

# HPD2-18

0.6 M | 2 FT HIGH PERFORMANCE PARABOLIC REFLECTOR ANTENNA, DUAL-POLARIZED, 17.7-19.7GHZ



## SPECIFICATIONS

### General

Antenna Type	High Performance Parabolic Reflector Antenna
Size, nominal	2 ft   0.6 m
Polarization	Dual

Standard RF Connector Type	WR42
Standard RF Connector Suffix	RS (append suffix to model number)

### Electrical

Operating Frequency Band	17.7 - 19.7 GHz
Half Power Beamwidth, Horizontal	2 degrees
Half Power Beamwidth, Vertical	2 degrees
Cross-Polarization Discrimination	30 dB
Front to Back Ratio (F/B)	67 dB

Gain, Low Frequency	38 dBi
Gain, Mid Frequency	38.4 dBi
Gain, High Frequency	38.6 dBi
VSWR	1.37:1
Return Loss	-16.1 dB

### Mechanical

Fine Azimuth Adjustment	+/- 10 degrees
Fine Elevation Adjustment	+/- 30 degrees
Mounting Pipe Diameter, Min	2 inch   5.08 cm
Mounting Pipe Diameter, Max	4.5 inch   11.4 cm
Net Weight	27 lbs   12.3 kg
Wind Velocity Operational	90 mph   145 km/h
Wind Velocity Survival Rating	125 mph   201 km/h

Mechanical Configuration	HP2
Axial Force (FA)	202 lbs   899 N
Side Force (FS)	100 lbs   445 N
Twisting Moment (MT)	194 ft-lbs   263 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	Cardboard
Gross Weight	48 lbs   28.7 kg

Dimensions, L x W x H	31 x 31 x 25in   79 x 79 x 64 cm
Shipping Volume	13.9 cu ft   0.39 cu m

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

## TECHNICAL DRAWINGS

