

Overview

Southwest Antennas Part # 1001-071 is a dual band, half wave dipole omni antenna with a low band frequency range of 2.15 to 2.5 GHz and a peak gain of 2.1 dBi, and a high band frequency of 4.4 to 5.9 GHz and a peak gain of 2.5 dBi.

1001-071 features an integrated 3" RF Gooseneck with black chrome non-rotating 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 non-rotating TNC(m) RF connector can be easily secured or removed from equipment in the field by a single gloved hand, no tools required. The Black Chrome finish keeps the RF connector from reflecting light or being easily spotted in the field.

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 outdoor operations.

Features:

- Dual-Band Coverage
- 2.1 - 2.5 GHz & 4.4 - 5.9 GHz
- 50W Power Handling
- 2.15 to 2.5 dBi Gain
- Omni Radiation Pattern
- Integrated 3" RF Co-Axial Gooseneck Assembly
- Black Chrome Non-Rotating TNC(m) RF Connector



Antenna Specifications

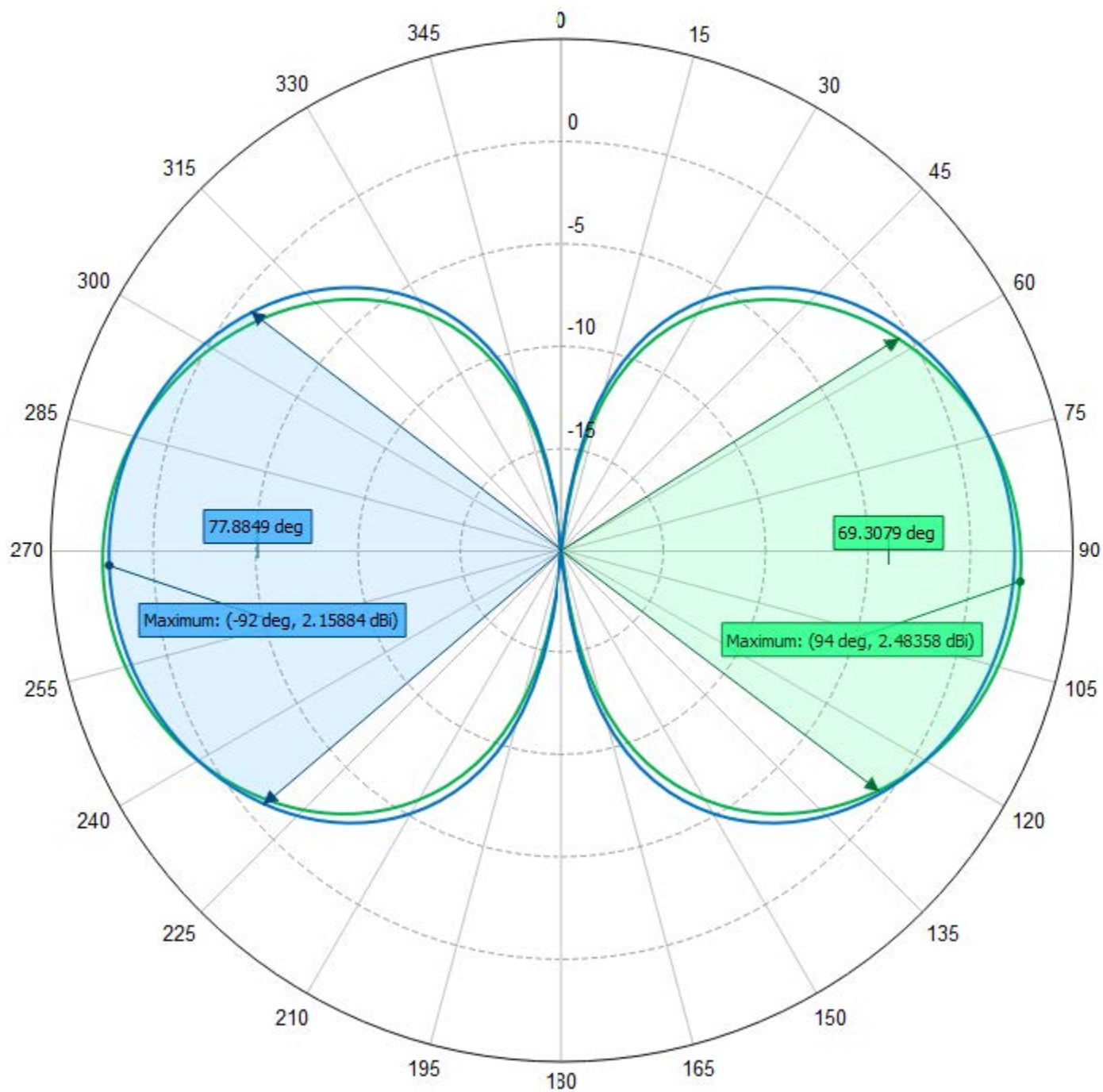
Parameter	Value	Units	Tolerance
Antenna Pattern	Omni Antenna		
Frequency Band	S & C		
Impedance	50	Ohms	
Frequency Range 1	2.1 – 2.5 2,100 – 2,500	GHz MHz	
Frequency Range 2	4.4 – 5.9 4,400 – 5,900	GHz MHz	
Maximum VSWR	2:1	Ratio	
Gain	2.5	dBi	2.15 dBi Low Band Max Gain
Polarization	Vertical		
Low Band Horizontal (AZ) Beamwidth	360	Degrees	
Low Band Vertical (EL) Beamwidth	78	Degrees	2.1 - 2.5 GHz
High Band Horizontal (AZ) Beamwidth	360	Degrees	
High Band Vertical (EL) Beamwidth	69	Degrees	4.4 - 5.9 GHz
Ground Plane Required	No		
Radome Material	Fiberglass		
Color	Flat Black		
Spring or Gooseneck	Gooseneck		
Gooseneck Length	3.000 / 76.200	inches / mm	±.06"
Gooseneck Diameter	0.350 / 8.890	inches / mm	±.002"



