

Microwave Antenna

PARABOLIC GRID ANTENNA

The directional antenna systems offered by Hills Industries incorporate parabolic grid type antenna reflectors with the PMPF-1, 50Ohm passive feed dipole with integrated type N female connector. The antenna reflectors and PMPF-1 can be purchased separately for maximum system flexibility.

Adjustable tilt mounting brackets, giving up to 40° adjustment, are supplied with REF15 and REF19 and a Heavy Duty mounting bracket, giving up to 10° tilt is supplied with REF25. These mounting bracket allow for the installation of these units on masts up to 53mm diameter. All mounts are manufactured from Galvabond steel for corrosion resistance and each reflector assembly comes complete with corrosion resistant hardware and complete assembly instructions.

The System PMPF-1-Passive Feed Dipole:

- Integrated type N female connector
- Waterproof sealed plastic housing
- No rear cable connection problems
- Easily installs onto any REFXX

Features:

- 50Ω passive feed dipole
- Optimized for 2.4 to 2.5GHz performance*
- Type N female connector
- 15, 19 or 23.5dBi antenna gain
- Rugged, lightweight and waterproof

Applications:

- 2.4GHz ISM band applications
- Point to point repeaters
- Wireless bridges
- Campus connectors
- In-building data links

REF-XX-Antenna Reflector:

- 15, 19 or 25dBi gain
- Powder coated painted finish (colour: light grey)
- Rugged, wire welded construction
- Heavy duty bracket fits up to 53mm dia. pole

Hills Code:

FB606946A	15dB Grid
FB606954A	19dB Grid
FB606962A	25dB Grid

* Other frequencies available on request



RESONATE WAVE GUIDE SLOT ANTENNA

The antenna for multi-point systems offered by Hills Industries are resonate wave guide slot antenna. The number placement of the slots determine both the gain and coverage of the antenna.

Constructed from rigid aluminium extrusion, these units are powder coated and sealed with PTFE tape providing a lightweight, rigid and waterproof unit. The mounting bracket supplied allow for the installation of these units on masts up to 53mm diameter.

Features:

- 50Ω passive feed
- Optimized for 2.4GHz 15m band
- Type N female connector
- 7 to 16dBi antenna gain
- Rugged, lightweight and waterproof
- 95° coverage (-3dB) single sided
- 360° coverage double sided

Applications:

When used as a Hub in conjunction with Hills PMPF-1 antenna system will provide a Hub for a multi-point distribution system.

- Ideal for -
- Multi-point wireless bridges
 - Multi-point campus connections
 - Multi-point site data links

Coverage:

95°@ -3dB per side.

Hills Code:

FB607157	4 Slot Single Sided
FB607159	4 Slot Double Sided
FB607156	12 Slot Single Sided
FB607158	12 Slot Double Sided

Antenna Gain at 2450MHz dBi		
No. of Slots	Single Sided	Double Sided (Slots x 2)
4	12	9
12	16.5	13.5

