

## ANT780HP00-P

### FIBERGLASS RADOME ANTENNA (PIM)

730 - 930 MHz

The Telewave.io fiberglass radome antennas are rugged omnidirectional antennas suited for most environments. The radome provides protection from corrosive gases, ultraviolet radiation, icing, acid rain, and wind-blown abrasives. The design and construction reduce internally produced intermodulation products. Intrusion and moisture protection is equivalent to an IP24 rating. The default radome color is Cool Blue™.

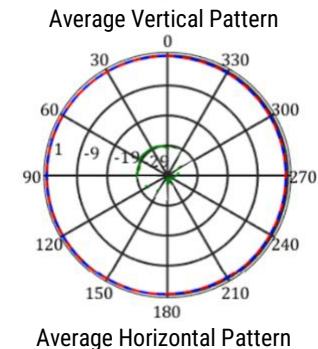
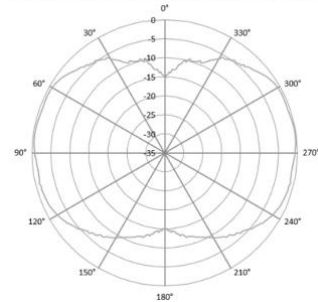
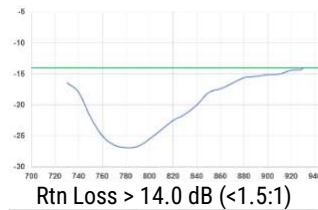
The antenna kit includes a dual clamp set for mounting the antenna to a 1.5" to 3.5" O.D. support mast (Not Included.) Please contact your tower vendor or local structural engineering firm for assistance with mounting hardware requirements and configuration.

#### Variations

Part Number	Connector	Jumper	Default Clamp Set	Mounting
ANT780HP00-P	4.3-10 DIN F	None	ANTC482	Clamps Bottom (Normal)
ANT780HP00-I-P	4.3-10 DIN F	None	ANTC482	Clamps Top (Inverted)

#### Gain by Frequency

Frequency	Peak Gain	Peak Gain
765 MHz	-0.1 dBd	2.0 dBi
800 MHz	-0.4 dBd	1.7 dBi
850 MHz	-0.3 dBd	1.8 dBi



#### SPECIFICATIONS

Frequency Range (Continuous)	730 to 930 MHz	Wind rating / with 0.5" ice (MPH)	225 / 175
Gain	See Chart	Maximum exposed area (sq.ft)	0.63
Power Rating (RMS Continuous)	500 watts / 57 dBm	Lateral Thrust experienced by the antenna 225 MPH (lb)	79.8
Passive Intermodulation (PIM) Rating	-150 dBc	Bending Moment transfer to top clamp 225 MPH (lb-ft)	59.5
Peak Instantaneous Power (PIP) Rating	25 kW	Ferrule Dimension Inches (H" x D")	10 x 3.25 (25.4 x 8.25)
Beam width Vertical / Horizontal	80° / 360°	Radome Dimensions Inches (H" x D")	17.9 x 3.0 (45.5 x 7.6)
Supported Polarization	Vertical	Total Length Inches (H")	28 (71.1)
Vertical Beam Tilt (from horizon)	0°	Installed Weight Lbs (Antenna + Default Clamp)	20 + 11 (9.1 + 5 Kg)
RF Impedance	50 Ohms	Antenna Shipping Mode (Freight/UPS/FedEx/etc.)	All Modes
DC Impedance	Open	Shipping Tube Weight - Antenna + ANTC482 clamp (lbs)	40 (18.2 Kg)
Input VSWR / Return Loss (Minimum)	1.5:1 / 14 dB	Shipping Box Dimensions (L" x W") (Round Tube)	43 x 4.25 (109.2 x 11)
Coastal / Salt Air Suitable	Yes	Default Clamp Shipping Weight - Separate Box (lbs)	NA
Temperature Range (Operating or Storage)	-58 to +140 °F -50 to +60 °C	Default Clamp Shipping Box Dimensions (L" x W" x H")	NA
PIM <sub>≥</sub>	135		

## ANTC482

### Clamp Kit for Radome Antennas: HP F6 F8 & F10

Fits mast or support structure with an outside diameter 1.5" to 4.0"

#### WARNING

For your safety: do not install any antenna near power lines, carefully follow all installation instructions, and use safety devices when climbing. Ensure that the tower structure is properly and safely grounded.

If the antenna falls toward or contacts any overhead wires, LET GO IMMEDIATELY and stay away. Contact the utility company for assistance.

Consult a qualified structural engineer to verify that the tower and all mounting hardware are sufficient to support the antenna and RF cables.

The mounting clamps must be properly installed and spaced to prevent antenna rotation from wind loading. Each installation is unique.

#### MOUNTING INSTRUCTIONS

1. Apply anti-seize compound to the threaded rod ends.
2. Mount  $\frac{1}{2}$  of each clamp set to the mast using two of the plates and supplied hardware. Set the clamps so that the vertical spacing will line up with the antenna ferrule with a minimum of 1" of ferrule exposed above and below the two clamp sets. Keep about  $\frac{1}{2}$ " of threaded rod exposed on the mast side.
3. Tighten both clamp sets until the lock washers are flat. Then perform an additional half turn on each nut.
4. Mount upper clamp plates and hardware onto the rods but leave loose so that the antenna can be placed into the clamp.
5. Feed the antenna ferrule through the clamp until aligned with the upper attachment point (lower if an inverted antenna). Partially tighten the hex nuts and straighten the antenna until it is vertical.
6. Attach and secure the lower (upper if inverted antenna) antenna clamp and hardware. Tighten both clamps until the lock washers are flat. Then perform an additional half turn on each nut.
7. Connect RF feed cable to antenna input connector.
8. Secure all cables with UV-Resistant cable ties.
9. Seal the input connector with waterproof tape or other sealing material. Sealing instructions can be found at [www.telewave.com](http://www.telewave.com)

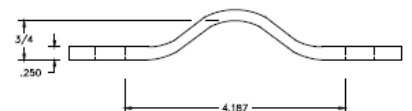
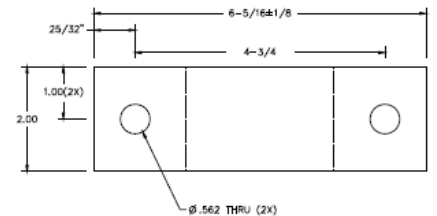


ANTC482 Clamp Kit

- (8) 2" x 6.3125" Galvanized Plates
- (4) 1/2"-13 x 10" Stainless Steel Rods
- (16) 1/2" Stainless Steel Hex Nuts
- (16) 1/2" Stainless Split Lock Washers
- (1) Tube of Anti-Seize Compound



ANTC482 Clamp Kit



Clamp Plate Details