

## Overview

Southwest Antennas Part # 1001-177 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.

1001-177 features an integrated waterproof 3.43" 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 SMA(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:

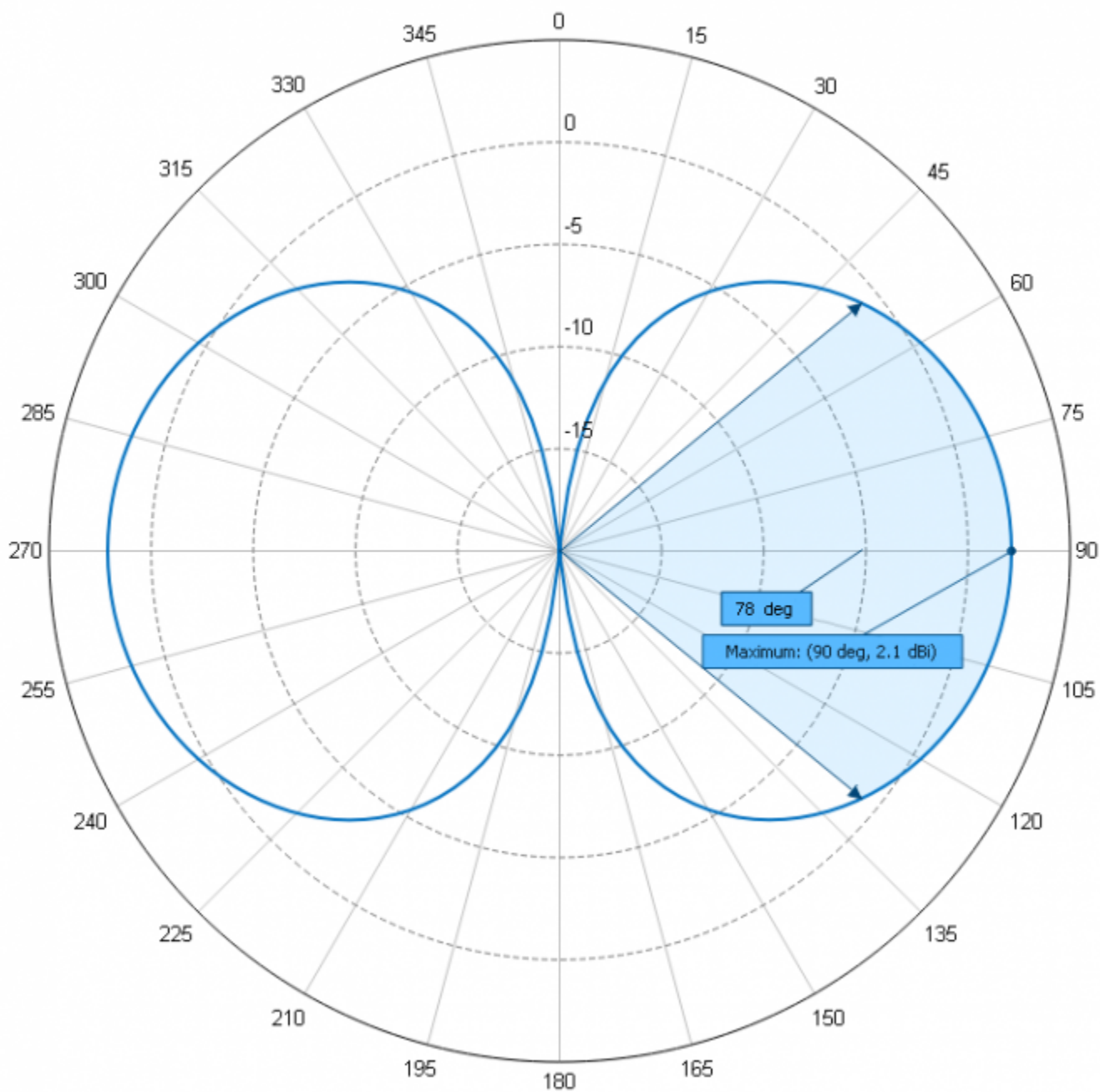
- Broad Band Coverage
- Half Wave Dipole Design
- 1,755 - 2,270 MHz
- 50W Power Handling
- 2.1 dBi Omni Radiation Pattern
- Integrated RF Coaxial Gooseneck with Waterproof Neoprene Heatshrink Seal
- Waterproof to 20 meters / 65.6 ft
- Black Chrome Non-Rotating SMA(m) Connector



