

## SP8-3.5

### 2.4 M | 8 FT STANDARD PERFORMANCE PARABOLIC REFLECTOR ANTENNA, SINGLE-POLARIZED, 3.3-3.6GHZ

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

#### Electrical

Operating Frequency Band	3.3 - 3.6 GHz
Half Power Beamwidth, Horizontal	2.5 degrees
Half Power Beamwidth, Vertical	2.5 degrees
Cross-Polarization Discrimination	30 dB
Front to Back Ratio (F/B)	43 dB

Gain, Low Frequency	35.9 dBi
Gain, Mid Frequency	36.3 dBi
Gain, High Frequency	36.7 dBi
VSWR	1.5:1
Return Loss	-14 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)	na	

## Regulatory Compliance

FCC	undeclared
Industry Canada Compliance	undeclared

ETSI	undeclared
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

