

HPCPE-18

0.3 M | 1 FT HIGH PERFORMANCE PARABOLIC REFLECTOR ANTENNA, SINGLE-POLARIZED, 17.7-19.7GHZ



SPECIFICATIONS

General

Antenna Type	High Performance Parabolic Reflector Antenna	Standard RF Connector Type	WR42
Size, nominal	1 ft 0.3 m	Standard RF Connector Suffix	RS (append suffix to model number)
Polarization	Single		

Electrical

Operating Frequency Band	17.7 - 19.7 GHz	Gain, Low Frequency	33 dBi
Half Power Beamwidth, Horizontal	3.2 degrees	Gain, Mid Frequency	33.5 dBi
Half Power Beamwidth, Vertical	3.2 degrees	Gain, High Frequency	33.9 dBi
Cross-Polarization Discrimination	30 dB	VSWR	1.5:1
Front to Back Ratio (F/B)	57 dB	Return Loss	-14 dB

Mechanical

Fine Azimuth Adjustment	+/- 10 degrees	Mechanical Configuration	HPCPE
Fine Elevation Adjustment	+/- 30 degrees	Axial Force (FA)	46 lbs 204 N
Mounting Pipe Diameter, Min	2 inch 5.08 cm	Side Force (FS)	13 lbs 58 N
Mounting Pipe Diameter, Max	4.5 inch 11.4 cm	Twisting Moment (MT)	27 ft-lbs 36 Nm
Net Weight	15 lbs 6.8 kg	Operating Temperature Range	-40 to +60 C
Wind Velocity Operational	90 mph 145 km/h	Max Pressure, PSIG, (if waveguide interface)	consult factory
Wind Velocity Survival Rating	125 mph 201 km/h		

Regulatory Compliance

FCC	Part 101 Cat. B2
Industry Canada Compliance	SRSP317.8 A

ETSI	302217 R2 C2
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