### Antenna Specifications

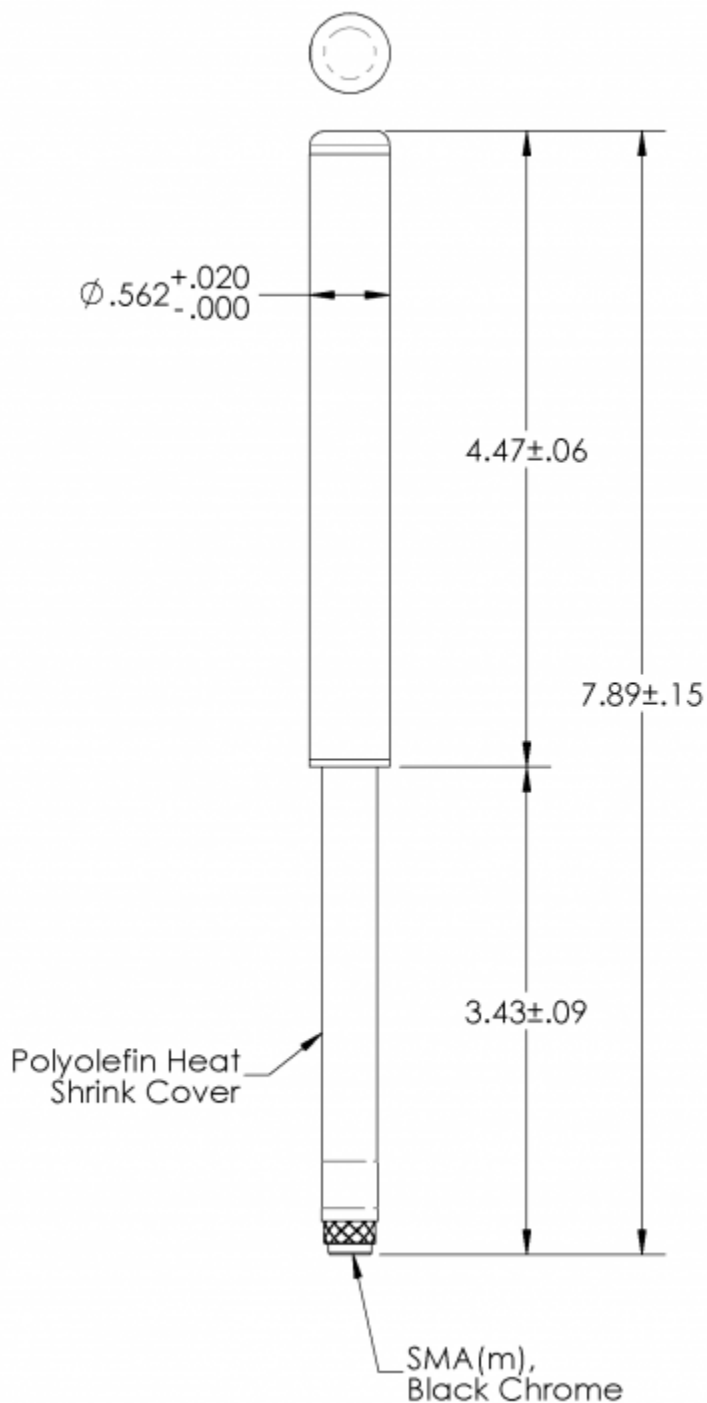
Parameter	Value	Units	Tolerance
Antenna Pattern	Omni Antenna		
Frequency Band	L & S		
Impedance	50	Ohms	
Minimum Frequency	1.755 / 1,755	GHz / MHz	
Maximum Frequency	2.27 / 2,270	GHz / MHz	
Frequency Bandwidth	0.515 / 515	GHz / MHz	
Maximum VSWR	2.0:1	Ratio	
Maximum Gain	2.1	dBi	
Polarization	Vertical		
Maximum RF Input Power	50	Watts	
Horizontal (AZ) Beamwidth	360	Degrees	
Vertical (EL) Beamwidth	78	Degrees	
Ground Plane Required	No		
Radome Material	Fiberglass		
Color	Black		
Spring or Gooseneck	Gooseneck		
Gooseneck Length	3.49 / 88.65	inches / mm	±.09"
Gooseneck Diameter	0.39 / 9.78	inches / mm	+ .010" / -.005"
Immersion	Waterproof to 20 meters / 65.6 ft		
RF Connector Type	SMA(m) Non-Rotating		
RF Connector Features	Black Chrome		

Parameter	Value	Units	Tolerance
<b>Product Height</b>	7.89 / 200.41	inches / mm	±.15"
<b>Product Diameter</b>	0.56 / 14.27	inches / mm	+.020" / -.000"
<b>Product Weight</b>	1.8 / 49.9	oz / grams	



**Elevation Pattern**

Referenced to +5 dBi



**Engineering Drawing**

All dimensions are in inches