

EXHIBIT A
(Legal Description of Tower location)



HP2-10

0.6 m | 2 ft High Performance Parabolic Reflector Antenna,
Single-polarized, 10.15-10.7GHz



General Specifications

Antenna Type	High Performance Parabolic Reflector Antenna
Size, nominal	2 ft 0.6 m
Polarization	Single
Standard RF Connector Type	CPR90G
Standard RF Connector Suffix	RS (append suffix to model number)

Electrical Specifications

Operating Frequency Band	10.15 - 10.7 GHz
Half Power Beamwidth, Horizontal	3.6 degrees
Half Power Beamwidth, Vertical	3.6 degrees
Cross-Polarization Discrimination	30 dB
Front to Back Ratio (F/B)	54 dB
Gain, Low Frequency	33.8 dBi
Gain, Mid Frequency	33.9 dBi

Gain, High Frequency	34 dBi
VSWR	1.37:1
Return Loss	-16.1 dB

Mechanical Specifications

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	27 lbs 12.3 kg
Wind Velocity Operational	90 mph 145 km/h
Wind Velocity Survival Rating	125 mph 201 km/h
Mechanical Configuration	HP2
Axial Force (FA)	202 lbs 899 N
Side Force (FS)	100 lbs 445 N
Twisting Moment (MT)	194 ft-lbs 263 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	SRSP310.5
ETSI	302217 R1 C2
RoHS-compliant	Yes

Shipping Information

Package Type	Cardboard
Gross Weight	48 lbs 28.7 kg
Dimensions, L x W x H	31 x 31 x 25in 79 x 79 x 64 cm

Additional Comments

Contact Radiowaves Sales for alternate rf interface options. Radiowaves specializes in direct connect solutions for microwave radios.

Technical Drawings

