

Overview

Southwest Antennas Part # 1001-152 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 product features an integrated GPS band notch filter inside of the antenna to help prevent radios utilizing this antenna from impacting co-located GPS receivers.

1001-152 features an integrated 3" RF Gooseneck with black chrome TNC(m) RF connector, 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.

The TNC(m) RF connector can 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

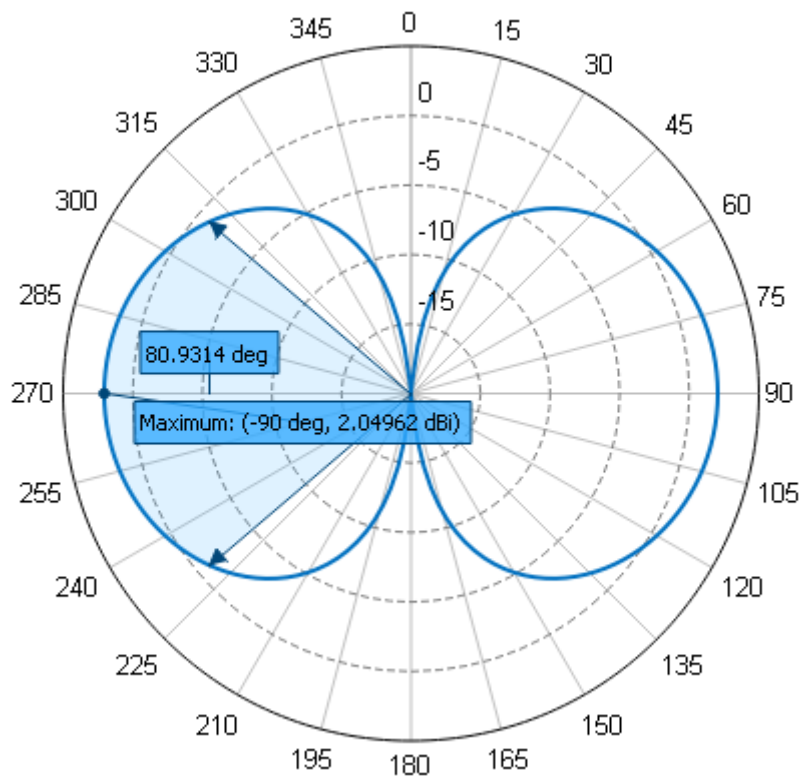
- Broad Band Coverage
- Half Wave Dipole Design
- 1,250 - 1,850 MHz
- 2.05 dBi Omni Radiation Pattern
- Integrated GPS Notch Filter
- 8W Power Handling
- Integrated RF Co-Axial Gooseneck with Waterproof Heatshrink Seal
- Rugged Flat Black Fiberglass Radome
- Black Chrome Non-Rotating TNC(m) RF Connector



Product Specifications

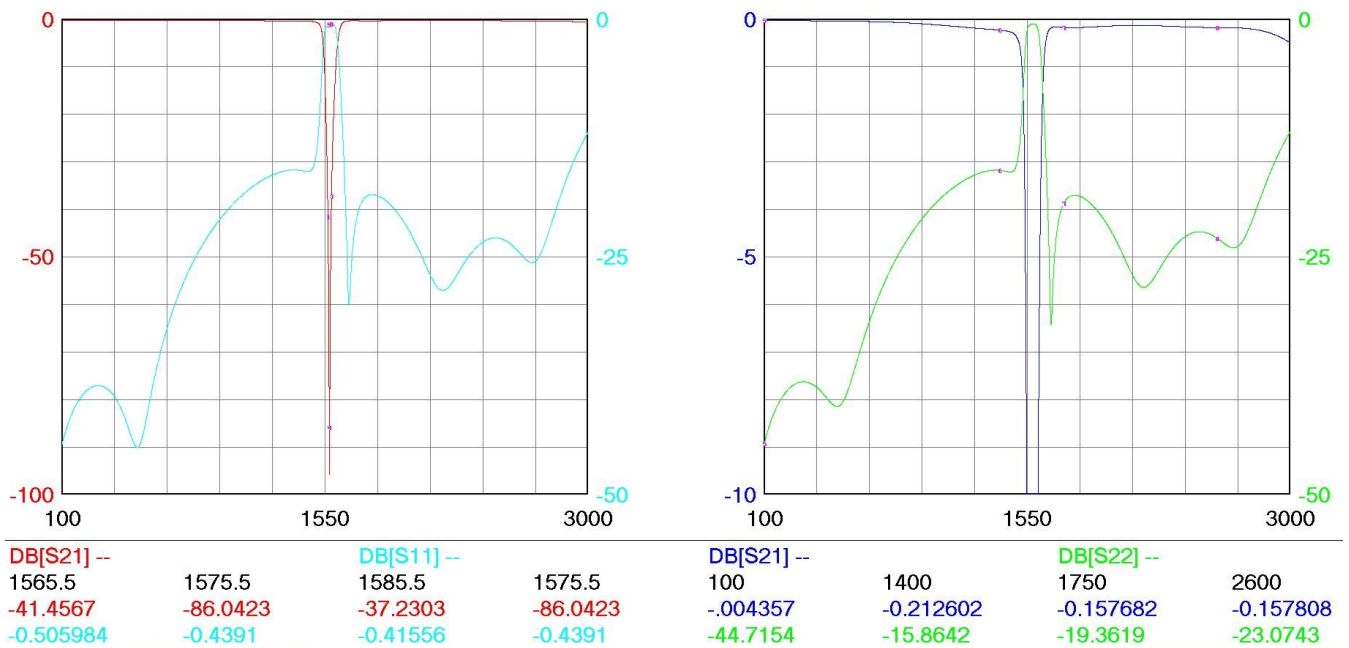
Parameter	Value	Units	Tolerance
Frequency Band	L		
Impedance	50		
Minimum Frequency	1.25 / 1,250	GHz / MHz	
Maximum Frequency	1.85 / 1,850	GHz / MHz	
Frequency Bandwidth	0.6 / 600	GHz / MHz	
Maximum VSWR	2:1	Ratio	
Maximum Gain	2.05	dBi	
Polarization	Vertical		
Color	Black		
Maximum RF Input Power	8	Watts	
Horizontal AZ Beamwidth	360	Degrees	
Vertical EL Beamwidth	81	Degrees	
Spring Or Gooseneck	Gooseneck		
Spring	No		
Gooseneck	Yes		
Gooseneck Length	3.09 / 78.49	inches / mm	±0.09"
Gooseneck Diameter	0.384 / 9.754	inches / mm	+0.010" / -0.005"
Ground Plane Required	No		
RF Connector Type	TNC(m) Non-Rotating		
RF Connector Finish	Black Chrome		
Product Height	10.47 / 265.94	inches / mm	±.15"
Product Diameter	0.562 / 14.275	inches / mm	+.020" / -.000"

