0.3 m | 1 ft High Performance Parabolic Reflector Antenna, Dual-polarized, 27.3-31.3GHz

HPLPD1-28



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	1 ft | 0.3 m
Polarization	Dual

Standard RF Connector Type	WR28
Standard RF Connector Suffix	RS (append suffix to model number)

Electrical

Operating Frequency Band	27.3 - 31.3 GHz
Half Power Beamwidth, Horizontal	2.3 degrees
Half Power Beamwidth, Vertical	2.3 degrees
Cross-Polarization Discrimination	30 dB
Front to Back Ratio (F/B)	62 dB

Gain, Low Frequency	35.8 dBi
Gain, Mid Frequency	36.3 dBi
Gain, High Frequency	36.8 dBi
VSWR	1.37:1
Return Loss	-16.1 dB

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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	undeclared
Industry Canada Compliance	undeclared

ETSI	302217 R4 C3
RoHS-compliant	Yes

Shipping Information

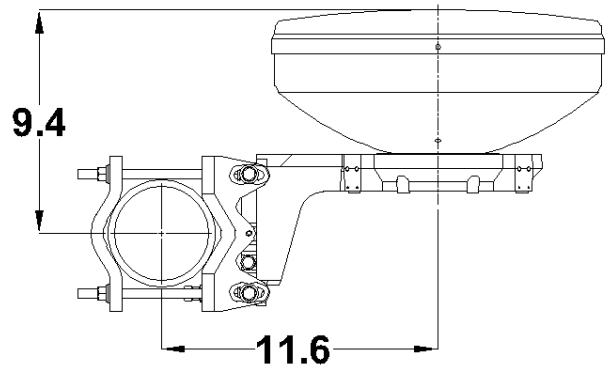
Package Type	Cardboard
Gross Weight	24 lbs | 10.8 kg

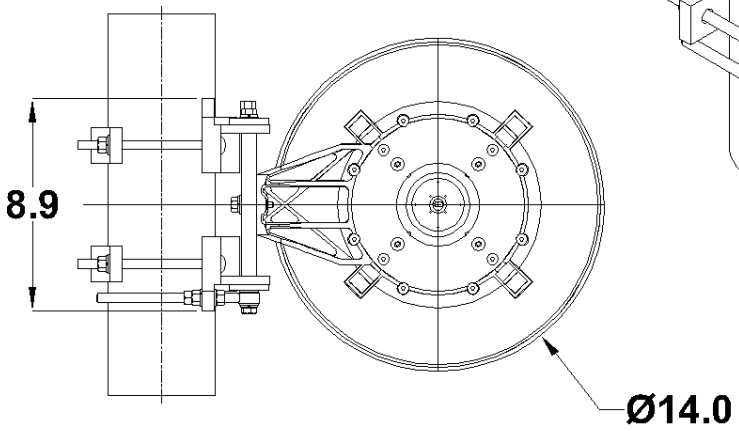
Dimensions, L x W x H	18 x 18 x 19in | 46 x 46 x 48 cm
Shipping Volume	3.56 cu ft | 0.1 cu m

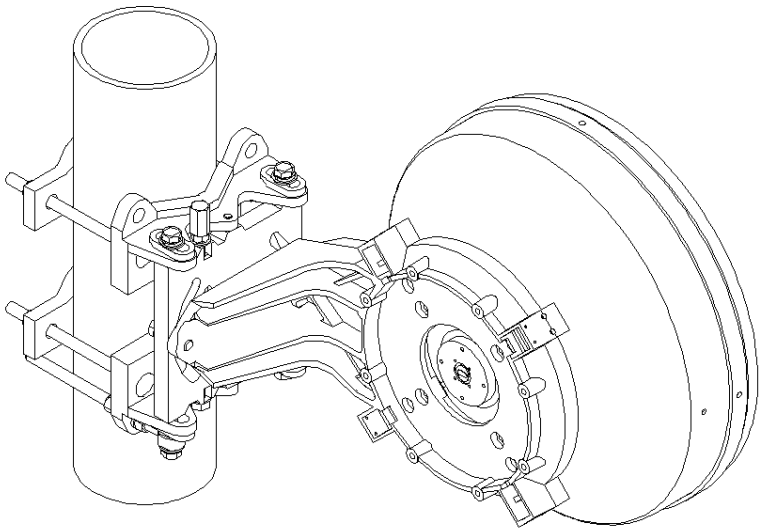
*Additional OEM interfaces and adapters may be available. Contact RadioWaves for a complete and current list of available adapters.

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TECHNICAL DRAWINGS







HPLP1

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