

## Overview

Southwest Antennas Part # 1001-154 is a half wave dipole omni antenna with a frequency range of 1,250 - 1,850 MHz and 2.05 dBi of peak gain. This antenna features a black chrome non-rotating TNC(m) RF connector.

Southwest Antennas' Ultra-Flex Omni Antennas are a line of rugged, small form factor dipole antennas that features an innovative environmentally-sealed spring base, giving the antenna flexibility to deflect/bend with impacts and return to its original vertical position. The integrated spring design minimizes stress placed on the antenna and radio connection, and can help prevent damage to both in the event of an impact.

The spring is fully sealed to prevent rain, dust, and other debris from impacting antenna performance, which is also fully submersible once securely mated to a radio. A G10 fiberglass radome holds up to abuse in the field, and a low-glare black finish helps the antenna blend into surroundings and not draw attention.

## Features

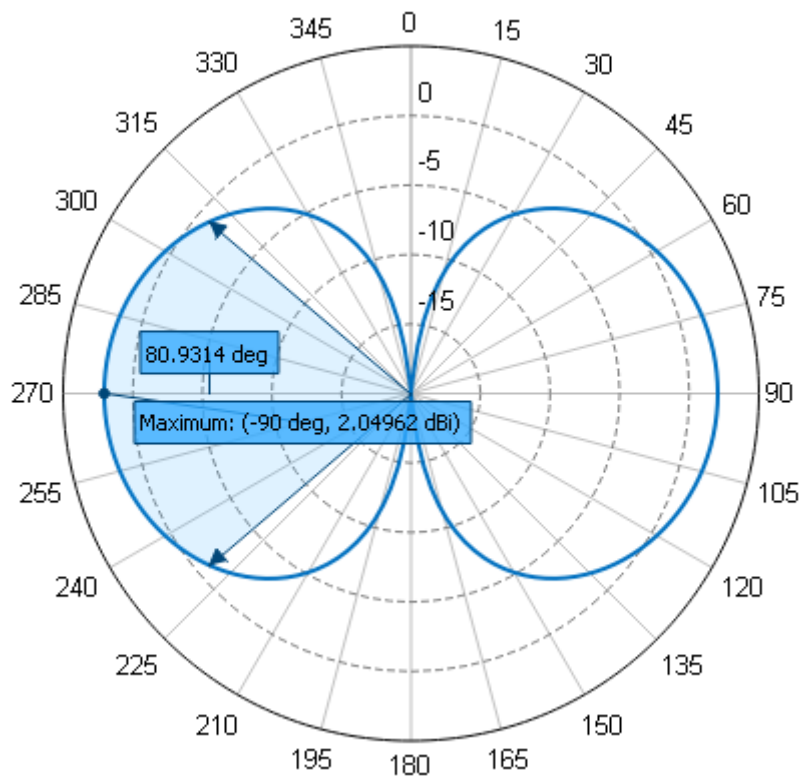
- Broad Band Coverage
- Half Wave Dipole Design
- 1,250 - 1,850 MHz
- 50W Power Handling
- 2.05 dBi Omni Radiation Pattern
- Ultra-Flex Weatherproof Sealed Spring Base
- Black Chrome Non-Rotating TNC(m) Connector



