1.8 m | 6 ft Standard Performance Parabolic Reflector Antenna, Single-polarized, 6.425-7.125GHz



SP6-6.4

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
O Standard Performance Parabolic Antennas – Excellent performance for a wide range of licensed and unlicensed applications
O 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	6 ft | 1.8 m
Polarization	Single

Standard RF Connector Type	CPR137G
Standard RF Connector Suffix	RS (append suffix to model number)

Electrical

Operating Frequency Band	6.425 - 7.125 GHz
Half Power Beamwidth, Horizontal	1.8 degrees
Half Power Beamwidth, Vertical	1.8 degrees
Cross-Polarization Discrimination	30 dB
Front to Back Ratio (F/B)	47 dB

Gain, Low Frequency	39 dBi
Gain, Mid Frequency	39.2 dBi
Gain, High Frequency	39.5 dBi
VSWR	1.37:1
Return Loss	-16.1 dB

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Mechanical

Fine Azimuth Adjustment	+/- 10 degrees	
Fine Elevation Adjustment	+/- 25 degrees	
Mounting Pipe Diameter, Min	4.5 inch | 11.4 cm	
Mounting Pipe Diameter, Max	4.5 inch | 11.4 cm	
Net Weight	95 lbs | 42.8 kg	125 lbs | 56.3 Kg with RD radome
Wind Velocity Operational	90 mph | 145 km/h	
Wind Velocity Survival Rating	125 mph | 201 km/h	

Mechanical Configuration	SP6	
Axial Force (FA)	1768 lbs | 7865 N	973 lbs | 4329 Nm with RD radome
Side Force (FS)	98 lbs | 436 N	162 lbs | 721 Nm with RD radome
Twisting Moment (MT)	2270 ft-lbs | 3077 Nm	2100 lbs | 2847 Nm with RD radome
Operating Temperature Range	-40 to +60 C	
Max Pressure, PSIG, (if waveguide interface)	5	

Regulatory Compliance

FCC	Part 101 Cat. B1
Industry Canada Compliance	SRSP306.4B, SRSP306.5

ETSI	302217 R1 C2
RoHS-compliant	Yes

Shipping Information

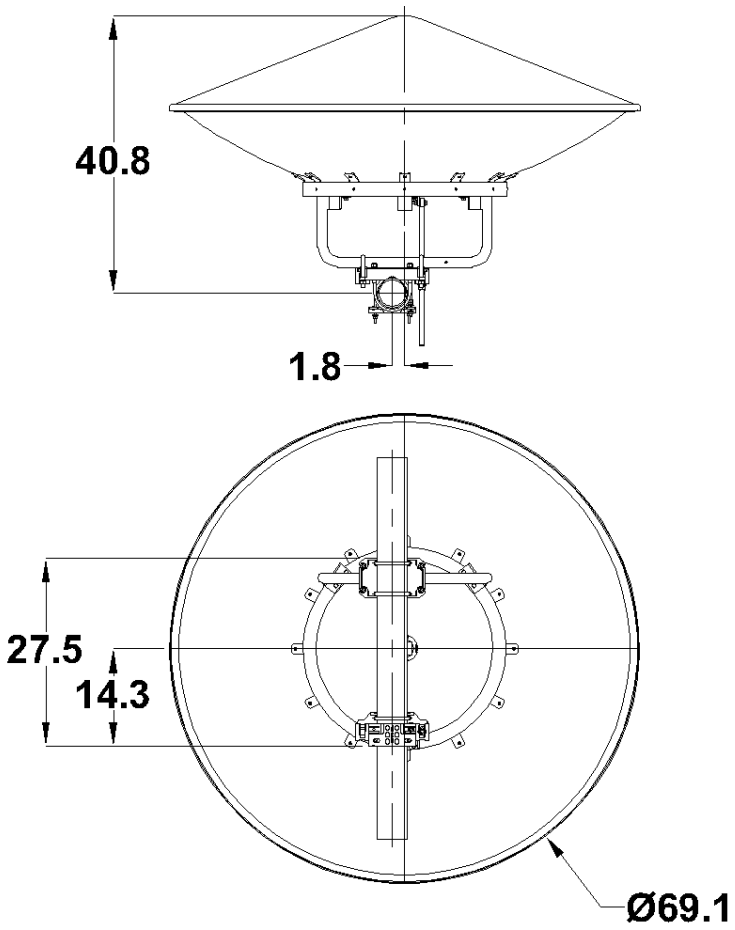
Package Type	Wood Crate
Gross Weight	222 lbs | 100.7 kg

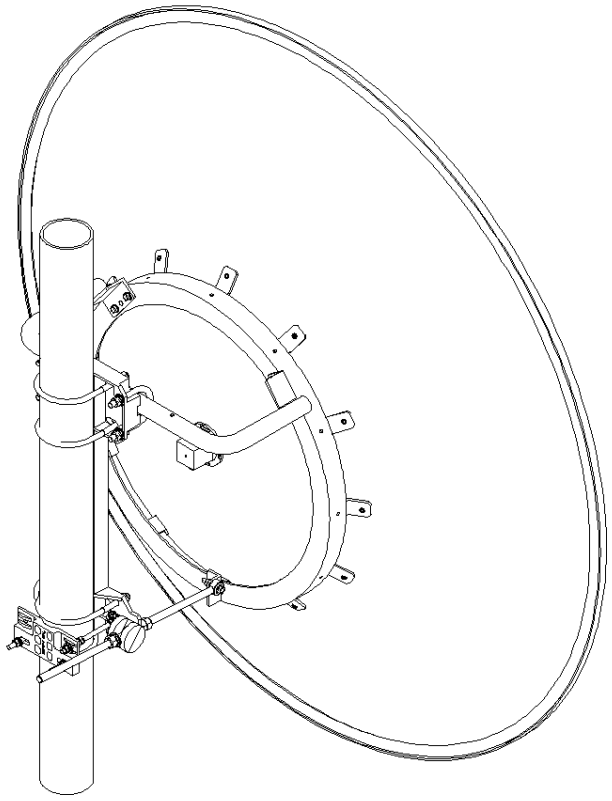
Dimensions, L x W x H	77 x 20 x 80in | 195 x 501 x 203 cm
Shipping Volume	71.3 cu ft | 2.02 cu m

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

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TECHNICAL DRAWINGS





SP-6

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