaumburg, IL 60173
- All antennas carry a 2 Year Warranty

Any information furnished by Laird Technologies and its agents is believed to be accurate and reliable. Responsibility for the use and application of Laird Technologies materials rests with the end user since Laird Technologies and its agents cannot be aware of all potential uses. Laird Technologies makes no warranties as to the fitness, merchantability, or suitability of any Laird Technologies materials or products for any specific or general uses. Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies products are sold pursuant to the Laird Technologies domestic terms and conditions of sale in effect from time to time, a copy of which will be furnished upon request.

Specifications subject to change without notice.

Typical Antenna Patterns With ETSI Limits

