

## Overview

Southwest Antennas Part # 1001-161 is a half wave dipole omni antenna with a frequency range of 1,755 to 2,270 MHz and 2.1 dBi of peak gain.

1001-161 features an integrated waterproof 3.09" RF Gooseneck which contributes to the improvement of RF link margin and overall antenna performance. Our proprietary antenna design and manufacturing process ensures optimum antenna RF performance.

A non-rotating TNC(m) RF connector allows the antenna to be easily secured or removed from equipment in the field by a single gloved hand, no tools required.

Antennas with integrated RF Goosenecks are ideal for handheld video receivers, portable radio systems, or any other mobile communication platform. The RF Gooseneck can be threaded through MOLLE gear or other tactical vest hardware for added security while moving.

A rugged flat black fiberglass radome provides protection from damage and gives the antenna a low visibility finish. The integrated RF Gooseneck allows the antenna to bend and deflect away from impacts during indoor or outdoor operations.

## Features:

- Broad Band Coverage
- Half Wave Dipole Design
- 1,755 - 2,270 MHz
- 50W Power Handling
- 2.1 dBi Omni Radiation Pattern
- Integrated RF Coaxial Gooseneck with Waterproof Neoprene Heatshrink Seal
- Waterproof to 20 meters / 65.6 ft
- Black Chrome Non-Rotating TNC(m) Connector



### Antenna Specifications

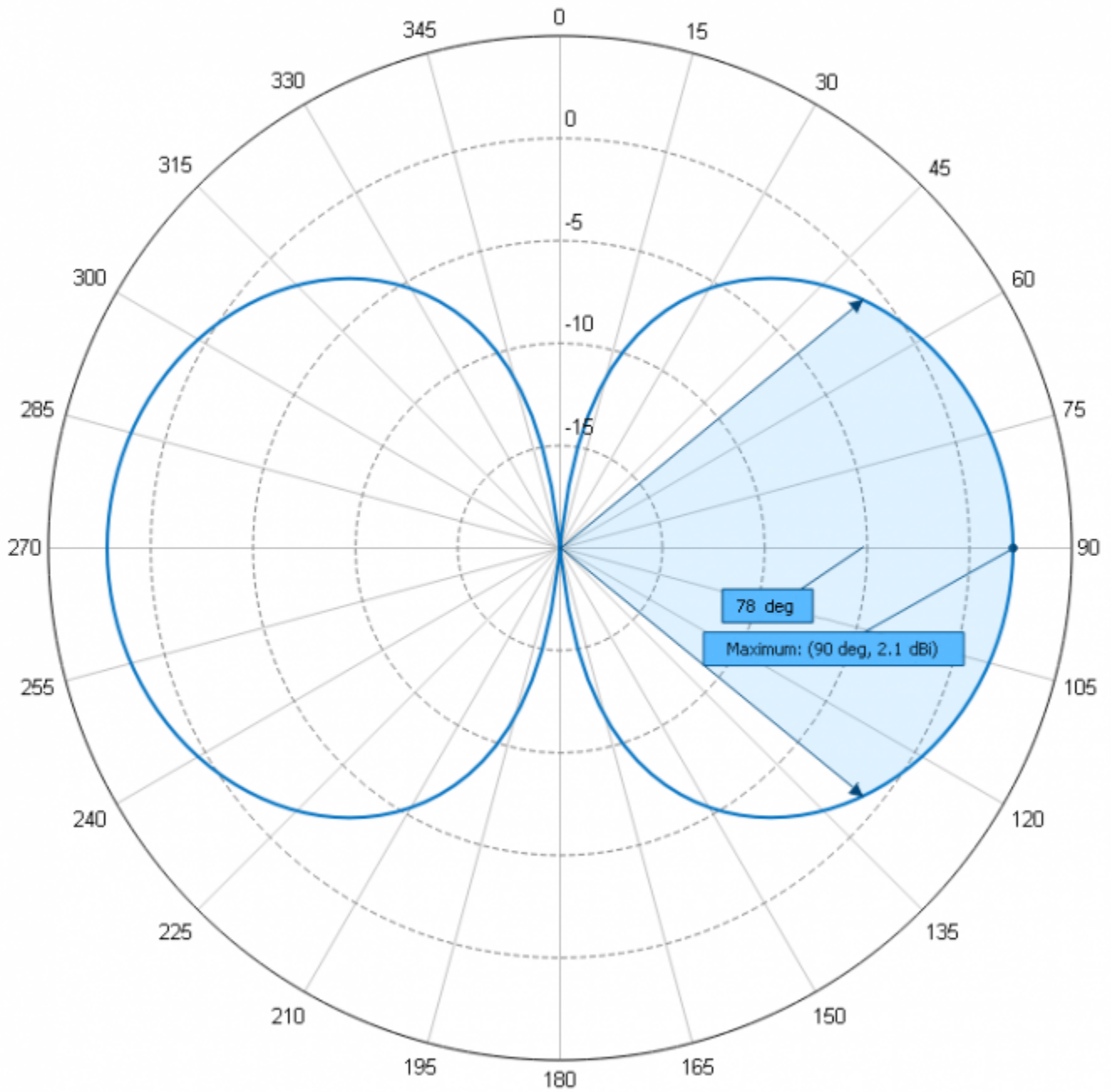
Parameter	Value	Units	Tolerance
<b>Antenna Pattern</b>	Omni Antenna		
<b>Frequency Band</b>	L & S		
<b>Impedance</b>	50	Ohms	
<b>Minimum Frequency</b>	1.755 / 1,755	GHz / MHz	
<b>Maximum Frequency</b>	2.27 / 2,270	GHz / MHz	
<b>Frequency Bandwidth</b>	0.515 / 515	GHz / MHz	
<b>Maximum VSWR</b>	2.0:1	Ratio	
<b>Maximum Gain</b>	2.1	dBi	
<b>Polarization</b>	Vertical		
<b>Maximum RF Input Power</b>	50	Watts	
<b>Horizontal (AZ) Beamwidth</b>	360	Degrees	
<b>Vertical (EL) Beamwidth</b>	78	Degrees	
<b>Ground Plane Required</b>	No		
<b>Color</b>	Black		
<b>Spring or Gooseneck</b>	Gooseneck		
<b>Gooseneck Length</b>	3.090 / 78.486	inches / mm	±.09"
<b>Gooseneck Diameter</b>	0.385 / 9.779	inches / mm	+ .010" / -.005"
<b>Immersion</b>	Waterproof to 20 meters / 65.6 ft		
<b>RF Connector Type</b>	TNC(m) Non-Rotating		
<b>RF Connector Features</b>	Black Chrome		
<b>Product Height</b>	8.100 / 205.740	inches / mm	±.15"



