

# HP4-18

1.2 M | 4 FT HIGH PERFORMANCE PARABOLIC REFLECTOR ANTENNA, SINGLE-POLARIZED, 17.7-19.7GHZ



## SPECIFICATIONS

### General

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

### Electrical

Operating Frequency Band	17.7 - 19.7 GHz	Gain, Low Frequency	44.1 dBi
Half Power Beamwidth, Horizontal	1 degrees	Gain, Mid Frequency	44.5 dBi
Half Power Beamwidth, Vertical	1 degrees	Gain, High Frequency	44.9 dBi
Cross-Polarization Discrimination	30 dB	VSWR	1.37:1
Front to Back Ratio (F/B)	72 dB	Return Loss	-16.1 dB

### Mechanical

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

## 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
Shipping Volume	71.7 cu ft   2.03 cu m

\*Additional OEM interfaces and adapters may be available. Contact RadioWaves for a complete and current list of available adapters.

## TECHNICAL DRAWINGS

