

Overview

Southwest Antennas Part # 1085-202 is an omni-directional 2 Section Collinear dipole antenna that operates in the UHF band from 734 - 960 MHz and offers 4.5 dBi of peak gain.

This antenna features rugged construction and a tough fiberglass radome making it ideal for use in harsh outdoor conditions. The included mounting kit allows for secure connection to 1.5" - 3.5" OD pipes or masts.

Applications include permanent ground communication stations and temporary installations for short-term communication networks, including Public Safety Radio Systems.

Features:

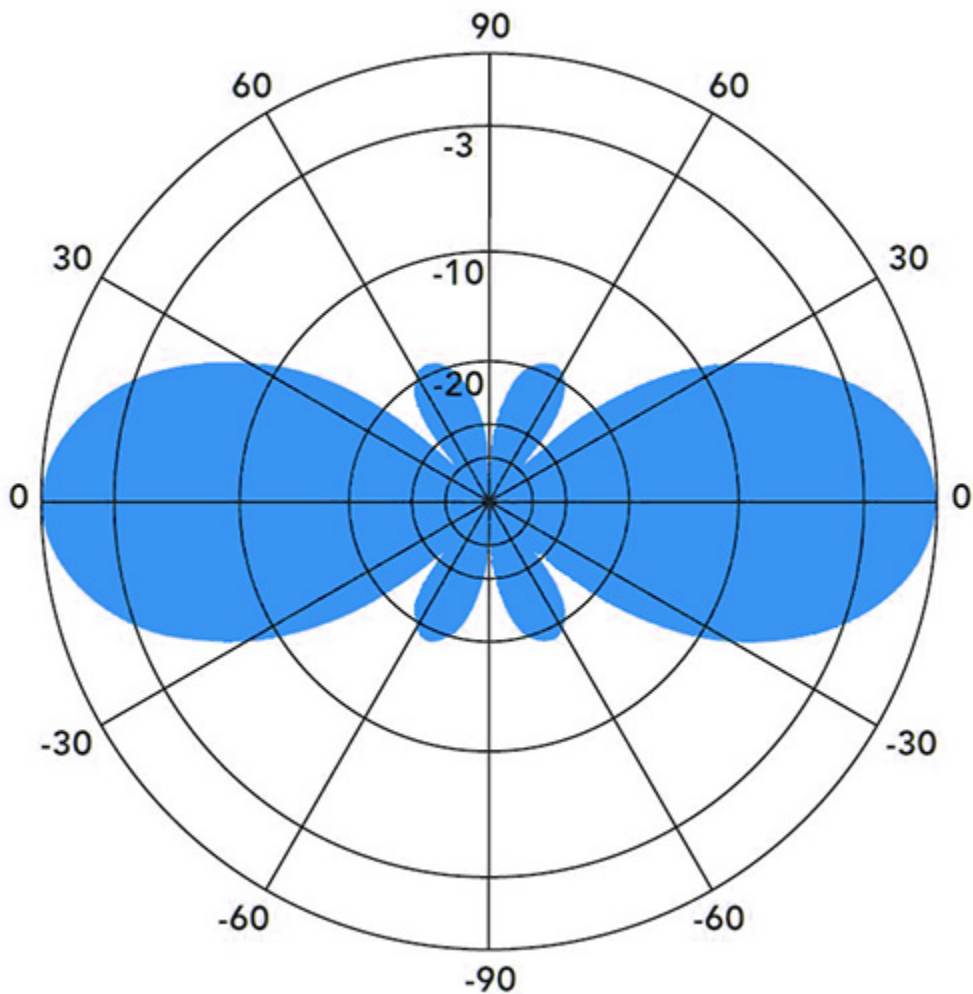
- UHF 2 Section Collinear Dipole Antenna
- 734 - 960 MHz
- 500W power handling
- 4.5 dBi Omni Radiation Pattern
- Rugged Construction for Harsh Outdoor Conditions
- Type-N(f) RF Connector
- DC Ground Connection for Lighting Protection
- Included Mounting Kit for 1.5" - 3.5" OD Poles and Masts



