

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

SHP6-6.4



The SHP Ultra High Performance Series by RadioWaves offers ultra high performance parabolic antennas engineered to provide ETSI class 3 radiation pattern performance, with exceptional front/back ratio as well as excellent gain. SHP Parabolics include high performance radomes. RadioWaves field-proven 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

- High Performance ETSI Class 3 Parabolic Antennas with exceptional front/back ratio – Excellent performance for a wide range of applications
- Simple Assembly – Minimal required assembly simplifies installation on site and guarantees “factory-tested” quality

SPECIFICATIONS

General

Antenna Type	Super High 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	1.9 degrees
Half Power Beamwidth, Vertical	1.9 degrees
Cross-Polarization Discrimination	30 dB
Front to Back Ratio (F/B)	72 dB

Gain, Low Frequency	38.9 dBi
Gain, Mid Frequency	39.1 dBi
Gain, High Frequency	39.4 dBi
VSWR	1.30:1
Return Loss	-17.1 dB

Mechanical

Fine Azimuth Adjustment	+/- 10 degrees
Fine Elevation Adjustment	+/- 10 degrees
Mounting Pipe Diameter, Min	4.5 inch 11.4 cm
Mounting Pipe Diameter, Max	4.5 inch 11.4 cm
Net Weight	251 lbs 113 kg
Wind Velocity Operational	90 mph 145 km/h
Wind Velocity Survival Rating	125 mph 201 km/h

Mechanical Configuration	SHP6
Axial Force (FA)	1680 lbs 7473 N
Side Force (FS)	832 lbs 3700 N
Twisting Moment (MT)	2100 ft-lbs 2847 Nm
Operating Temperature Range	-40 to +60 C
Max Pressure, PSIG, (if waveguide interface)	5

Regulatory Compliance

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

ETSI	302217 R1 C3
RoHS-compliant	Yes

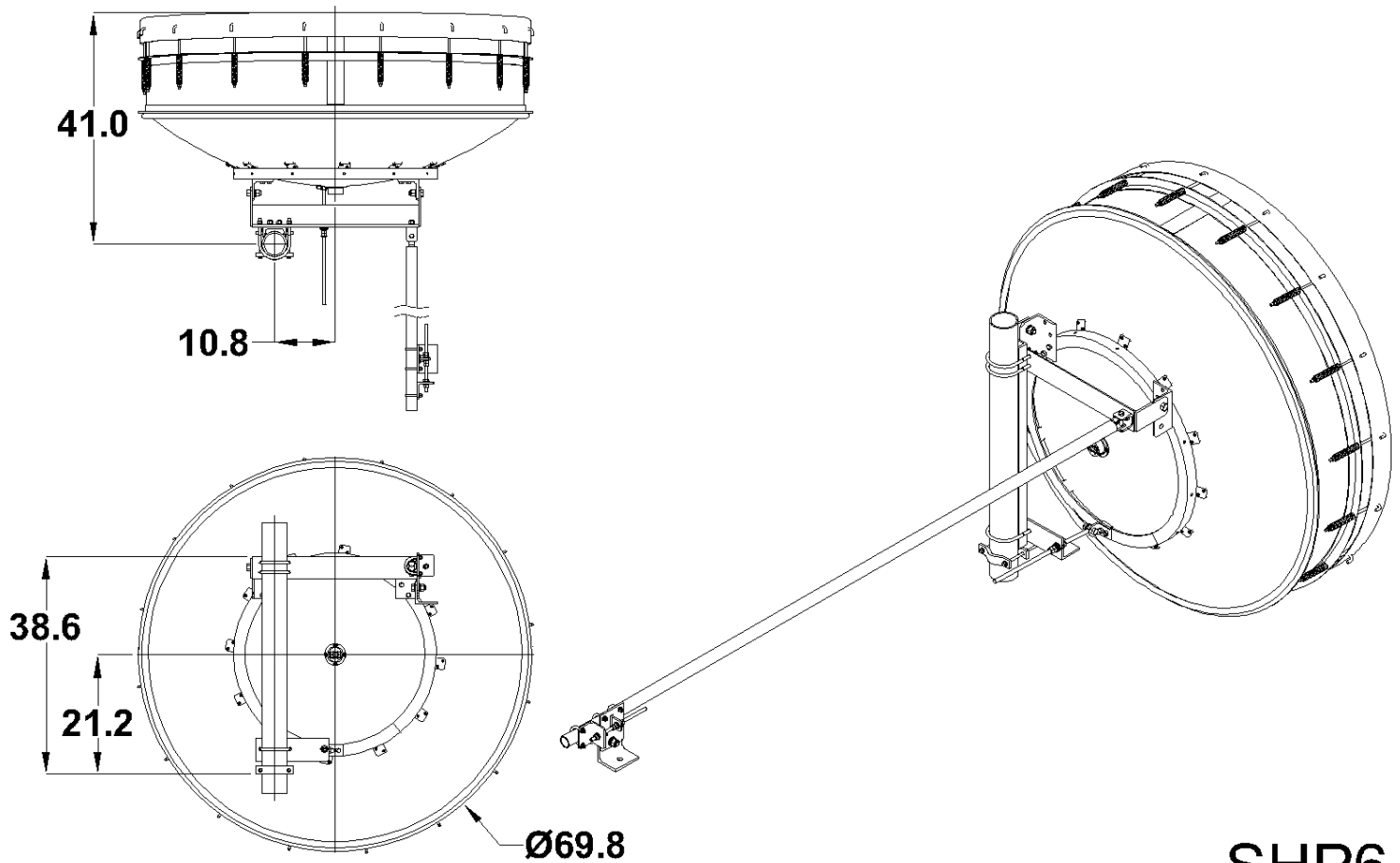
Shipping Information

Package Type	Wood Crate
Gross Weight	403 lbs 182.8 kg

Dimensions, L x W x H	77 x 35 x 80in 195 x 89 x 203 cm
Shipping Volume	124.77 cu ft 3.53 cu m

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

TECHNICAL DRAWINGS



SHP6