

# HPCPE-23

## 0.3 M | 1 FT HIGH PERFORMANCE PARABOLIC REFLECTOR ANTENNA, SINGLE-POLARIZED, 21.2-23.6GHZ

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   | WR42                               |
| Size, nominal | 1 ft   0.3 m                                 | Standard RF Connector Suffix | RS (append suffix to model number) |
| Polarization  | Single                                       |                              |                                    |

#### Electrical

|                                   |                 |                      |          |
|-----------------------------------|-----------------|----------------------|----------|
| Operating Frequency Band          | 21.2 - 23.6 GHz | Gain, Low Frequency  | 34 dBi   |
| Half Power Beamwidth, Horizontal  | 2.9 degrees     | Gain, Mid Frequency  | 34.4 dBi |
| Half Power Beamwidth, Vertical    | 2.9 degrees     | Gain, High Frequency | 34.8 dBi |
| Cross-Polarization Discrimination | 30 dB           | VSWR                 | 1.37:1   |
| Front to Back Ratio (F/B)         | 60 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) | consult factory   |

## Regulatory Compliance

|                            |                 |
|----------------------------|-----------------|
| FCC                        | Part 101 Cat. A |
| Industry Canada Compliance | SRSP23.8 A      |

|                |              |
|----------------|--------------|
| ETSI           | 302217 R3 C3 |
| RoHS-compliant | Yes          |

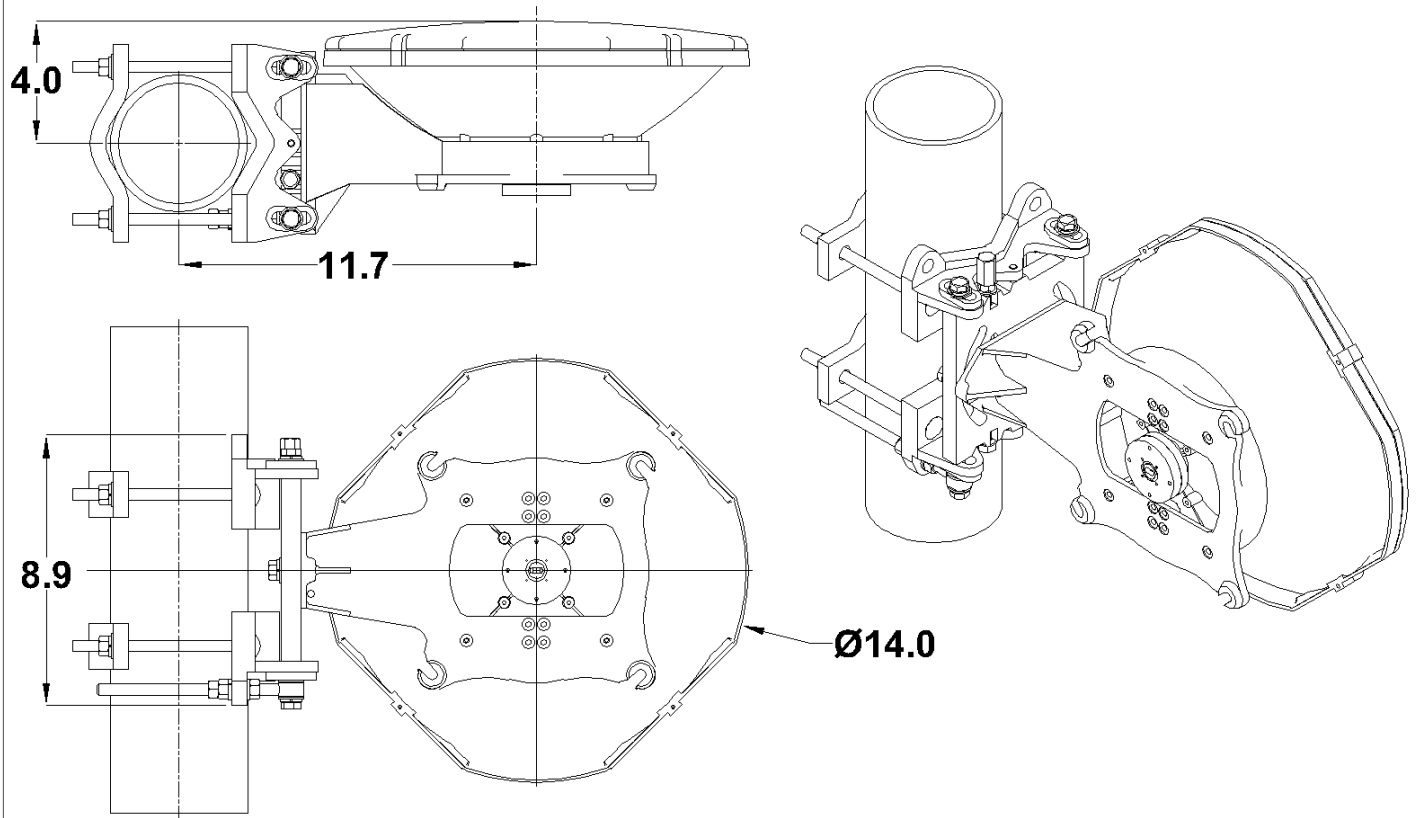
## Shipping Information

|              |                  |
|--------------|------------------|
| 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



# HPCPE