

HPCPE-28

0.3 M | 1 FT HIGH PERFORMANCE PARABOLIC REFLECTOR ANTENNA, SINGLE-POLARIZED, 27.3-29.5GHZ

The HP High Performance Series by RadioWaves offers a full line of high performance parabolic antennas engineered to provide ETSI class 2/3 radiation pattern performance as well as excellent gain. RadioWaves field-proven pre-assembled antennas and robust pole-mounts ensure “set and forget” installation with minimal post-installation maintenance. The included radome ensures robust and reliable performance under the most challenging conditions. If it’s rugged, it must be RadioWaves!



FEATURES AND BENEFITS

- High Performance ETSI Class 2/3* Parabolic Antennas – Excellent performance for a wide range of applications
- Fully Preassembled at the Factory – Simplifies installation on site and guarantees “factory-tested” quality
- Warranty – Industry leading 7-year warranty

*ETSI Class depends on frequency band

SPECIFICATIONS

General

Antenna Type	High Performance Parabolic Reflector Antenna	Standard RF Connector Type	WR28
Size, nominal	1 ft 0.3 m	Standard RF Connector Suffix	RS (append suffix to model number)
Polarization	Single		

Electrical

Operating Frequency Band	27.3 - 29.5 GHz	Gain, Low Frequency	35.8 dBi
Half Power Beamwidth, Horizontal	2.2 degrees	Gain, Mid Frequency	36.1 dBi
Half Power Beamwidth, Vertical	2.2 degrees	Gain, High Frequency	36.3 dBi
Cross-Polarization Discrimination	30 dB	VSWR	1.37:1
Front to Back Ratio (F/B)	64 dB	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	15 lbs 6.8 kg
Wind Velocity Operational	90 mph 145 km/h
Wind Velocity Survival Rating	125 mph 201 km/h

Mechanical Configuration	HPCPE
Axial Force (FA)	46 lbs 204 N
Side Force (FS)	13 lbs 58 N
Twisting Moment (MT)	27 ft-lbs 36 Nm
Operating Temperature Range	-40 to +60 C
Max Pressure, PSIG, (if waveguide interface)	5

Regulatory Compliance

FCC	undeclared
Industry Canada Compliance	undeclared

ETSI	302217 R4 C3
RoHS-compliant	Yes

Shipping Information

Package Type	Cardboard
Gross Weight	23 lbs 10.4 kg

Dimensions, L x W x H	25 x 16 x 13in 64 x 41 x 33 cm
Shipping Volume	3.01 cu ft 0.09 cu m

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

TECHNICAL DRAWINGS

