

# SHPD6-6.4

## 1.8 M | 6 FT SUPER HIGH PERFORMANCE PARABOLIC REFLECTOR ANTENNA, DUAL-POLARIZED, 6.425-7.125GHZ

The SHP Ultra High Performance Series by RadioWaves offers ultra high performance parabolic antennas engineered to provide ETSI class 3 radiation pattern performance, with exceptional front/back ration as well as excellent gain. SHP Parabolics include high performance radomes. RadioWaves field-proven 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

- High Performance ETSI Class 3 Parabolic Antennas with exceptional front/back ratio – Excellent performance for a wide range of applications
- Simple Assembly – Minimal required assembly simplifies installation on site and guarantees “factory-tested” quality
- Warranty – Industry leading 7-year warranty

### SPECIFICATIONS

#### General

|               |  |
|---------------|--|
| Antenna Type  | Super High Performance Parabolic Reflector Antenna |
| Size, nominal | 6 ft   1.8 m                                       |
| Polarization  | Dual   |

|                              |                                    |
|------------------------------|------------------------------------|
| Standard RF Connector Type   | CPR137G                            |
| Standard RF Connector Suffix | RS (append suffix to model number) |

#### Electrical

|                                   |                   |
|-----------------------------------|-------------------|
| Operating Frequency Band          | 6.425 - 7.125 GHz |
| Half Power Beamwidth, Horizontal  | 1.9 degrees       |
| Half Power Beamwidth, Vertical    | 1.9 degrees       |
| Cross-Polarization Discrimination | 30 dB             |
| Front to Back Ratio (F/B)         | 72 dB             |

|                      |          |
|----------------------|----------|
| Gain, Low Frequency  | 38.7 dBi |
| Gain, Mid Frequency  | 38.9 dBi |
| Gain, High Frequency | 39.2 dBi |
| VSWR                 | 1.30:1   |
| Return Loss          | -17.1 dB |

## Mechanical

|                               |                    |
|-------------------------------|--------------------|
| Fine Azimuth Adjustment       | +/- 10 degrees     |
| Fine Elevation Adjustment     | +/- 10 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 |

|  |                       |
|--|-----------------------|
| Mechanical Configuration                     | SHP6                  |
| 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

|                            |                        |
|----------------------------|------------------------|
| FCC                        | Part 101 Cat. A        |
| Industry Canada Compliance | SRSP306.4 A, SRSP306.7 |

|                |              |
|----------------|--------------|
| ETSI           | 302217 R1 C3 |
| RoHS-compliant | Yes          |

## Shipping Information

|              |                    |
|--------------|--------------------|
| Package Type | Wood Crate         |
| Gross Weight | 403 lbs   182.8 kg |

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

