



734 - 960 MHz

ANT734-960F2 SERIES

FIBERGLASS COLLINEAR ANTENNA 2.5 dBd

PIM/PIP Models Available

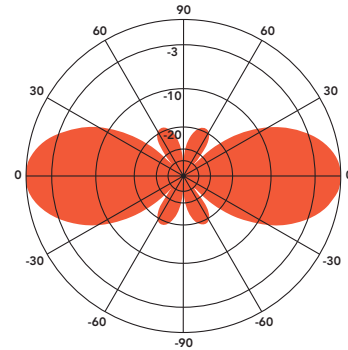
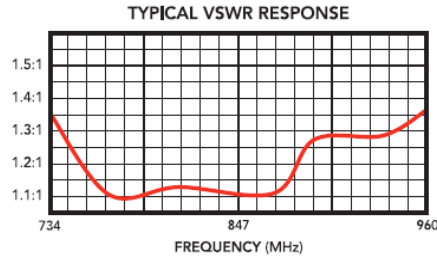
Part: ANT734-960F2-PIM, PIM - Only
 Part: ANT734-960F2-PIM-PIP, PIM + PIP

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.



Vertical Plane
 Gain = 2.5 dBd
 Antenna Pattern available on website



| Part Number | Connector | Jumper | Clamp Kit (Included) | Mounting |
|-----------------------|-----------|---------------|----------------------|------------------------|
| ANT734-960F2 | N-F | 24" RG213 M-M | ANTC485 | Clamps Bottom (Normal) |
| ANT734-960F2-I | N-F | 24" RG213 M-M | ANTC485 | Clamps Top (Inverted) |
| ANT734-960F2-DIN | DIN-F | None | ANTC485 | Clamps Bottom (Normal) |
| ANT734-960F2-IDIN | DIN-F | None | ANTC485 | Clamps Top (Inverted) |
| ANT734-960F2-PIM | DIN-F | None | ANTC485 | Clamps Bottom (Normal) |
| ANT734-960F2-IPIM | DIN-F | None | ANTC485 | Clamps Top (Inverted) |
| ANT734-960F2-PIM-PIP | DIN-F | None | ANTC485 | Clamps Bottom (Normal) |
| ANT734-960F2-IPIM-PIP | DIN-F | None | ANTC485 | Clamps Top (Inverted) |

(Mast not included)

| SPECIFICATIONS | | | |
|--|---|---|---------------------------------------|
| Frequency (continuous) | 734 - 960 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. ² |
| 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)

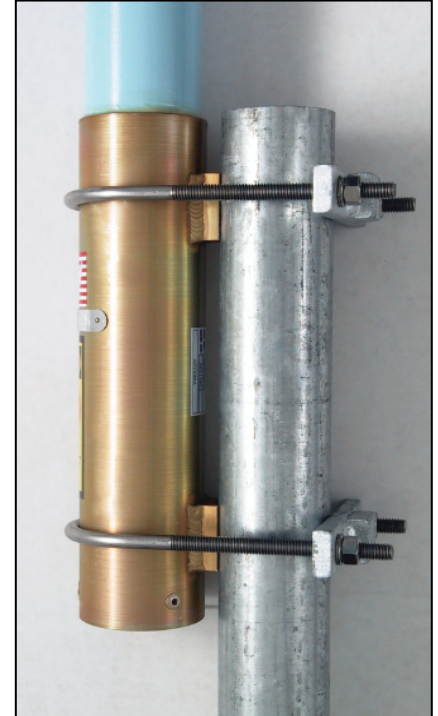


Figure 2: Typical Mounting Configuration