

HPD2-38

0.6 M | 2 FT HIGH PERFORMANCE PARABOLIC REFLECTOR ANTENNA, DUAL-POLARIZED, 37-40GHZ



SPECIFICATIONS

General

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

Standard RF Connector Type	WR28
Standard RF Connector Suffix	RS (append suffix to model number)

Electrical

Operating Frequency Band	37 - 40 GHz
Half Power Beamwidth, Horizontal	1.7 degrees
Half Power Beamwidth, Vertical	1.7 degrees
Cross-Polarization Discrimination	30 dB
Front to Back Ratio (F/B)	72 dB

Gain, Low Frequency	43.8 dBi
Gain, Mid Frequency	44.1 dBi
Gain, High Frequency	44.5 dBi
VSWR	1.37:1
Return Loss	-16.1 dB

Mechanical

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	ETSI	302217 R5 C3
Industry Canada Compliance	undeclared	RoHS-compliant	Yes

Shipping Information

Package Type	Cardboard	Dimensions, L x W x H	31 x 31 x 25in 79 x 79 x 64 cm
Gross Weight	48 lbs 28.7 kg	Shipping Volume	13.9 cu ft 0.39 cu m

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

TECHNICAL DRAWINGS

