



Pacific Wireless

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

PMANT / PMPF DATA SHEET

Directional Antenna Systems

1700 to 2700 MHz Operation

Features

- 50 W Passive Feed Dipole
- Type N Female Connector
- Horizontal or Vertical Polarity
- 15, 19, 21 or 24 dBi Antenna Gain
- Rugged, Lightweight and Waterproof
- Heavy Duty Adjustable Tilt Bracket

Applications

- 2.4 GHz ISM Band Applications
- Point to Point Repeaters
- Wireless Local Loop
- Point to Multipoint Receive Sites
- DECT Applications
- Wireless Internet Access
- Wireless T1 Data Link
- Streaming Video
- Wireless Bridges
- MMDS Applications



19 dBi Antenna

Description

The directional antenna systems offered by Pacific Wireless incorporate parabolic grid type antenna reflectors with the PMPF, patented 50 ohm passive feed dipole with integrated type N female connector. The antenna reflectors and PMPF dipole can be bought separately for maximum system flexibility. Installation is simple with the Pacific Wireless adjustable tilt "Heavy Duty" bracket which is standard on all antennas. The bracket accommodates poles from 1" up to 2.5" OD. Brackets are full galvanized for extreme corrosion protection and each reflector assembly comes complete with Stainless Steel hardware and complete assembly instructions.

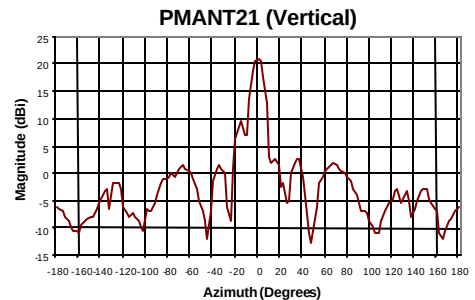
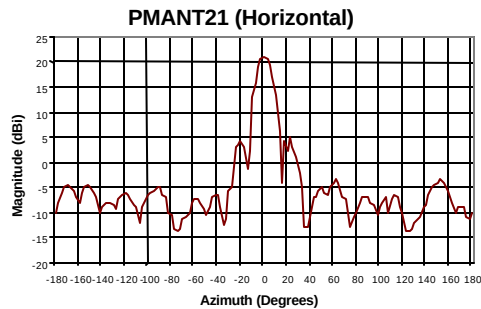
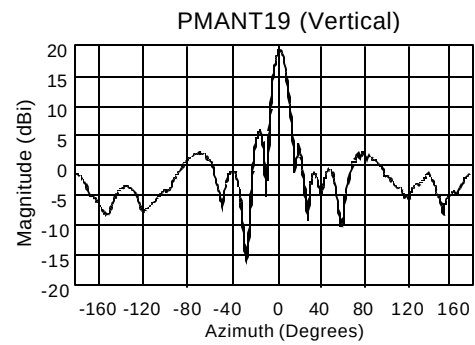
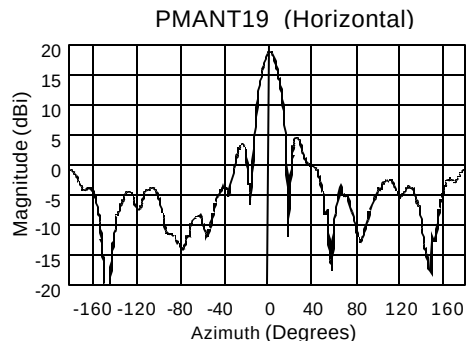
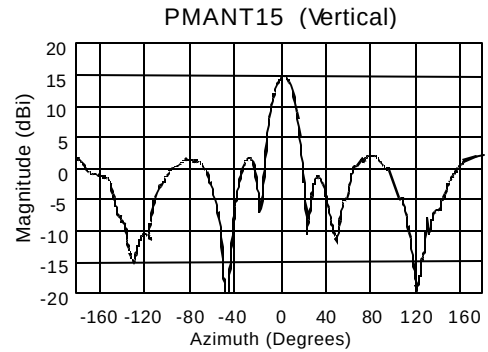
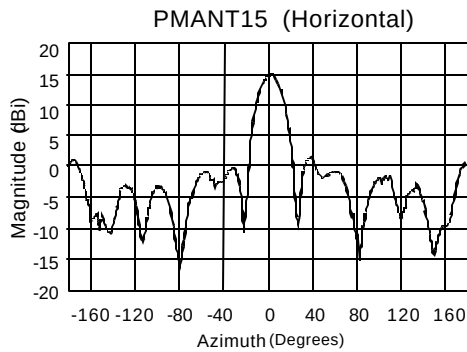
Specifications

