

HPD6-4.7

1.8 M | 6 FT HIGH PERFORMANCE PARABOLIC REFLECTOR ANTENNA, DUAL-POLARIZED, 4.4-5GHZ

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 | N-Female |
| Size, nominal | 6 ft 1.8 m | Standard RF Connector Suffix | NS (append suffix to model number) |
| Polarization | Dual | | |

Electrical

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|-----------------------------------|-------------|----------------------|----------|
| Operating Frequency Band | 4.4 - 5 GHz | Gain, Low Frequency | 34.8 dBi |
| Half Power Beamwidth, Horizontal | 2.6 degrees | Gain, Mid Frequency | 35.4 dBi |
| Half Power Beamwidth, Vertical | 2.6 degrees | Gain, High Frequency | 35.9 dBi |
| Cross-Polarization Discrimination | 30 dB | VSWR | 1.5:1 |
| Front to Back Ratio (F/B) | 57 dB | Return Loss | -14 dB |

Mechanical

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|-------------------------------|--------------------|
| 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 | 251 lbs 113 kg |
| Wind Velocity Operational | 90 mph 145 km/h |
| Wind Velocity Survival Rating | 125 mph 201 km/h |

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| Mechanical Configuration | HP6-LoFreq |
| Axial Force (FA) | 1680 lbs 7473 N |
| Side Force (FS) | 832 lbs 3700 N |
| Twisting Moment (MT) | 2100 ft-lbs 2847 Nm |
| Operating Temperature Range | -40 to +60 C |
| Max Pressure, PSIG, (if waveguide interface) | 5 |

Regulatory Compliance

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|----------------------------|------------|
| FCC | undeclared |
| Industry Canada Compliance | undeclared |

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|----------------|------------|
| ETSI | undeclared |
| RoHS-compliant | Yes |

Shipping Information

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|--------------|--------------------|
| Package Type | Wood Crate |
| Gross Weight | 401 lbs 181.8 kg |

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|-----------------------|------------------------------------|
| 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

