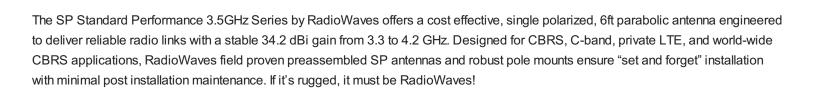


# 1.8 m | 6 ft Standard Performance Parabolic Reflector Antenna, Single-polarized, 3.3-4.2GHz

## SP6-3.5



#### FEATURES AND BENEFITS

- Gain of up to 34.2 dBi with low VSWR and high port isolation across the entire 3.3-4.2 GHz band
- One 1x1 SISO antenna that covers CBRS, C-band, and world-wide 5G applications
- · Fully powder-coated with rugged hardware built to survive the elements
- Optional Accessories:
  - · Conical radome to reduce wind loading
  - Side-strut kits to improve wind survival and operability
- Rugged N-type Connector for horizontal or vertical polarization
- · Reduced interference with 38 dB minimum front to back and suppressed side lobes
- Fully Preassembled at the Factory Simplifies installation 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	N-Female
Standard RF Connector Suffix	NS (append suffix to model number)



#### Electrical

Operating Frequency Band	3.3 - 4.2 GHz
Half Power Beamwidth, Horizontal	3.3 degrees
Half Power Beamwidth, Vertical	3.3 degrees
Cross-Polarization Discrimination	30 dB
Front to Back Ratio (F/B)	40 dB

#### 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	

Gain, Low Frequency	33.4 dBi
Gain, Mid Frequency	34 dBi
Gain, High Frequency	34.2 dBi
VSWR	1.5:1
Return Loss	-14 dB

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)	na	

# **Regulatory Compliance**

FCC	undeclared
Industry Canada Compliance	undeclared

## **Shipping Information**

Package Type	Wood Crate
Gross Weight	222 lbs   100.7 kg

ETSI	undeclared
RoHS-compliant	Yes

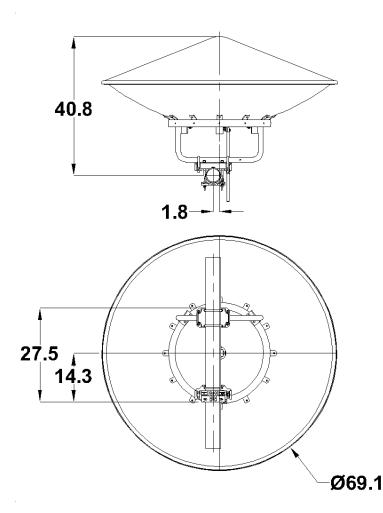
Dimensions, L x W x H	77 x 20 x 80in   195 x 501 x 203 cm
Shipping Volume	71.3 cu ft   2.02 cu m

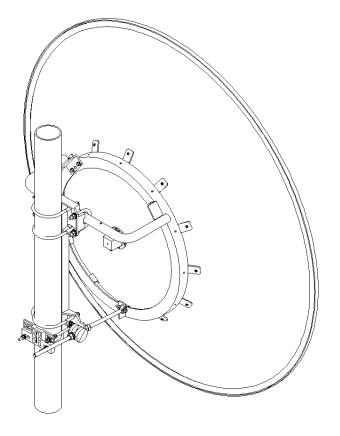
\*Additional OEM interfaces and adapters may be available. Contact RadioWaves for a complete and current list of available adapters.



# THE LEADER IN MICROWAVE ANTENNA INNOVATION

# **TECHNICAL DRAWINGS**





SP-6

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