



**734 - 806 MHz**

# ANT770F2 SERIES

## FIBERGLASS COLLINEAR ANTENNA 2.5 dBd

### PIM/PIP Models Available

Part: ANT770F2-PIM, PIM - Only

Part: ANT770F2-PIM-PIP, PIM + PIP

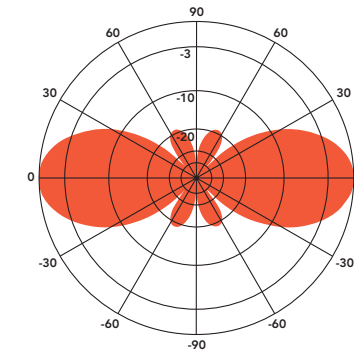
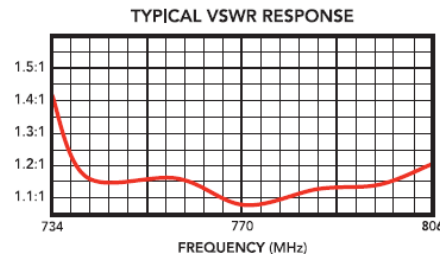
The Telewave Collinear line of antennas are rugged omnidirectional antennas suited for most environments, see the exact model specifications below.

These antennas are constructed with brass and copper elements that are soldered together; producing both a DC path to ground and preventing internally produced intermodulation products. Telewave's PIM-Rated antennas are carefully built using specially treated materials and a meticulous assembly process to achieve a -150 dBc PIM rating or better.

The "Cool Blue" fiberglass radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, acid rain, and wind-blown abrasives. Intrusion and water protection is equivalent to an IP24 rating.

When ordering, specify all TX and RX frequencies that will be used on the antenna. Telewave's support can assist with any special mounting needs.

Part Number	Connector	Jumper	Clamp Kit (Included)	Mounting
ANT770F2	N-F	24" RG213 M-M	ANTC485	Clamps Bottom (Normal)
ANT770F2-I	N-F	24" RG213 M-M	ANTC485	Clamps Top (Inverted)
ANT770F2-DIN	DIN-F	None	ANTC485	Clamps Bottom (Normal)
ANT770F2-IDIN	DIN-F	None	ANTC485	Clamps Top (Inverted)
ANT770F2-PIM	DIN-F	None	ANTC485	Clamps Bottom (Normal)
ANT770F2-IPIM	DIN-F	None	ANTC485	Clamps Top (Inverted)
ANT770F2-PIM-PIP	DIN-F	None	ANTC485	Clamps Bottom (Normal)
ANT770F2-IPIM-PIP	DIN-F	None	ANTC485	Clamps Top (Inverted)



(Mast not included)

SPECIFICATIONS			
Frequency (continuous)	734 - 806 MHz	Passive intermodulation rating*	-150 dBc or better
Gain	2.5 dBd	PIP rating**	25 KW
Power rating (Type.)	500 watts	Tower weight (antenna + clamps)	8 lbs.
Impedance	50 ohms	Wind rating / with 0.5" ice	225 / 175 MPH
Input VSWR	1.5:1 or less	Maximum exposed area	0.9 ft. <sup>2</sup>
Pattern	Omnidirectional	Lateral thrust at 100 MPH	35 lbs.
Vertical beamwidth	38°	Shipping weight	10 lbs.
Coastal / Salt Air Suitable	No	Full antenna dimensions (L x D) in (cm)	38 x 2.75 (96.52 x 7)
Temperature range	-58 to +140 °F	Base pipe dimensions (L x D) in (cm)	11.5 x 2.75 (29.21 x 7)
	-50 to +60 °C	Radome dimensions (L x D) in (cm)	26.5 x 2.5 (67.31 x 6.35)
* Specifications applicable only to PIM-Rated Models	** Specifications applicable only to PIP-Rated Models	Shipping dimensions (L X W X H) in (cm)	44 x 7 x 5 (111.76 x 17.78 x 12.7)



## INSTALLATION GUIDE FOR COLLINEAR ANTENNAS MODELS: F2

### **WARNING:**

For your safety, do not install any antenna near power lines and carefully follow all installation instructions. Always use safety devices for tower climbing. Ensure that the tower structure is well grounded for lightning protection.

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

### **IMPORTANT - BEFORE ASSEMBLING AND MOUNTING**

Both clamps must be properly installed and spaced to prevent antenna rotation from wind load. Make sure you have all parts ready prior to installation, see on the right.

### **MOUNTING INSTRUCTIONS**

1. The welded mounting slots are intended to be placed against the support structure when used with the supplied clamp set. When using any other clamp set, the mounting slots should be turned to one side, out of contact with the support.
2. Apply anti-seize compound to the ends of each u-bolt. Place a loosely assembled clamp over the top of the mast. Feed the antenna base ferrule down through the clamp until aligned with the upper attachment point. Tighten down the hex nuts and straighten the antenna until clamped into a vertical position.
3. Attach and secure the lower antenna clamp with the supplied hex nuts and lock washers, to provide reasonable pressure to the support structure and antenna base ferrule.
4. Connect RF feed cable terminated with Type-N or 7-16 DIN as required to antenna input connector. Secure all cables with UV-Resistant cable ties.
5. Be sure to properly seal the input connector with waterproof tape or other sealing material. Refer to Telewave TWDS-0502 for a recommended method of connector sealing.

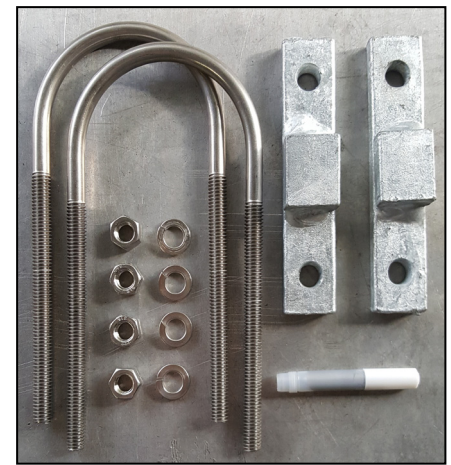


Figure 1: ANTC485 Clamp Kit

### **Clamp Kit Contents (Figure 1):**

- (2) Clamp Plates
- (2) 3/8"-16 Stainless U-Bolts
- (4) Hex Nuts
- (4) Lock Washers
- (1) Tube of Anti-Seize Compound

### **F2-SERIES DIMENSIONS**

Ferrule (L x D) in (cm): 11.5 x 2.75 (29.21 x 7)  
Clamp Spacing (L) in (cm): 7.5 (19)

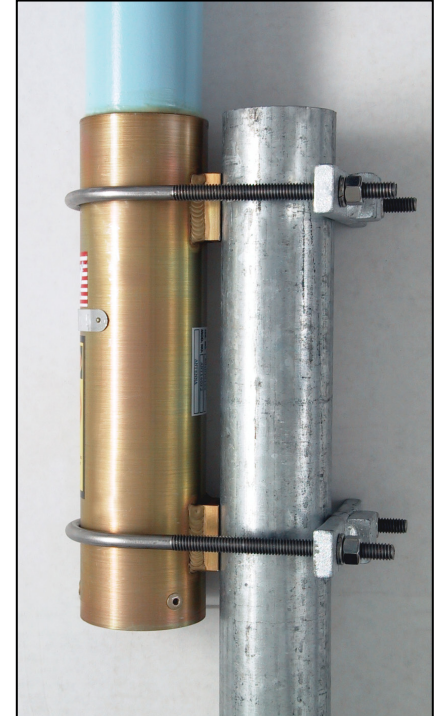


Figure 2: Typical Mounting Configuration