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

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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

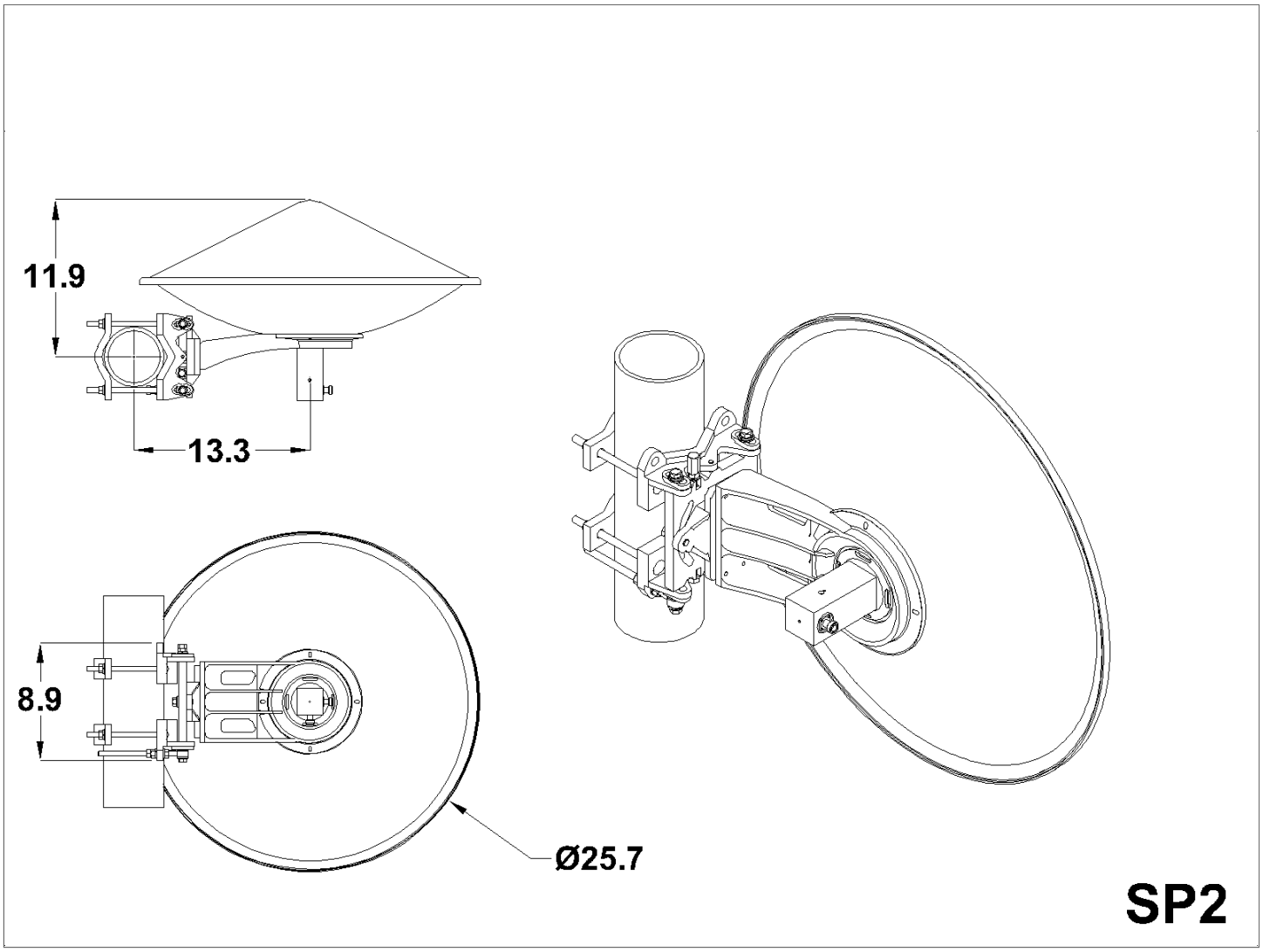
Shipping Information

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

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TECHNICAL DRAWINGS



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