Laird TECHNOLOGIES

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

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 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 RoHS

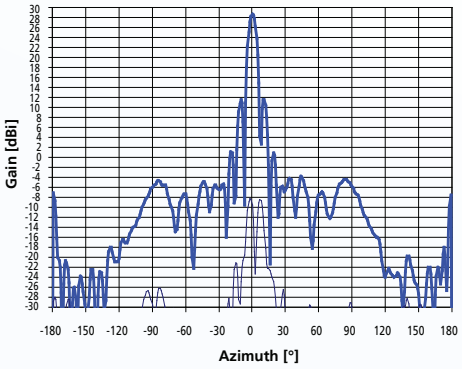
- Wide band operation
- Vertically or horizontally polarized
- Dual polarity models available
- Ultralow sidelobes, meets ETSI standards
- Extremely rugged for long service life in extreme environments

MARKETS

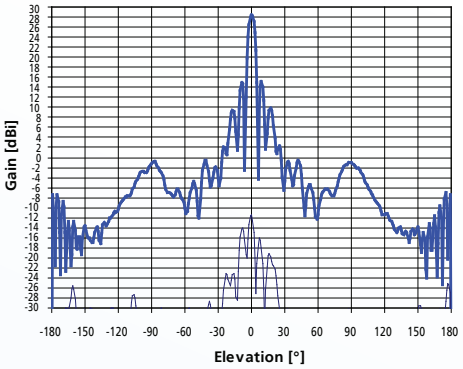
- 802.11 applications
- OFDM systems
- Cellular backhaul
- Point-to-point backhaul
- Public safety communications

TYPICAL ANTENNA PATTERNS

5.7GHz H-Plane



5.7GHz E-Plane



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SPECIFICATIONS

PARAMETER	MIN	TYP	MAX	UNITS
Frequency range (single pol.)	4900		5875	MHz
Frequency range (dual pol.)	4900		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, ETSI EN 300.833 class 1		
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	deg C

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

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

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