**Part # 1001-161**  
**Omni Antenna, Half Wave Dipole, 1,755 - 2,270 MHz, 2.1 dBi, Integrated**  
**Sealed RF Coaxial Gooseneck**

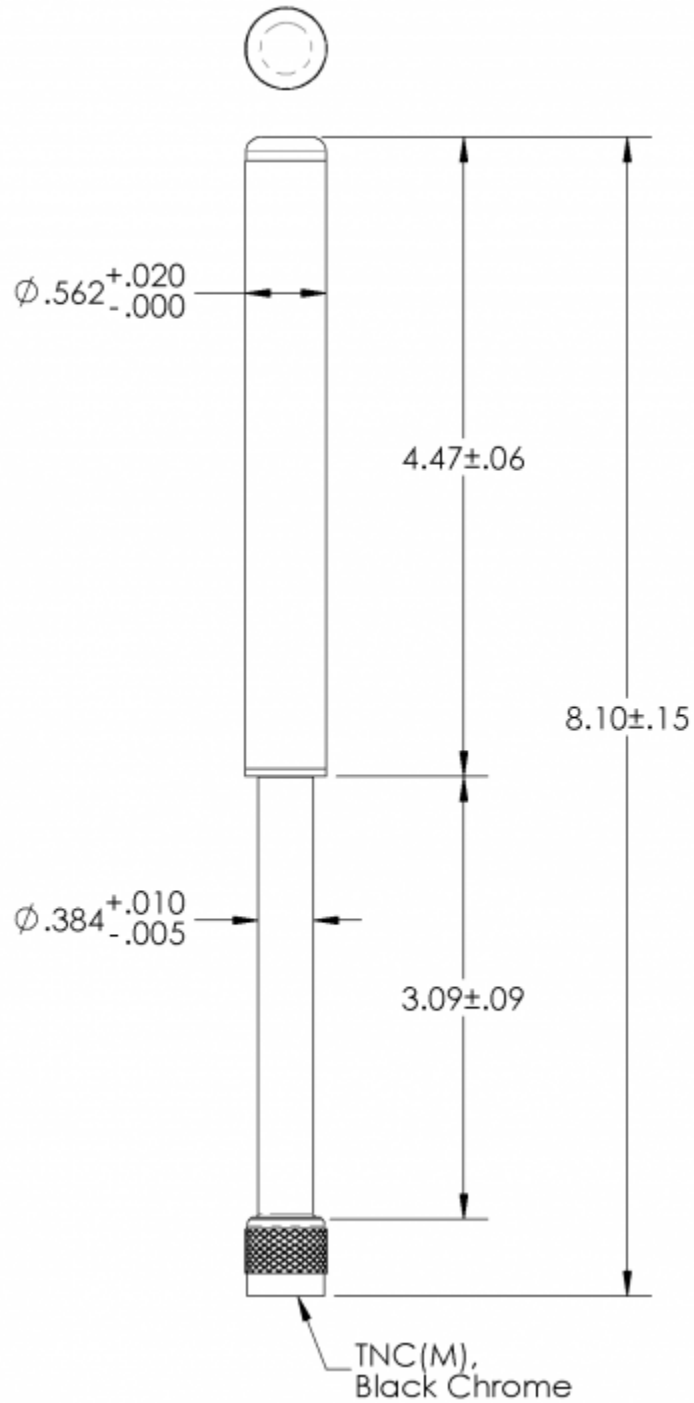
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Parameter	Value	Units	Tolerance
<b>Product Diameter</b>	0.562 / 14.275	inches / mm	+.020" / -.000"
<b>Product Weight</b>	1.92 / 54.43	oz / grams	Estimated



**Elevation Pattern**

Referenced to +5 dBi



### Engineering Drawing

All dimensions are in inches