HPD3-5W

0.9 | 3 FT. HIGH PERFORMANCE PARABOLIC REFLECTOR ANTENNA, DUAL POLARIZED, 4.9-6GHZ

The HP High Performance 5W Series by RadioWaves offers a cost effective, dual polarized, 3 ft parabolic antenna engineered to deliver reliable radio links with a stable 32.8 dBi gain and enhanced protection from link interference over 4.9 to 6 GHz.

Designed for U-NII-1, -2, -3, -4 and public safety applications, RadioWaves field-proven pre-assembled HP antennas and robust pole-mounts ensure “set and forget” installation with minimal post-installation maintenance. If it’s rugged, it must be RadioWaves!



FEATURES AND BENEFITS

- Gain of up to 32.8 dBi with low VSWR and high port isolation across the entire 4.9-6 GHz band
- High Performance design offers reduced interference with 46 dB minimum front to back and suppressed side lobes
- One antenna that covers the entire unlicensed 5 GHz U-NII-1, -2, -3, -4 and public safety bands
- Fully powder-coated with rugged hardware built to survive the elements
- Includes low-profile UV-protected radome
- Dual N-type Connectors
- Fully Preassembled at the Factory – Simplifies installation on site and guarantees “factory-tested” quality
- Warranty – Industry leading 7-year warranty

SPECIFICATIONS

General

Antenna Type	High Performance Parabolic Reflector Antenna
Size, nominal	3 ft | 0.9 m
Polarization	Dual

Standard RF Connector Type	N-Female
Standard RF Connector Suffix	NS (append suffix to model number)

Electrical

Operating Frequency Band	4.9 - 6 GHz
Half Power Beamwidth, Horizontal	4.2 degrees
Half Power Beamwidth, Vertical	4.2 degrees
Cross-Polarization Discrimination	30 dB
Front to Back Ratio (F/B)	46 dB

Gain, Low Frequency	31.5 dBi
Gain, Mid Frequency	32.3 dBi
Gain, High Frequency	32.8 dBi
VSWR	1.5:1
Return Loss	-14 dB

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Mechanical

Fine Azimuth Adjustment	+/- 10 degrees
Fine Elevation Adjustment	+/- 25 degrees
Mounting Pipe Diameter, Min	4.5 inch | 11.4 cm
Mounting Pipe Diameter, Max	4.5 inch | 11.4 cm
Net Weight	76 lbs | 34.47 kg
Wind Velocity Operational	90 mph | 145 km/h
Wind Velocity Survival Rating	125 mph | 201 km/h

Mechanical Configuration	HP3-LoFreq
Axial Force (FA)	403 lbs | 1972 N
Side Force (FS)	200 lbs | 890 N
Twisting Moment (MT)	344 ft-lbs | 466 Nm
Operating Temperature Range	-40 to +60C
Max Pressure, PSIG, (if waveguide interface)	5

Regulatory Compliance

Industry Canada Compliance	undeclared
RoHS-compliant	Yes

Shipping Information

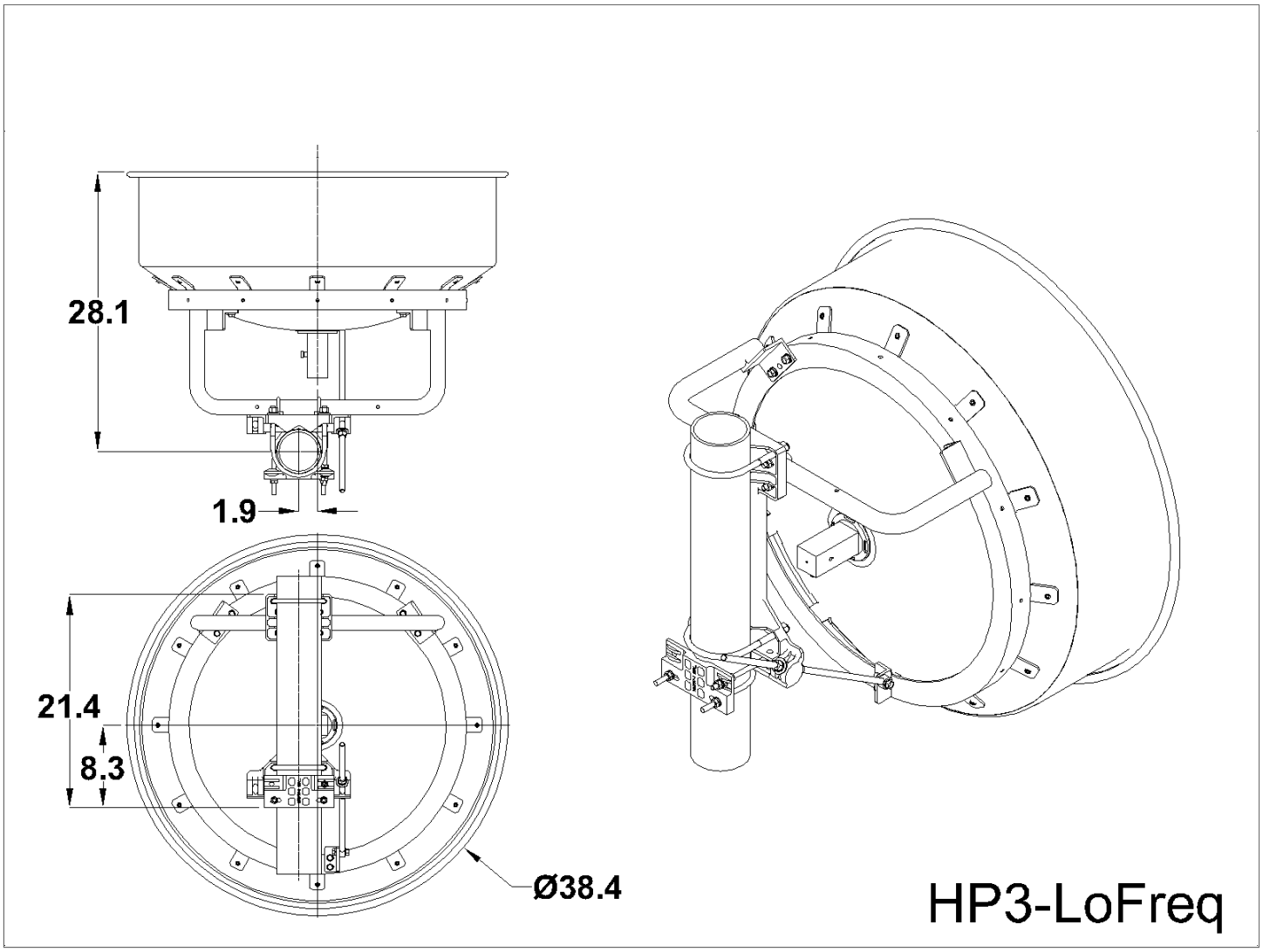
Package Type	Wood Crate
Gross Weight	143 lbs | 69.8 kg

Dimensions, L x W x H	47 x 28 x 48in | 119 x 71 x 122 cm
Shipping Volume	36.6 cu ft | 1.04 cu m

Contact RadioWaves Sales for alternate RF interface options. RadioWaves specializes in direct connect solutions for microwave radios.

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TECHNICAL DRAWINGS



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