



DA58: 5 GHz OPERATION

The parabolic dish antenna systems offered by Laird Technologies are constructed of an aluminum alloy dish with powder coat paint finish for excellent mechanical, electrical and environmental performance. The parabolic reflector is made with a special one-step molding technology which achieves excellent consistency and long term stability. They come complete with universal galvanized steel, powder coat paint mounting system for pole mount applications. Because of its superb electrical performance and mechanical stability, the parabolic dish antenna can be used in a wide variety of high performance 5GHz wireless applications. An optional fiberglass radome is available for added environmental protection.

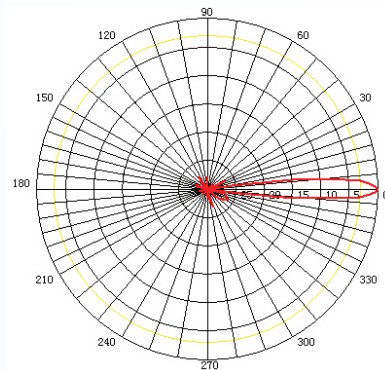
FEATURES

- High gain 28 dBi, 29 dBi antenna (2 frequency ranges available)
- Adjustable tilt pole mount
- Vertical or horizontal polarization
- Type N female connector
- DC grounded for lightning protection
- Rugged, lightweight, and waterproof

MARKETS

- 5.8 GHz ISM band applications
- 5.3GHz UNII band applications
- Point-to-point data links
- 802.11a wireless data
- Long distance backhaul data links
- Building-to-building high speed links

ANTENNA PATTERN



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SPECIFICATIONS

PARAMETER		MIN	TYP	MAX	UNIT
Frequency range	DA58	5725		5850	MHz
	DA57	5470		5725	
	DA53	5150		5350	
Gain	DA58		29		dBi
	DA57		28		
	DA53		28		
Input return loss (S11)			-14		dB
VSWR			1.5:1		
3dB beam angle			6		deg
Cross pole			-32		dB
Front-to-back		25			dB
Side lobe			-28		dB
Impedance			50		ohm
Input power				100	W
Pole diameter (OD)		1.5 (38)		3.0 (76)	inch (mm)
Operating temperature		-40		+70	deg C
Rated wind velocity				125	mph
Focal length			10 (254)		inch (mm)
Weight			11 (5)		lbs (kg)
Dimensions (dia)			25.5 (648)		inch (mm)

SYSTEM ORDERING INFORMATION

DA58-29 29dBi	5.725GHz to 5.850GHz parabolic dish antenna
DA57-28 28dBi	5.470GHz to 5.725GHz parabolic dish antenna
DA53-28 28dBi	5.150GHz to 5.350GHz parabolic dish antenna
DA5 RADOME	Radome kit for parabolic dish antenna

WIND LOADING (LBS.)

MODEL#	100 MPH	125 MPH
PAWDA5	100 MPH	113
	125 MPH	177
	100 MPH w/ ½" radial ice	115
w/ Radome	100 MPH	75
	125 MPH	116
	100 MPH w/ ½" radial ice	78

NOTES

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



ANT-DS-DA5x 0809

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