HPCPE-42

0.3 M | 1 FT HIGH PERFORMANCE PARABOLIC REFLECTOR ANTENNA, SINGLE-POLARIZED, 40.5-43.5GHZ



SPECIFICATIONS

General

Antenna Type	High Performance Parabolic Reflector Antenna
Size, nominal	1 ft | 0.3 m
Polarization	Single

Standard RF Connector Type	WR15
Standard RF Connector Suffix	RS (append suffix to model number)

Electrical

Operating Frequency Band	40.5 - 43.5 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)	64 dB

Gain, Low Frequency	39.2 dBi
Gain, Mid Frequency	39.5 dBi
Gain, High Frequency	39.8 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	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)	consult factory

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Regulatory Compliance

FCC	undeclared
Industry Canada Compliance	undeclared

ETSI	302217 R6 C2
RoHS-compliant	Yes

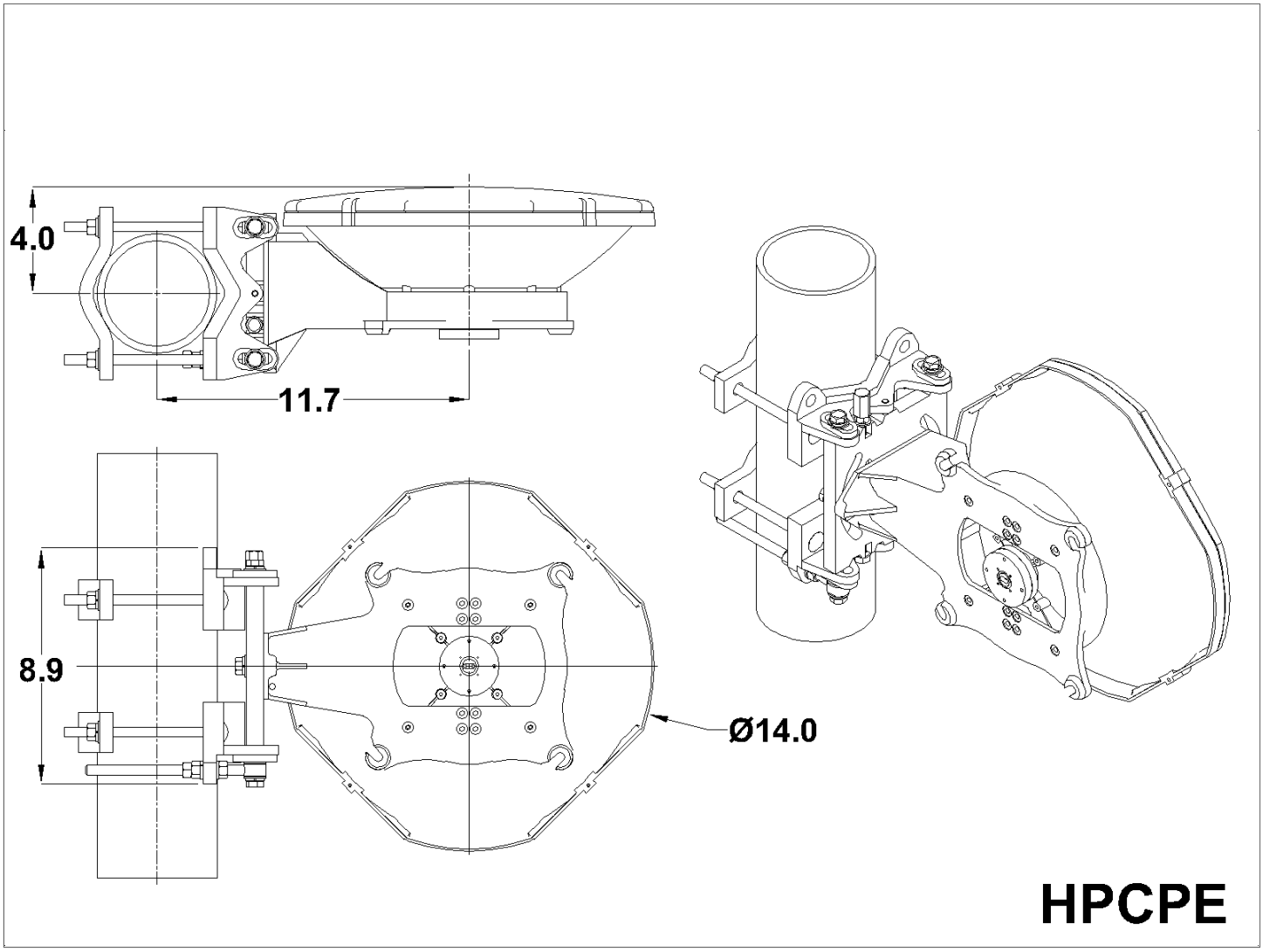
Shipping Information

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



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