



Pacific Wireless

693 E. Draper Heights Way Suite 210
Draper, UT 84020
TEL (801) 572-3024
FAX (801) 572-3025
www.pacwireless.com

PMANT DATA SHEET

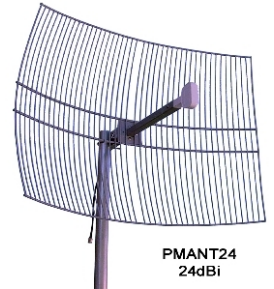
Directional Antenna Systems 1700 to 2700 MHz Operation

Features

- 50 Ω Passive Feed Dipole
- Integrated N Female Connector or
Optional 30” pigtail with N Male or N Female Connector
- Horizontal or Vertical Polarity
- 15, 19, or 24 dBi Antenna Gain
- Rugged, Lightweight and Waterproof
- Heavy Duty Adjustable Tilt Bracket



PMANT19
19dBi



PMANT24
24dBi



PMANT15
15dBi

Applications

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

Description

The directional antenna systems offered by Pacific Wireless incorporate parabolic grid type antenna reflectors with the PMPF, patented 50 ohm passive feed dipole. Dipoles come in 2 basic configurations, PMPF-xx with integral Female N type connector and PMPF-xxP with 30” LMR240 pigtail equipped with an N Male or PMPF-xxPF with an N Female type 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” OD. Brackets are full galvanized for extreme corrosion protection and each reflector assembly comes complete with Stainless Steel hardware and complete assembly instructions.

Specifications

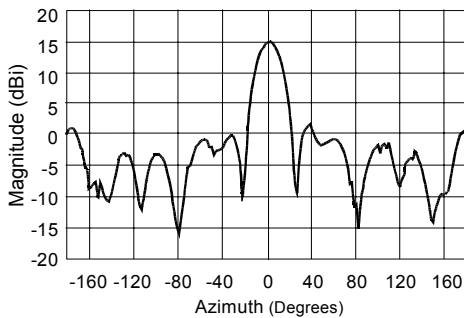
Parameter	Model	Min	Typ	Max	Units
<i>Frequency Range</i>	PMPF-1 PMPF-2 PMPF-19 PMPF-18 PMPF-18S	2400 2100 1880 1750 1700		2485 2686 1930 1850 1850	MHz
<i>Input Return Loss (S₁₁)</i>			-14		dB
<i>VSWR</i>			1.5:1		
<i>Impedance</i>			50		OHM
<i>Input Power</i>			50		W
<i>Pole Diameter (OD)</i>		1 25		2 50	inch mm
<i>Operating Temperature</i>			-45	+70	Deg C

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

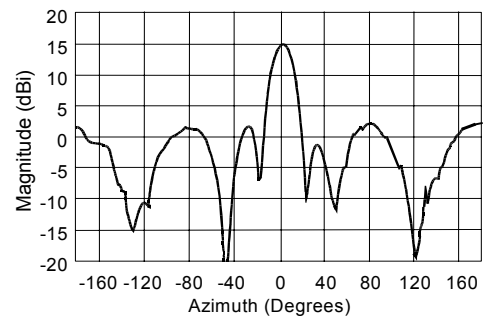
1700 – 2700 MHz	PMANT15	PMANT19	PMANT24
Gain	15 dB	19 dB	24 dB
3dB Beam Angle	19 deg	17 deg	8 deg
Cross Pole	21 dB	32 dB	26 dB
Front to Back	> 19 dB	> 22 dB	> 24 dB
Side Lobe	-15 dB	-17 dB	-20 dB
Wind Loading	100MPH	8.2 Lbs	16.6 Lbs
	140MPH	16.1 Lbs	32.5 Lbs
	100MPH: ½” Radial Ice	33.2 Lbs	72.4 Lbs
Weight	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

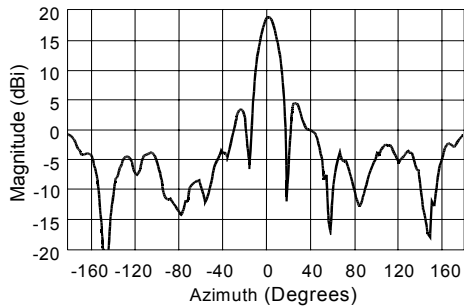
PMANT15 (Horizontal)



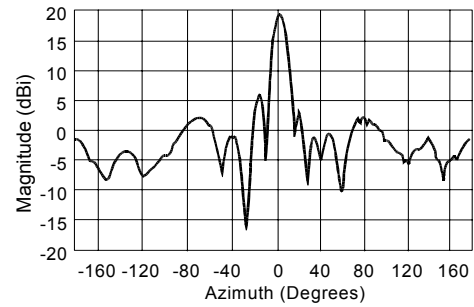
PMANT15 (Vertical)



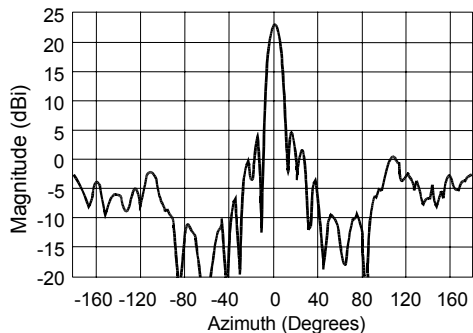
PMANT19 (Horizontal)



