



HPD4-18

1.2 m | 4 ft High Performance Parabolic Reflector Antenna,
Dual-polarized, 17.7-19.7GHz



General Specifications

Antenna Type	High Performance Parabolic Reflector Antenna
Size, nominal	4 ft 1.2 m
Polarization	Dual
Standard RF Connector Type	WR42
Standard RF Connector Suffix	RS (append suffix to model number)

Electrical Specifications

Operating Frequency Band	17.7 - 19.7 GHz
Half Power Beamwidth, Horizontal	1 degrees
Half Power Beamwidth, Vertical	1 degrees
Cross-Polarization Discrimination	30 dB
Front to Back Ratio (F/B)	72 dB
Gain, Low Frequency	43.9 dBi
Gain, Md Frequency	44.3 dBi

Gain, High Frequency	44.7 dBi
VSWR	1.37:1
Return Loss	-16.1 dB

Mechanical Specifications

Fine Azimuth Adjustment	+/- 10 degrees
Fine Elevation Adjustment	+/- 25 degrees
Mounting Pipe Diameter, Mn	4.5 inch 11.4 cm
Mounting Pipe Diameter, Max	4.5 inch 11.4 cm
Net Weight	85 lbs 38.3 kg
Wind Velocity Operational	90 mph 145 km/h
Wind Velocity Survival Rating	125 mph 201 km/h
Mechanical Configuration	HP4-LoFreq
Axial Force (FA)	737 lbs 3278 N
Side Force (FS)	365 lbs 1623 N
Twisting Moment (MT)	784 ft-lbs 1063 Nm
Operating temperature range	-40 to +60 C
Max pressure, psig, (if waveguide interface)	5

Regulatory Compliance

FCC	Part 101 Cat. A
Industry Canada Compliance	SRSP317.8 A
ETSI	302217 R2 C3
RoHS-compliant	Yes

Shipping Information

Package Type	Wood Crate
Gross Weight	196 lbs 88.9 kg
Dimensions, L x W x H	59 x 35 x 60in 180 x 89 x 152 cm

Additional Comments

Contact Radiowaves Sales for alternate rf interface options. Radiowaves specializes in direct connect solutions for microwave radios.

Technical Drawings

