

HP6-18

1.8 M | 6 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	6 ft 1.8 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	47.5 dBi
Half Power Beamwidth, Horizontal	0.7 degrees	Gain, Mid Frequency	48 dBi
Half Power Beamwidth, Vertical	0.7 degrees	Gain, High Frequency	48.5 dBi
Cross-Polarization Discrimination	30 dB	VSWR	1.37:1
Front to Back Ratio (F/B)	74 dB	Return Loss	-16.1 dB

Mechanical

Fine Azimuth Adjustment	+/- 10 degrees	Mechanical Configuration	HP6
Fine Elevation Adjustment	+/- 10 degrees	Axial Force (FA)	1680 lbs 7473 N
Mounting Pipe Diameter, Min	4.5 inch 11.4 cm	Side Force (FS)	832 lbs 3700 N
Mounting Pipe Diameter, Max	4.5 inch 11.4 cm	Twisting Moment (MT)	2100 ft-lbs 2847 Nm
Net Weight	251 lbs 113 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 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.

TECHNICAL DRAWINGS