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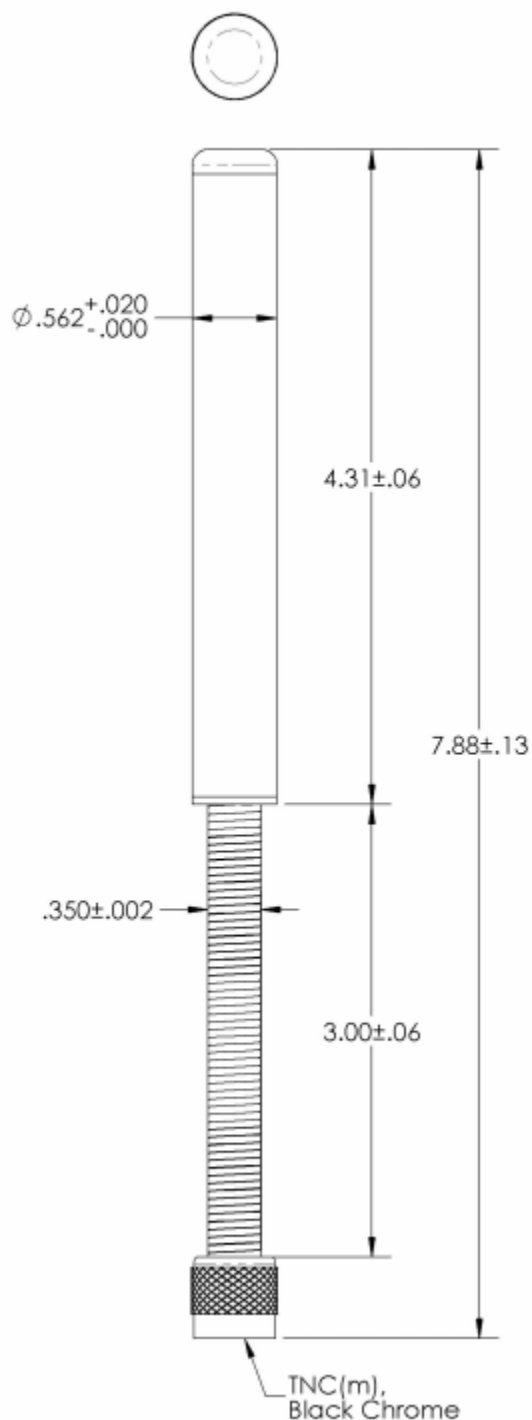
Dual-Band Omni Antenna, Half Wave Dipole, 2.1 - 2.5 / 4.4 - 5.9 GHz, 2.1 / 2.5 dBi, Integrated RF Coaxial Gooseneck

Parameter	Value	Units	Tolerance
Maximum Wind Velocity	124 / 200	mph / kph	
RF Connector Type	TNC(m) Non-Rotating		
RF Connector Finish	Black Chrome		
Product Height	7.880 / 200.152	inches / mm	±.13"
Product Diameter	0.562 / 14.275	inches / mm	+.020" / -.000"
Product Weight	2.20 / 62.37	oz / grams	



Elevation Pattern

Blue: S-Band, Green: C-Band



Engineering Drawing

All dimensions are in inches