Parameter	Value	Units	Tolerance
Product Weight	2.40 / 68.04	oz / g	
Filter Specifications			
Parameter	Value	Units	Tolerance
Filter Type	3-Pole GPS Notch Filter (ceramic)		
FO	1575.42	MHz	
Filter Impedance	50	Ohms	
Rejection 1	-30 dBa min @ Fo $\pm$ 10 MHz		
Filter Operating Temp	-25 to +65	C	

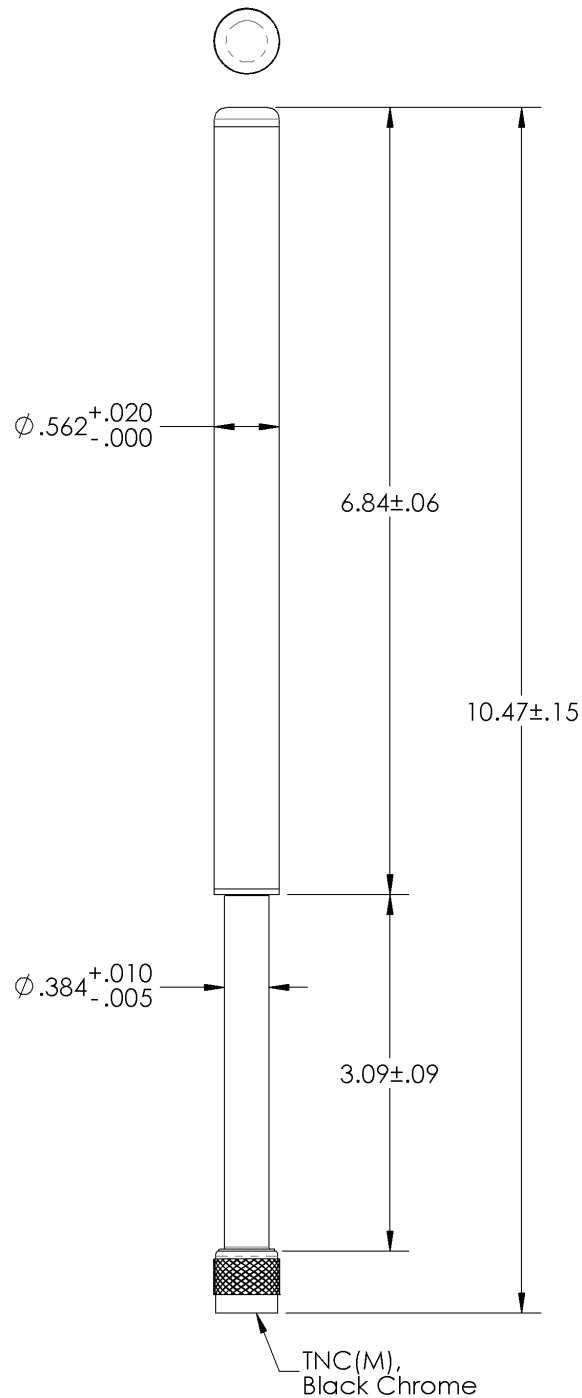


Elevation Pattern

Referenced to +5 dBi



GPS Notch Filter Plot



Engineering Drawing

All dimensions are in inches