1.8 m | 6 ft High Performance Parabolic Reflector Antenna, Dual-polarized, 17.7-19.7GHz

HPD6-18



The HP High Performance Series by RadioWaves offers a full line of high performance parabolic antennas engineered to provide ETSI class 2/3 radiation pattern performance as well as excellent gain. RadioWaves field-proven pre-assembled antennas and robust pole-mounts ensure “set and forget” installation with minimal post-installation maintenance. The included radome ensures robust and reliable performance under the most challenging conditions. If it’s rugged, it must be RadioWaves!

FEATURES AND BENEFITS

O High Performance ETSI Class 2/3* Parabolic Antennas – Excellent performance for a wide range of applications

O Fully Preassembled at the Factory – Simplifies installation on site and guarantees “factory-tested” quality

*ETSI Class depends on frequency band

SPECIFICATIONS

General

Antenna Type	High Performance Parabolic Reflector Antenna
Size, nominal	6 ft | 1.8 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	0.7 degrees
Half Power Beamwidth, Vertical	0.7 degrees
Cross-Polarization Discrimination	30 dB
Front to Back Ratio (F/B)	74 dB

Gain, Low Frequency	47.3 dBi
Gain, Mid Frequency	47.8 dBi
Gain, High Frequency	48.3 dBi
VSWR	1.37:1
Return Loss	-16.1 dB

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Mechanical

Fine Azimuth Adjustment	+/- 10 degrees
Fine Elevation Adjustment	+/- 10 degrees
Mounting Pipe Diameter, Min	4.5 inch | 11.4 cm
Mounting Pipe Diameter, Max	4.5 inch | 11.4 cm
Net Weight	251 lbs | 113 kg
Wind Velocity Operational	90 mph | 145 km/h
Wind Velocity Survival Rating	125 mph | 201 km/h

Mechanical Configuration	HP6
Axial Force (FA)	1680 lbs | 7473 N
Side Force (FS)	832 lbs | 3700 N
Twisting Moment (MT)	2100 ft-lbs | 2847 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 C2
RoHS-compliant	Yes

Shipping Information

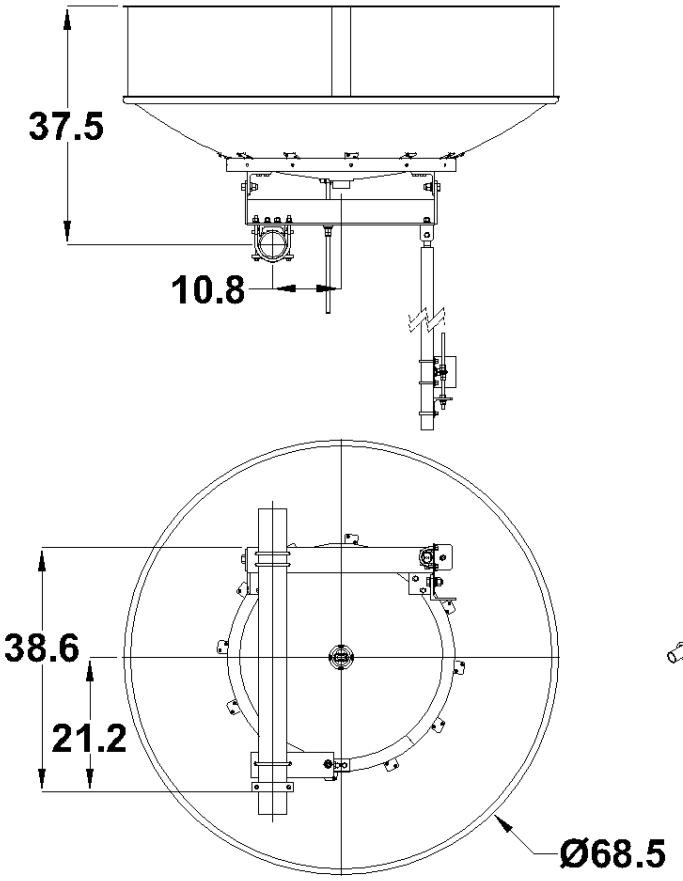
Package Type	Wood Crate
Gross Weight	401 lbs | 181.8 kg

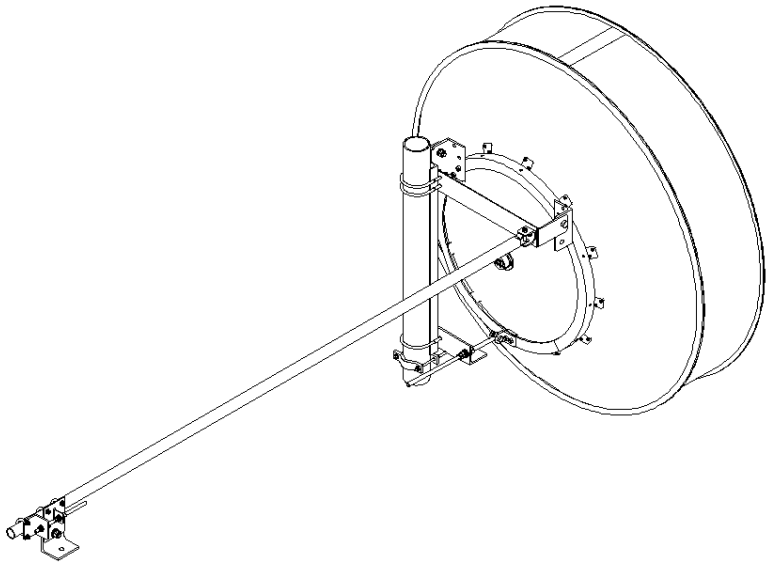
Dimensions, L x W x H	77 x 35 x 80in | 195 x 89 x 203 cm
Shipping Volume	124.77 cu ft | 3.53 cu m

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

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TECHNICAL DRAWINGS





HP6

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