



Smart Technology. Delivered.

HD SERIES™ HIGH PERFORMANCE DISH ANTENNA

HDDA5W



4900 TO 5875 MHz HIGH PERFORMANCE DISH ANTENNA

The new HD Series dish antennas offered by Laird give 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
- 802.11 applications
- OFDM systems
- MIMO systems
- Cellular backhaul
- Point-to-point backhaul
- Public safety communications
- WiMAX

PARAMETER	MIN	TYP	MAX	UNITS
Frequency Range (single pol.)	4900		5875	MHz
Frequency Range (dual pol.)	4950		5875	MHz
VSWR (single pol.)		1.5:1		
VSWR (dual pol.)		1.8:1		
Impedance		50		Ohms
Cross-pol Supression		>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)

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SYSTEM ORDERING

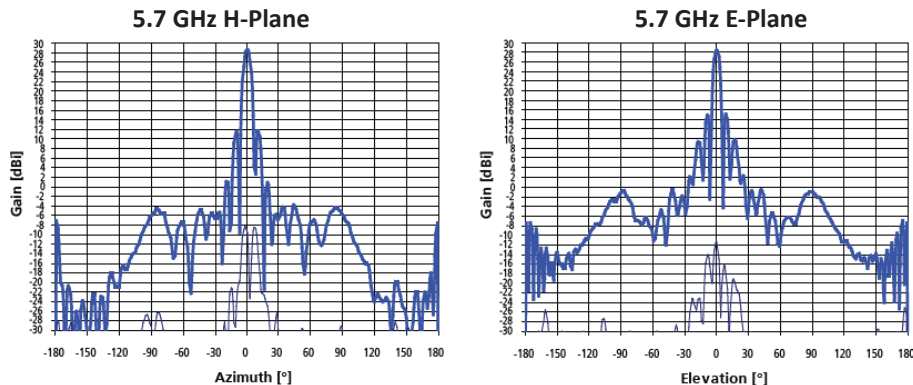
PART NUMBER	DESCRIPTION
HDDA5W-29-SP	29 dBi single polarity with N female connector
HDDA5W-29-DP2	29 dBi dual polarity with N female connectors
HDDA5W-32-SP	32 dBi single polarity with N female connector
HDDA5W-32-DP2	32 dBi dual polarity with N female connectors
HDDA5W-29-DP4	29 dBi dual polarity with N female connectors . ePMP™ mounting bracket included
HDDA5W-29-DP5	29 dBi dual polarity with N female connectors. ePMP™ mounting bracket and RP SMA Male to Type N Male connector jumpers included
HDDA5W-32-DP4	32 dBi dual polarity with N female connectors. ePMP™ mounting bracket included
HDDA5W-32-DP5	32 dBi dual polarity with N female connector. ePMP™ mounting bracket and RP SMA Male to Type N Male connector jumpers included
RADOME OPTIONS	
DA5-29RADOME	Fiberglass Radome Cover for 2ft (0.3m) dish
DA5-32RADOME	Fiberglass Radome Cover for 3ft (0.6m) dish
BRACKET ONLY OPTIONS	
170-00273	Radio bracket mount, HDDA5W No Cables
170-00276	Radio bracket mount, HDDA5W With Cables. RP SMA Male to Type N Male connector jumpers included



WIND LOADING (LBS.)

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

TYPICAL ANTENNA PATTERNS



ANT-DS-ANT-DS-HDDA5W 0317

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