

THE LEADER IN MICROWAVE ANTENNA INNOVATION

0.6M | 2 ft. Standard Performance Parabolic Reflector Antenna, Dual-polarized, 4.9-6GHz

SPD2-5W



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 polemounts ensure "set and forget" installation with minimal post-installation maintenance. If it's rugged, it must be RadioWaves!

SP Wide Band Family Datasheet

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

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)



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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

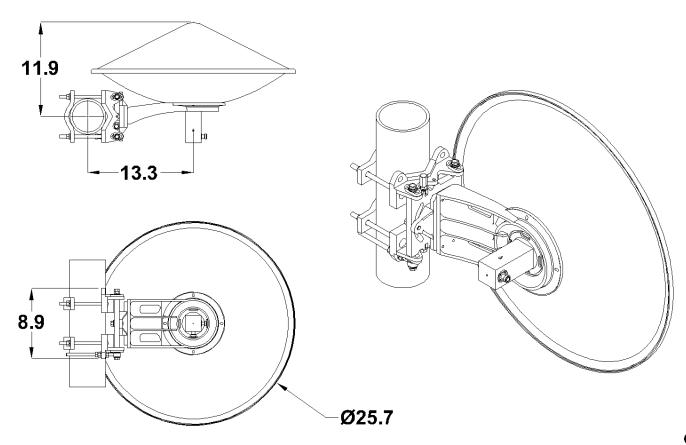
Shipping Information

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



SP2