

# SP8-1011

## 2.4 M | 8 FT STANDARD PERFORMANCE PARABOLIC REFLECTOR ANTENNA, SINGLE-POLARIZED, 10.15-11.7GHZ

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 | 8 ft   2.4 m                                     |
| Polarization  | Single                                           |

|                              |                                    |
|------------------------------|------------------------------------|
| Standard RF Connector Type   | CPR90G                             |
| Standard RF Connector Suffix | RS (append suffix to model number) |

#### Electrical

|                                   |                  |
|-----------------------------------|------------------|
| Operating Frequency Band          | 10.15 - 11.7 GHz |
| Half Power Beamwidth, Horizontal  | 0.8 degrees      |
| Half Power Beamwidth, Vertical    | 0.8 degrees      |
| Cross-Polarization Discrimination | 30 dB            |
| Front to Back Ratio (F/B)         | 52 dB            |

|                      |          |
|----------------------|----------|
| Gain, Low Frequency  | 45.8 dBi |
| Gain, Mid Frequency  | 46.3 dBi |
| Gain, High Frequency | 46.3 dBi |
| VSWR                 | 1.37:1   |
| Return Loss          | -16.1 dB |

## Mechanical

|                               |                    |                                   |
|-------------------------------|--------------------|-----------------------------------|
| Fine Azimuth Adjustment       | +/- 5 degrees      |                                   |
| Fine Elevation Adjustment     | +/- 5 degrees      |                                   |
| Mounting Pipe Diameter, Min   | 4.5 inch   11.4 cm |                                   |
| Mounting Pipe Diameter, Max   | 4.5 inch   11.4 cm |                                   |
| Net Weight                    | 165 lbs   74.3 kg  | 250 lbs   113.4 Kg with RD radome |
| Wind Velocity Operational     | 90 mph   145 km/h  |                                   |
| Wind Velocity Survival Rating | 125 mph   201 km/h |                                   |

|                                              |                       |                                    |
|----------------------------------------------|-----------------------|------------------------------------|
| Mechanical Configuration                     | SP8                   |                                    |
| Axial Force (FA)                             | 3795 lbs   16940 N    | 2773 lbs   12334 Nm with RD radome |
| Side Force (FS)                              | 1115 lbs   4980 N     | 1422 lbs   6325 Nm with RD radome  |
| Twisting Moment (MT)                         | 4800 ft-lbs   6508 Nm | 4400 lbs   5966 Nm with RD radome  |
| Operating Temperature Range                  | -40 to +60 C          |                                    |
| Max Pressure, PSIG, (if waveguide interface) | 5                     |                                    |

## Regulatory Compliance

|                            |                       |
|----------------------------|-----------------------|
| FCC                        | Part 101 Cat. B       |
| Industry Canada Compliance | SRSP310.5, SRSP310.7B |

|                |              |
|----------------|--------------|
| ETSI           | 302217 R1 C1 |
| RoHS-compliant | Yes          |

## Shipping Information

|              |                    |
|--------------|--------------------|
| Package Type | Wood Crate         |
| Gross Weight | 878 lbs   398.2 kg |

|                       |                                      |
|-----------------------|--------------------------------------|
| Dimensions, L x W x H | 102 x 60 x 91in   259 x 152 x 231 cm |
| Shipping Volume       | 322.29 cu ft   9.13 cu m             |

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

# TECHNICAL DRAWINGS