## Product Specifications

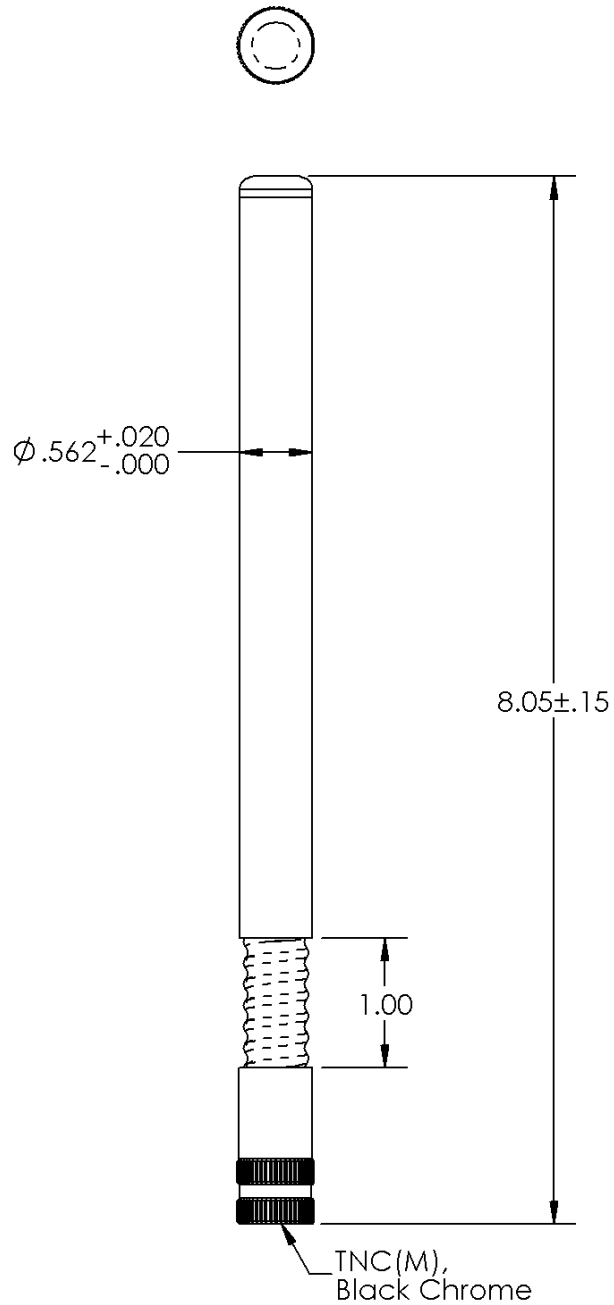
| Parameter               | Value               | Units       | Tolerance |
|-------------------------|---------------------|-------------|-----------|
| Antenna Pattern         | Omni Antenna        |             |           |
| Frequency Band          | L                   |             |           |
| Impedance               | 50                  |             |           |
| Minimum Frequency       | 1.25 / 1,250        | GHz / MHz   |           |
| Maximum Frequency       | 1.85 / 1,850        | GHz / MHz   |           |
| Frequency Bandwidth     | 0.6 / 600           | GHz / MHz   |           |
| Maximum VSWR            | 2:1                 | Ratio       |           |
| Maximum Gain            | 2.05                | dBi         |           |
| Polarization            | Vertical            |             |           |
| Color                   | Black               |             |           |
| Maximum RF Input Power  | 50                  | Watts       |           |
| Horizontal AZ Beamwidth | 360                 | Degrees     |           |
| Vertical EL Beamwidth   | 81                  | Degrees     |           |
| Spring Or Gooseneck     | Spring              |             |           |
| Spring                  | Yes                 |             |           |
| Spring Length           | 1.00 / 25.4         | inches / mm |           |
| Spring Diameter         | 0.5 / 12.7          | inches / mm |           |
| Spring Bend             | ±90                 | Degrees     | Maximum   |
| Gooseneck               | Yes                 |             |           |
| Ground Plane Required   | No                  |             |           |
| Maximum Wind Velocity   | 161                 | kph         |           |
| RF Connector Type       | TNC(m) Non-Rotating |             |           |

| Parameter                   | Value         | Units       | Tolerance       |
|-----------------------------|---------------|-------------|-----------------|
| RF Connector Finish         | Black Chrome  |             |                 |
| Operating Temperature Range | -40 to +85    | C           |                 |
| Product Height              | 8.05 / 204.47 | inches / mm | ±.15"           |
| Product Diameter            | .562 / 14.275 | inches / mm | +.020" / -.000" |
| Product Weight              | 2.24 / 63.50  | oz / g      | TBD             |



### Elevation Pattern

Referenced to +5 dBi



## Engineering Drawing

All dimensions are in inches