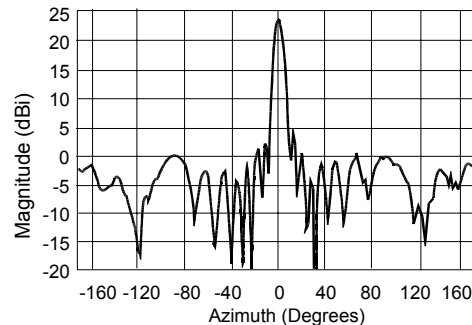
PMANT19 (Vertical)

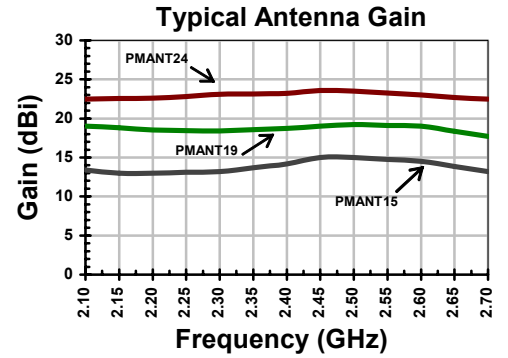
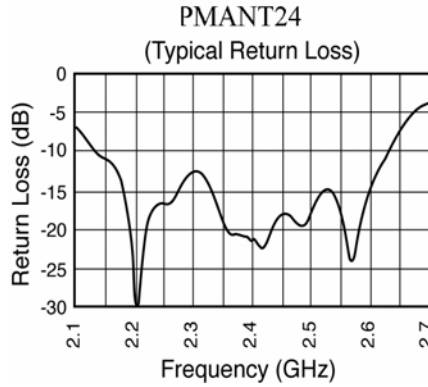
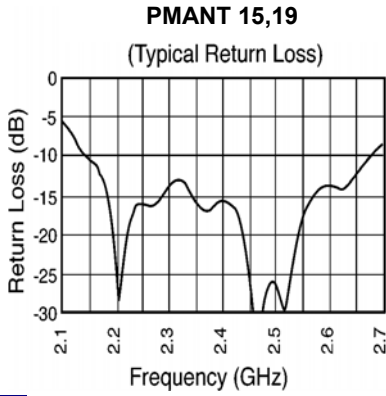


PMANT24 (Horizontal)



PMANT24 (Vertical)

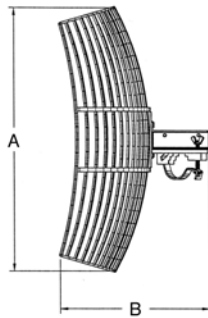




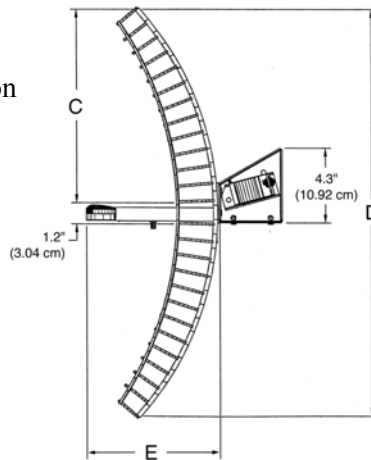
Note: Above are typical return loss and gain using PMPF-1 Dipole

Mechanical Specifications

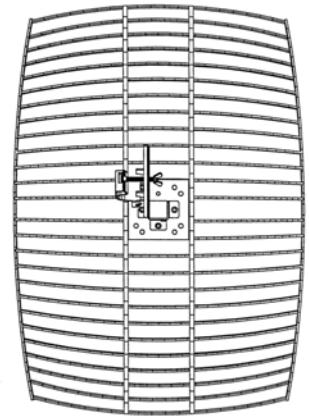
Antenna Reflector: Welded Wire Construction



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	7.0	17.78
PMANT19	16.7	42.42	9.4	23.88	11.2	28.45	23.6	59.95	9.5	24.13
PMANT24	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)
PMANT24	8.2 lbs (3.72 kg)

Heavy Duty bracket fits up to 2" (50)mm 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 Warehouse in Bluffdale, Utah 84065
- 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	17" x 15" x 13"	37 Lbs.	37 Lbs.
PMANT19	5 Pack	24" x 19" x 11"	27 Lbs.	27 Lbs.
PMANT24	5 Pack	35" x 29" x 12"	59 Lbs.	70 Lbs.

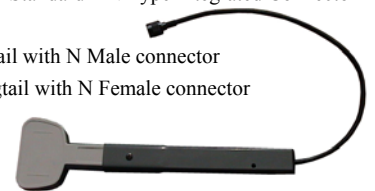
System Ordering: PMANT□□-HD-PF□□□□

Antenna Gain
 15 – 15dBi
 19 – 19dBi
 24 – 24dBi

Bracket Type
 HD – Heavy Duty

Feed Type
 Blank – No Feed
PF1 – PMPF-1 2.4 GHz ISM Band
PF2 – PMPF-2 2.5 GHz MMDS Band
PF18 – PMPF-18 1.75 to 1.85 GHz
PF18S – PMPF-18S 1.70 to 1.85 GHz
PF19 – PMPF-19 1.88 to 1.93 GHz DECT

Feed Option
 Blank – Standard – N Type Integrated Connector
P – Pigtail with N Male connector
PF – Pigtail with N Female connector



For further information contact:



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