

## SPD4-5.2

### 1.2 M | 4 FT STANDARD PERFORMANCE PARABOLIC REFLECTOR ANTENNA, DUAL-POLARIZED, 5.25-5.85GHZ

The SP Standard Performance Series by RadioWaves offers a full line of cost effective standard performance parabolic antennas engineered to deliver reliable radio links. Designed for both unlicensed and licensed band applications, RadioWaves field-proven pre-assembled SP 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

- Standard Performance Parabolic Antennas – Excellent performance for a wide range of licensed and unlicensed applications
- Fully Preassembled at the Factory – Simplifies installation on site and guarantees “factory-tested” quality
- Warranty – Industry leading 7-year warranty

### SPECIFICATIONS

#### General

|               |                                                  |
|---------------|--------------------------------------------------|
| Antenna Type  | Standard Performance Parabolic Reflector Antenna |
| Size, nominal | 4 ft   1.2 m                                     |
| Polarization  | Dual                                             |

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

#### Electrical

|                                   |                 |
|-----------------------------------|-----------------|
| Operating Frequency Band          | 5.25 - 5.85 GHz |
| Half Power Beamwidth, Horizontal  | 3.1 degrees     |
| Half Power Beamwidth, Vertical    | 3.1 degrees     |
| Cross-Polarization Discrimination | 30 dB           |
| Front to Back Ratio (F/B)         | 44 dB           |

|                      |          |
|----------------------|----------|
| Gain, Low Frequency  | 34.4 dBi |
| Gain, Mid Frequency  | 34.9 dBi |
| Gain, High Frequency | 35.4 dBi |
| VSWR                 | 1.5:1    |
| Return Loss          | -14 dB   |

## 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                    | 60 lbs   27 kg     | 80 lbs   36 Kg with RD radome |
| Wind Velocity Operational     | 90 mph   145 km/h  |                               |
| Wind Velocity Survival Rating | 125 mph   201 km/h |                               |

|                                              |                       |                                  |
|----------------------------------------------|-----------------------|----------------------------------|
| Mechanical Configuration                     | SP4                   |                                  |
| Axial Force (FA)                             | 855 lbs   3803 N      | 469 lbs   2087 Nm with RD radome |
| Side Force (FS)                              | 45 lbs   200 N        | 93 lbs   414 Nm with RD radome   |
| Twisting Moment (MT)                         | 1120 ft-lbs   1518 Nm | 784 lbs   1063 Nm with RD radome |
| Operating Temperature Range                  | -40 to +60 C          |                                  |
| Max Pressure, PSIG, (if waveguide interface) | 5                     |                                  |

## Regulatory Compliance

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

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

## Shipping Information

|              |                    |
|--------------|--------------------|
| Package Type | Wood Crate         |
| Gross Weight | 126 lbs   57.15 kg |

|                       |                                    |
|-----------------------|------------------------------------|
| Dimensions, L x W x H | 59 x 19 x 60in   150 x 48 x 152 cm |
| Shipping Volume       | 38.92 cu ft   1.1 cu m             |

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

TECHNICAL DRAWINGS

