

Directional Antenna Systems

1710 to 1850 MHz Operation

PMANT / PWPF Data Sheet

Features

- 50 Ω Passive Feed Dipole
- Type N Female Connector
- Horizontal or Vertical Polarity
- 15, 19 or 24 dBi Antenna Gain
- Rugged, Lightweight and Waterproof
- Choice of Quikclamp Bracket or Heavy Duty Bracket



Description

The directional antenna systems offered by Pacific Wireless incorporate parabolic grid type antenna reflectors with the PWPF, 50 ohm passive feed dipole with integrated type N female connector. The antenna reflectors and PWPF dipole can be bought separately for maximum system flexibility. Installation is simple with the Pacific Wireless adjustable tilt “Quikclamp” bracket which is standard on the 15dB and 19dB antennas or our adjustable tilt “Heavy Duty” bracket which is standard on our 24dB antenna. The “Quikclamp” bracket is designed for poles up to 1.5” OD and the “Heavy Duty” bracket accommodates poles up to 2.4” OD. Pacific Wireless also offers the “Heavy Duty” bracket as an option on 15dB and 19dB antennas. All mounts are full galvanized or anodized steel for corrosion protection and each reflector assembly comes complete with corrosion resistant hardware and complete assembly instructions.

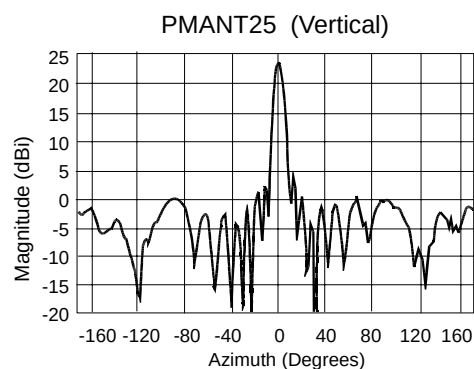
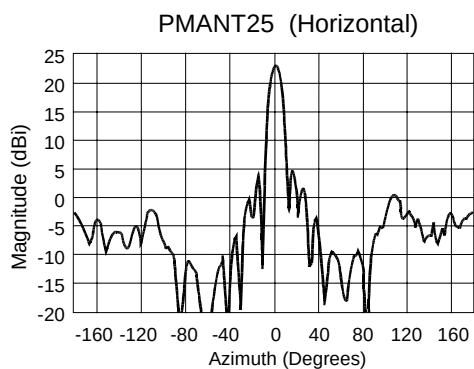
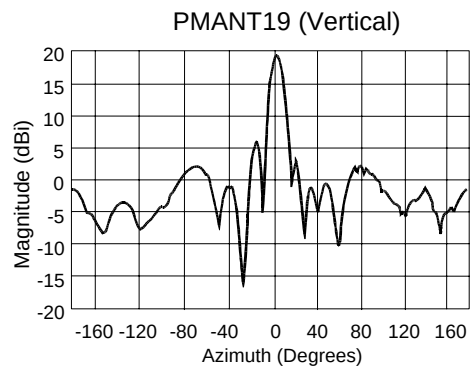
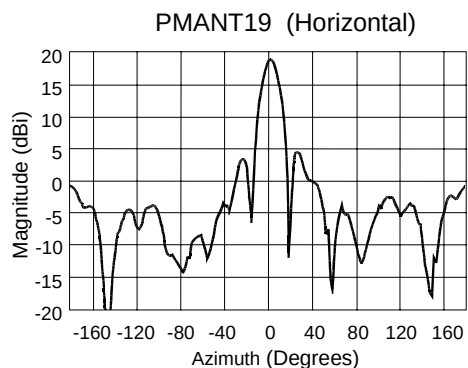
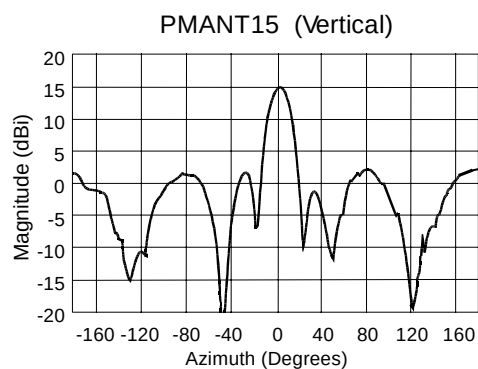
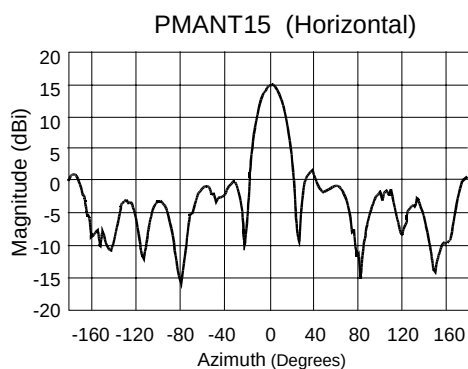
Specifications