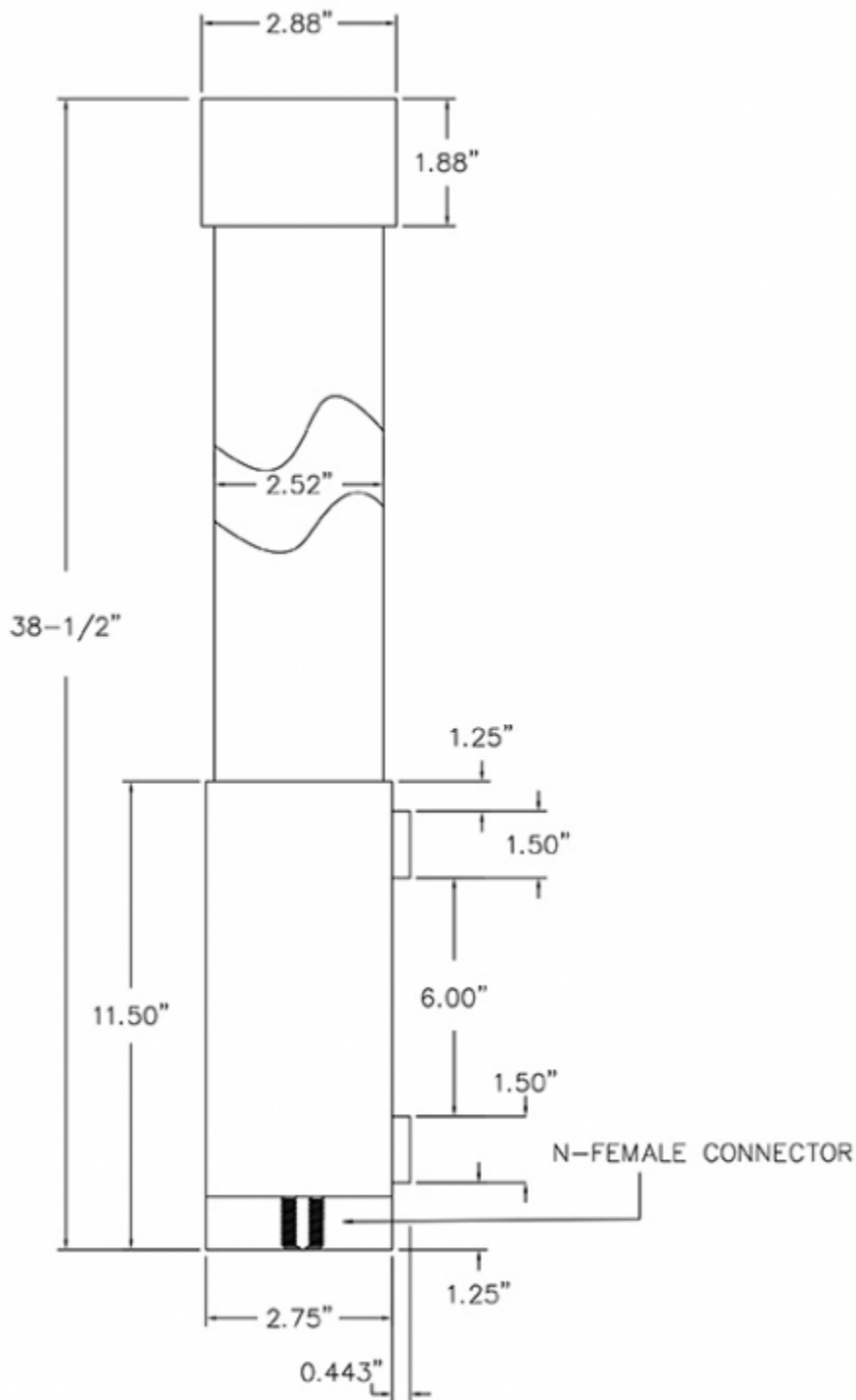
Antenna Specifications

| Parameter | Value | Units | Tolerance |
|------------------------------------|---|-------------|-----------|
| Antenna Pattern | Omni Antenna | | |
| Frequency Band | UHF | | |
| Impedance | 50 | Ohms | |
| Minimum Frequency | 0.734 / 734 | GHz / MHz | |
| Maximum Frequency | 0.96 / 960 | GHz / MHz | |
| Frequency Bandwidth | 0.226 / 226 | GHz / MHz | |
| Maximum VSWR | 1.5:1 | Ratio | |
| Maximum Gain | 4.5 | dBi | |
| Polarization | Vertical | | |
| Maximum RF Input Power | 500 | Watts | |
| Horizontal (AZ) Beamwidth | 360 | Degrees | |
| Vertical (EL) Beamwidth | 38 | Degrees | |
| Ground Plane Required | No | | |
| Radome Material | Fiberglass | | |
| Color | Light Blue | | |
| Mount Style | Dual clamp set for mounting to 1.5" to 3.5" OD support pipe | | |
| Maximum Wind Velocity | 200 | mph | |
| RF Connector Type | Type-N(f) | | |
| RF Cable Type | RG-213 | | |
| RF Cable Length | 24.00 / 609.60 | inches / mm | |
| Operating Temperature Range | -40 to +60 | C | |

| Parameter | Value | Units | Tolerance |
|-------------------------|----------------|-------------|---------------------|
| Product Length | 38.50 / 977.90 | inches / mm | |
| Product Diameter | 2.75 / 69.85 | inches / mm | |
| Product Weight | 8.0 / 3.6 | lbs / kg | Including Mount Kit |



Elevation Pattern



Engineering Drawing

All dimensions are in inches