

HPLP1-18

0.3 M | 1 FT HIGH PERFORMANCE PARABOLIC REFLECTOR ANTENNA, SINGLE-POLARIZED, 17.7-19.7GHZ

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

- High Performance ETSI Class 2/3* Parabolic Antennas – Excellent performance for a wide range of applications
- Fully Preassembled at the Factory – Simplifies installation on site and guarantees “factory-tested” quality
- Warranty – Industry leading 7-year warranty

*ETSI Class depends on frequency band

SPECIFICATIONS

General

Antenna Type	High Performance Parabolic Reflector Antenna	Standard RF Connector Type	WR42
Size, nominal	1 ft 0.3 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	33.5 dBi
Half Power Beamwidth, Horizontal	3 degrees	Gain, Mid Frequency	34 dBi
Half Power Beamwidth, Vertical	3 degrees	Gain, High Frequency	34.4 dBi
Cross-Polarization Discrimination	30 dB	VSWR	1.37:1
Front to Back Ratio (F/B)	61 dB	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	17 lbs 7.7 kg
Wind Velocity Operational	90 mph 145 km/h
Wind Velocity Survival Rating	125 mph 201 km/h

Mechanical Configuration	HPLP1
Axial Force (FA)	46 lbs 204 N
Side Force (FS)	13 lbs 28 N
Twisting Moment (MT)	27 ft-lbs 36 Nm
Operating Temperature Range	-40 to +60 C
Max Pressure, PSIG, (if waveguide interface)	5

Regulatory Compliance

FCC	Part 101 Cat. B2
Industry Canada Compliance	SRSP317.8 B

ETSI	302217 R2 C3
RoHS-compliant	Yes

Shipping Information

Package Type	Cardboard
Gross Weight	24 lbs 10.8 kg

Dimensions, L x W x H	18 x 18 x 19in 46 x 46 x 48 cm
Shipping Volume	3.56 cu ft 0.1 cu m

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

TECHNICAL DRAWINGS

