

Wide Band Parabolic Antennas

High Performance Parabolic 4.9 to 6 GHz

The HP High Performance 5W Series by RadioWaves offers dual polarized, 2 ft, 3ft, 4ft, and 6ft parabolic antennas engineered to deliver reliable radio links with a stable gain and enhanced protection from link interference over 4.9 to 6 GHz.

Designed for 5 GHz ISM, U-NII-1, -2, -3, -4 and 4.9 GHz public safety bands, RadioWaves 5W HP Series antennas are engineered to suppress side-lobes and back-lobes to reject interference and improve link budget while providing high gain and optimal cross polarization discrimination and port isolation across the entire band.

RadioWaves field proven preassembled antennas provides a durable platform built for a broad range of environments and its robust pole mounts ensure “set and forget” installation with minimal post installation maintenance.



FEATURES

- Gain from 29-38 dBi with low VSWR, high cross pol. discrimination and port isolation across the entire 4.9 to 6 GHz band
- Reduces interference in noisy environments with up to 52 dBi front-to-back ratio and suppressed side lobes
- One antenna that covers the entire unlicensed 5 GHz ISM UNII-1, -2, -3, -4 and 4.9 GHz public safety bands
- Fully powder coated with rugged hardware built to survive the harshest environments
- Includes RadioWaves rugged mounting kit with fine azimuth and elevation adjustment and 6-point mounting connection
- Designed to withstand wind speeds of 125 mph (201kmh) and up to 175mph (280kmh) with strut kit accessories
- Dual N type Female Connectors for 2x2 MIMO polarization diversity
- Fully Preassembled at the Factory – Simplifies installation on site and guarantees “factory tested” quality

GENERAL SPECIFICATIONS

Model	HPD2-5W	HPD3-5W	HPD4-5W	HPD6-5W
Antenna Type	Parabolic	Parabolic	Parabolic	Parabolic
Size, Nominal	2 ft 0.6 M	3 ft 0.9 M	4 ft 1.2 M	6 ft 1.8 M
Polarization	Dual	Dual	Dual	Dual
Standard RF Connector Type	N-Female	N-Female	N-Female	N-Female

ELECTRICAL SPECIFICATIONS

Operating Frequency Band	4.9 to 6 GHz	4.9 to 6 GHz	4.9 to 6 GHz	4.9 to 6 GHz
Half Power Beamwidth, Horizontal	6.1°	4.2°	3°	2°
Half Power Beamwidth, Vertical	6.1°	4.2°	3°	2°
Cross-Polarization Discrimination, dB	28	30	30	30
Front to Back Ratio, dB	44	46	49	52
Gain, Low Frequency, dBi	28	31.5	33.8	36.8
Gain, Mid Frequency, dBi	28.8	32.3	34.7	34.7
Gain, High Frequency, dBi	29.3	32.8	35.1	38.2
VSWR	1.5:1	1.5:1	1.5:1	1.5:1
Return Loss, dB	-14	-14	-14	-14
Port Isolation, dB	30	30	30	30

MECHANICAL SPECIFICATIONS

Model	HPD2-5W, HPD3-5W, HPD4-5W, HPD6-5W
Fine Azimuth Adjustment	10°
Fine Elevation Adjustment	25°
Mounting Pipe Diameter, Min, Inches	2
Mounting Pipe Diameter, Max, Inches	4.5
Wind Velocity Operational	90 mph
Wind Velocity Survival Rating	125 mph (up to 175 mph with strut kits)
Operating Temperature Range	-40 to +60 C

SHIPPING

Model	HPD2-5W	HPD3-5W	HPD4-5W	HPD6-5W
Package Type	Cardboard	Wood Crate	Wood Crate	Wood Crate
Gross Weight	48 lbs	143 lbs	196 lbs	401 lbs
Dimensions, L x W x H, Inches	31 x 31 x 25	47 x 28 x 48	59 x 35 x 60	77 x 35 x 80
Shipping Volume	13.9 cu ft.	36.6 cu ft.	71.7 cu ft.	124.8 cu ft.

GRAPHICAL DATA