Parameter	Model	Min	Typ	Max	Units
Frequency Range	PWPF-18S	1710		1850	MHz
Input Return Loss (S_{11})			-12		dB
VSWR			1.5:1		
Impedance			50		OHM
Input Power			50		W
Pole Diameter (OD)		1 25		2.4 60	inch mm
Operating Temperature		-45		+70	Deg C

*Note: Pacific Wireless does not supply the mounting pole or coax cable. Antenna system assembly is required.

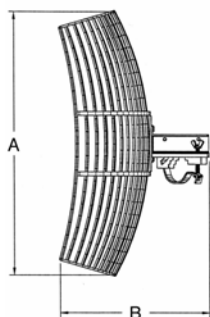
1710 – 1850 MHz	PMANT15	PMANT19	PMANT25
Gain	15 dB	19 dB	24 dB
3dB Beam Angle	19 deg	17 deg	8 deg
Cross Pole	21 dB	32 dB	26 dB
Front to Back	> 19 dB	> 22 dB	> 24 dB
Side Lobe	-15 dB	-17 dB	-20 dB
Wind Loading			
100MPH	8.2 Lbs	16.6 Lbs	40 Lbs
140MPH	16.1 Lbs	32.5 Lbs	78 Lbs
100MPH: ½" Radial Ice	33.2 Lbs	72.4 Lbs	166 Lbs
Weight	2.6 Lbs	3.9 Lbs	8.2 Lbs
Dimension (LxW)	14" x 11.5"	23.6" x 16.7"	34" x 28"
Focal Length	7"	9.5"	16"

Integrated Antenna Patterns

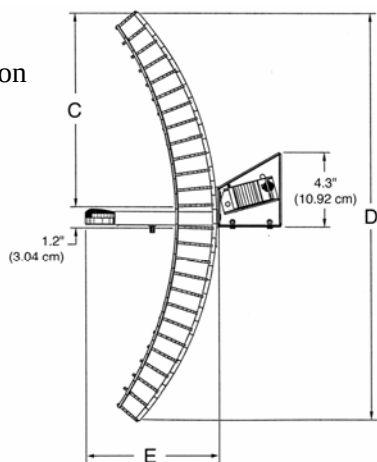


Mechanical Specifications

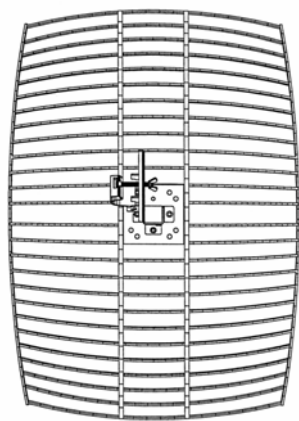
Antenna Reflector: Welded Wire Construction



Top View



Side View



Rear View

	A		B		C		D		E	
	in.	cm.	in.	cm.	in.	cm.	in.	cm.	in.	cm.
PMANT15	11.5	29.21	6.5	16.51	6.4	16.26	14.0	35.56	7.2	18.29
PMANT19	16.7	42.42	9.4	23.88	11.2	28.45	23.6	59.95	9.4	23.87
PMANT25	28.0	71.12	11.4	28.96	16.4	41.66	34.0	86.36	16.0	40.64

Approximate Installed Weight

- including PWPF Dipole

PMANT15	2.6 lbs (1.18 kg)
PMANT19	3.9 lbs (1.77 kg)
PMANT25	8.2 lbs (3.72 kg)

The System . . .