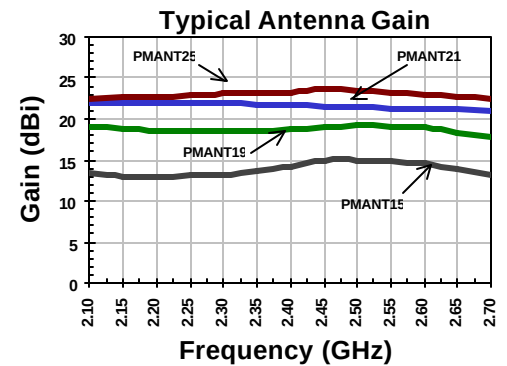
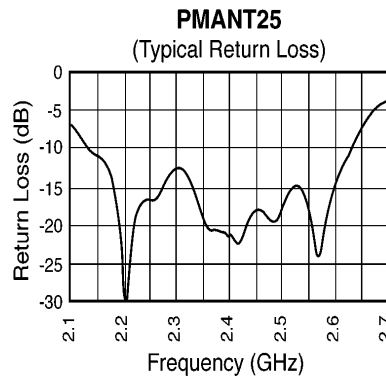
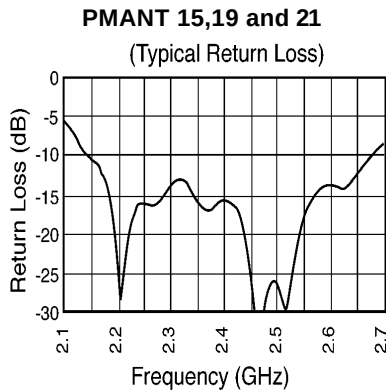
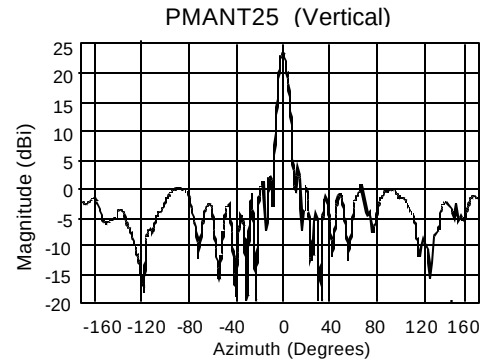
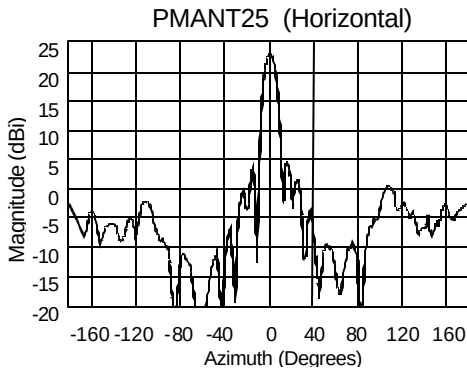
Parameter	Model	Min	Typ	Max	Units
Frequency Range	PMPF-1 PMPF-2 PMPF-19 PMPF-18 PMPF-18S	2300 2100 1880 1750 1700		2500 2700 1930 1850 1850	MHz
Input Return Loss (S_{11})			-12		dB
VSWR			1.5:1		
Impedance			50		OHM
Input Power			50		W
Pole Diameter (OD)		1 25		2.5 60	inch mm
Operating Temperature		-45		+70	Deg C

