

HP2-11

0.6 m | 2 ft High Performance Parabolic Reflector Antenna, Single-polarized, 10.7-11.7GHz



General Specifications

Antenna Type	High Performance Parabolic Reflector Antenna
Size, nominal	2 ft 0.6 m
Polarization	Single

Electrical Specifications

Operating Frequency Band	10.7 - 11.7 GHz
Half Power Beamwidth, Horizontal	3.4 degrees
Half Power Beamwidth, Vertical	3.4 degrees
Cross-Polarization Discrimination	30 dB
Front to Back Ratio (F/B)	60 dB
Gain, Low Frequency	34.2 dBi
Gain, Mid Frequency	34.5 dBi
Gain, High Frequency	34.8 dBi
VSWR	1.37:1
Return Loss	-16.1 dB

Mechanical Specifications

+/- 10 degrees
+/- 30 degrees
2 inch 5.08 cm
4.5 inch 11.4 cm
27 lbs 12.3 kg
90 mph 145 km/h
125 mph 201 km/h
HP2
202 lbs 899 N
100 lbs 445 N
194 ft-lbs 263 Nm
-40 to +60 C
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Regulatory Compliance

FCC	Part 101 Cat. B
ETSI	302217 R1 C2
RoHS-complaint	Yes

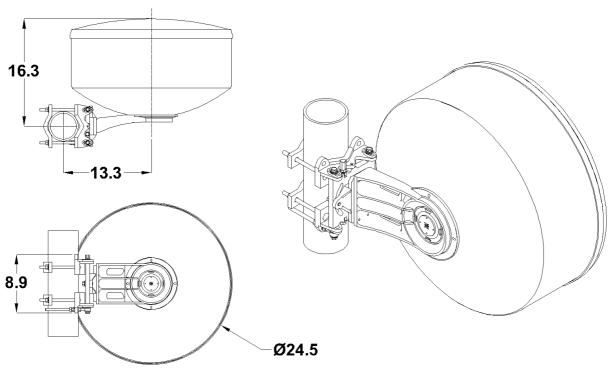
Shipping Information

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
Shipping Volume	13.9 cu ft 0.39 cu m

Additional Comments

Choose Radiowaves products for best performance and reliability

Technical Drawings



HP2

Radiowaves Glossary

Axial Force:	Force applied to the face of the antenna due to wind at specified wind speed
Beamwidth	The total width of the main beam measured in degrees between the 3-dB (half-power) points on either side of the peak of the main beam
Cross Polarization Discrimination (XPD)	The dB difference between maximum received co-polarized signal at electrical boresight and maximum received cross-polarized signal
Front to Back Ratio (F/B)	The dB difference between maximum received signal at electrical boresight to maximum received signal behind the antenna (180 +/- 40 degrees)
Gain	A measure of how well the antenna focuses available energy into a single beam. Larger antennas typically have higher gains and smaller beamwidths.
Gross Weight	Shipping weight, includes weight of antenna plus packaging materials
NetWeight	Weight of antenna only as mounted on tower.
Operating Frequency Band	The frequency limits between which the antenna meets declared specifications. Antennas may operate outside the frequency band with mild performance degradation.
Return Loss	A measure of how much rf energy incident upon the antenna is reflected back from whence it came, expressed as a negative dB value.
Side Force (FS)	Force applied to the side of the antenna due to wind at specified wind speed
Twisting Moment (MT)	The torsional (twisting) moment (force x distance) applied to the mounting pipe due to wind at the specified wind speed.

VSWR	A measure of how much rf energy incident upon the antenna is reflected back from whence it came, expressed as a ratio
Wind Velocity Operational	Wind speed where the antenna deflection is less than or equal to 0.1 degrees
Wind Velocity Survival Rating	Wind speed where the antenna will not suffer permanent damage, but may require re- pointing.