HP4-13

1.2 M | 4 FT HIGH PERFORMANCE PARABOLIC REFLECTOR ANTENNA, SINGLE-POLARIZED, 12.7-13.25GHZ

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

*ETSI Class depends on frequency band

SPECIFICATIONS

General

Antenna Type	High Performance Parabolic Reflector Antenna
Size, nominal	4 ft | 1.2 m
Polarization	Single

Standard RF Connector Type	WR75
Standard RF Connector Suffix	RS (append suffix to model number)

Electrical

Operating Frequency Band	12.7 - 13.25 GHz
Half Power Beamwidth, Horizontal	1.4 degrees
Half Power Beamwidth, Vertical	1.4 degrees
Cross-Polarization Discrimination	30 dB
Front to Back Ratio (F/B)	70 dB

Gain, Low Frequency	41.8 dBi
Gain, Mid Frequency	41.9 dBi
Gain, High Frequency	42 dBi
VSWR	1.37:1
Return Loss	-16.1 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	85 lbs | 38.3 kg
Wind Velocity Operational	90 mph | 145 km/h
Wind Velocity Survival Rating	125 mph | 201 km/h

Mechanical Configuration	HP4-LoFreq
Axial Force (FA)	737 lbs | 3278 N
Side Force (FS)	365 lbs | 1623 N
Twisting Moment (MT)	784 ft-lbs | 1063 Nm
Operating Temperature Range	-40 to +60 C
Max Pressure, PSIG, (if waveguide interface)	5

Regulatory Compliance

FCC	Part 101 Cat. B
Industry Canada Compliance	SRSP312.7 A

ETSI	302217 R1 C2
RoHS-compliant	Yes

Shipping Information

Package Type	Wood Crate
Gross Weight	196 lbs | 88.9 kg

Dimensions, L x W x H	59 x 35 x 60in | 180 x 89 x 152 cm
Shipping Volume	71.7 cu ft | 2.03 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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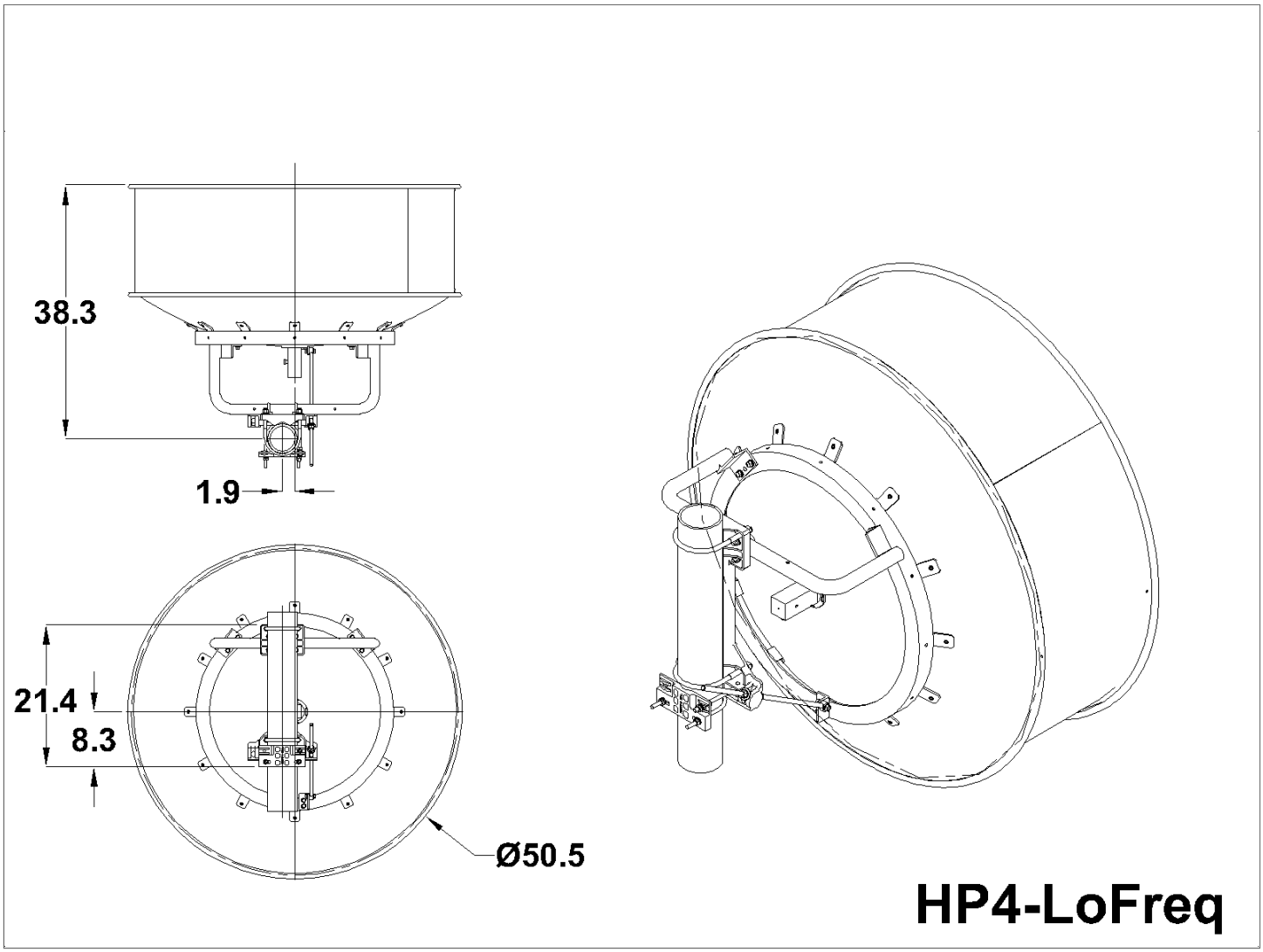
TECHNICAL DRAWINGS



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