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

1700 – 2700 MHz	PMANT15	PMANT19	PMANT21	PMANT25
Gain	15 dB	19 dB	21 dB	24dB
3dB Beam Angle	19 deg	17 deg	12 deg	8 deg
Cross Pole	21 dB	32 dB	26dB	26dB
Front to Back	> 19 dB	> 22 dB	>25	> 24 dB
Side Lobe	-15 dB	-17 dB	-25dB	-20dB
Wind Loading				
100MPH	8.2 Lbs	16.6 Lbs	22.7 Lbs	40 Lbs
140MPH	16.1 Lbs	32.5 Lbs	40.6 Lbs	78Lbs
100MPH: ½ Radial Ice	33.2 Lbs	72.4 Lbs	136.8 Lbs	166Lbs
Weight	2.6 Lbs	3.9 Lbs	4.2Lbs	8.2 Lbs
Dimension (LxW)	14" x 11.5"	23.6" x 16.7"	30" x 22"	34" x 28"
Focal Length	7"	9.5"	9.5"	16"

Integrated Antenna Patterns

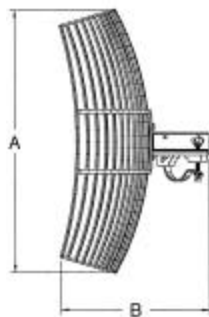




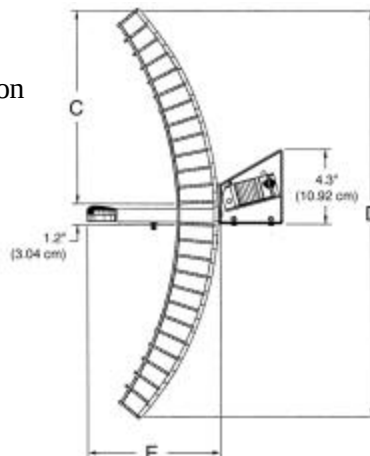
Note: Above are typical return loss and gain using PMPF-1 Dipole

Mechanical Specifications

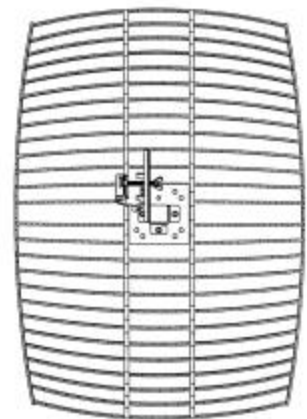
Antenna Reflector: Welded Wire Construction



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
PMANT21	22	55.88	13.5	34.29	9.25	23.5	30.1	76.45	9.35	23.75
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 PMPF Dipole

PMANT15	2.6 lbs (1.18 kg)
PMANT19	3.9 lbs (1.77 kg)
PMANT21	6.0 lbs (2.72 kg)
PMANT25	8.2 lbs (3.72 kg)

Heavy Duty bracket fits up to 2.5" (60mm) dia. Pole*Ships standard with all 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 PMPF-xx, one antenna reflector assembly and bracket with all necessary hardware for pole mounting.
- All shipments F.O.B. Pacific Wireless Midwest Warehouse in Portage, Michigan 49024
- All antennas carry a 2 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"	39 Lbs.	39 Lbs.
PMANT19	5 Pack	26" x 23" x 10"	31 Lbs.	37 Lbs.
PMANT21	5 Pack	32" x 23" x 11"	40 Lbs.	49 Lbs.
PMANT25	5 Pack	38" x 31" x 11"	59 Lbs.	74 Lbs.

System Ordering:

PMANT□□-HD-PF□□

Antenna Gain

15 – 15dBi
 19 – 19dBi
 21 – 21dBi
 25 – 24dBi

Bracket Type

HD – Heavy Duty

Feed Type

Blank – No Feed

PF1 – PMPF-1 2.4 GHz ISM Band Feed**PF2** – PMPF-2 2.5 GHz MMDS Band Feed**PF18** – PMPF-18 1.75 to 1.85 GHz Feed**PF18S** – PMPF-18S 1.70 to 1.85 GHz Feed**PF19** – PMPF-19 1.88 to 1.93 GHz DECT**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