

# SPD2-5W

## 0.6M | 2 FT. STANDARD PERFORMANCE PARABOLIC REFLECTOR ANTENNA, DUAL-POLARIZED, 4.9-6GHZ

The SP Standard Performance 5W Series by RadioWaves offers a cost effective, dual polarized, 2ft parabolic antenna engineered to deliver reliable radio links with a stable 29.8 dBi gain from 4.9 to 6 GHz.

Designed for U-NII-1, -2, -3, -4 and public safety 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

- Gain of up to 29.8 dBi with low VSWR and high port isolation across the entire 4.9-6 GHz band
- One antenna that covers the entire unlicensed 5 GHz U-NII-1, -2, -3, -4 and public safety bands
- Fully powder-coated with rugged hardware built to survive the elements
- Optional conical radome to reduce wind loading
- Dual N-type Connectors
- Reduced interference with 38 dB minimum front to back and suppressed side lobes
- 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	2 ft   0.6 m
Polarization	Dual

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

#### Electrical

Operating Frequency Band	4.9 - 6 GHz
Half Power Beamwidth, Horizontal	6.2 degrees
Half Power Beamwidth, Vertical	6.2 degrees
Cross-Polarization Discrimination	30 dB
Front to Back Ratio (F/B)	38 dB

Gain, Low Frequency	28.1 dBi
Gain, Mid Frequency	29 dBi
Gain, High Frequency	29.8 dBi
VSWR	1.5:1
Return Loss	-14 dB

## Mechanical

Fine Azimuth Adjustment	+/- 10 degrees	
Fine Elevation Adjustment	+/- 30 degrees	
Mounting Pipe Diameter, Min	2 inch   5.08 cm	
Mounting Pipe Diameter, Max	4.5 inch   11.4 cm	
Net Weight	22 lbs   9.9 kg	26 lbs   11.7 Kg with RD radome
Wind Velocity Operational	90 mph   145 km/h	
Wind Velocity Survival Rating	125 mph   201 km/h	

Mechanical Configuration	SP2	
Axial Force (FA)	222 lbs   988 N	122 lbs   543 Nm with RD radome
Side Force (FS)	14 lbs   62 N	24 lbs   107 Nm with RD radome
Twisting Moment (MT)	225 ft-lbs   305 Nm	194 lbs   263 Nm with RD radome
Operating Temperature Range	-40 to +60C	
Max Pressure, PSIG, (if waveguide interface)	5	

## Regulatory Compliance

Industry Canada Compliance	undeclared
RoHS-compliant	Yes

## Shipping Information

Package Type	Cardboard
Gross Weight	25 lbs   11.3 kg

Dimensions, L x W x H	28 x 8 x 28in   71 x 20 x 71 cm
Shipping Volume	3.6 cu ft   0.1 cu m

TECHNICAL DRAWINGS