PWPF-xx Passive Feed Dipole:

- Integrated Type N Female Connector
- Waterproof Sealed UV Plastic Housing
- No rear cable connection problems
- Easily installs onto any PMANT-xx

PMANT-xx Antenna Reflector:

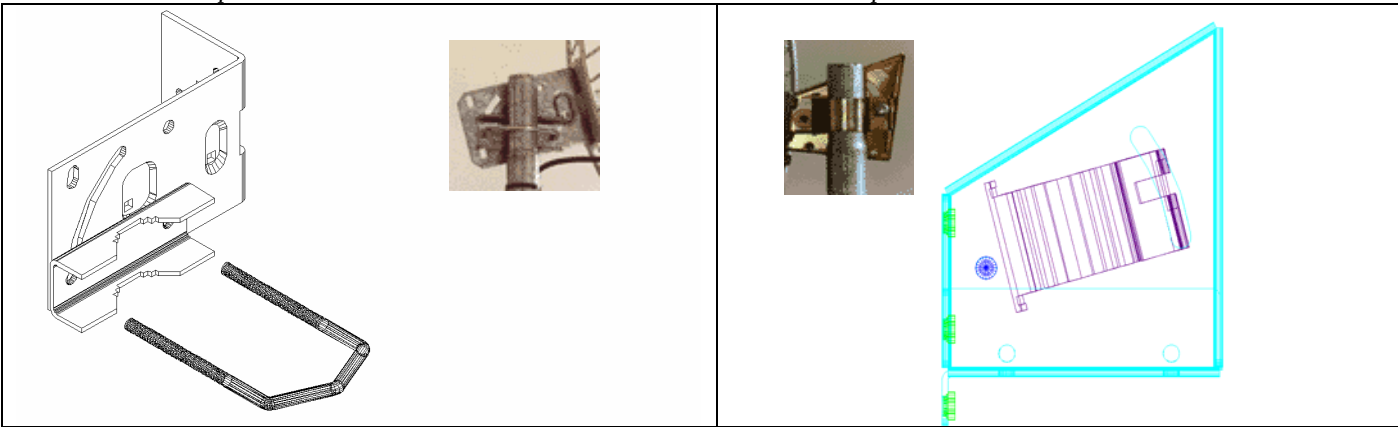
- 15, 19 or 24 dBi Gain
- Rugged, Zinc Plated Welded Wire Construction
- Powder Coat Epoxy Painted Finish (Color: light gray)
- Low Wind Loading

Heavy Duty bracket fits up to 2.4" (60mm) dia. pole

Ships standard with 24dB model

Quikclamp bracket fits up to 1.5" (38mm) dia. pole

Ships standard with 15 and 19dB models



Notes:

- Mounting brackets are disassembled from the antenna reflectors so the reflectors stack compactly, which saves volume in both shipping and warehouse storage.
- A complete antenna system includes one PWPF-xx , one antenna reflector assembly and bracket with all necessary hardware for pole mounting.
- All shipments F.O.B. Pacific Wireless Midwest Warehouse in Albion, Michigan 49224
- All antennas carry a 1 Year Warranty

Standard Packaging:

Model	Units per box	L x W x H	Weight	Dimensional Weight (For Air Freight Calculations)
PMANT15	10 Pack	20" x 16" x 12"	37 Lbs.	37 Lbs.
PMANT19	10 Pack	26" x 23" x 10"	48 Lbs.	48 Lbs.
PMANT25	5 Pack	37" x 35" x 11"	59 Lbs.	74 Lbs.

System Ordering:

PMANT-□□-□□-PF18S

Antenna Gain

15 – 15dBi

19 – 19dBi

25 – 24dBi

Bracket Type

*QC – Quikclamp

HD – Heavy Duty

Feed Type

Blank – No Feed

PF18S – PWPF-18S 1.71 to 1.85 GHz Feed

*Not available on PMANT25

For further information contact:**Pacific Wireless**

2844 Mar Vista Dr. Suite 101
 Aptos, CA 95003
 TEL (831) 684-2474
 FAX (831) 684-2494
www.pacwireless.com