

Overview

Southwest Antennas Part # 1001-104 is a dual-band omni antenna which features 2.1 - 2.5 GHz and 4.4 - 5.9 GHz frequency coverage with 2.1 dBi of peak gain in S-Band, and 2.5 dBi peak gain in C-Band. This product features a rugged black G10 fiberglass radome and a black chrome TNC(m) Non-Rotating RF connector.

Southwest Antennas' Ultra-Flex Omni Antenna is a rugged, small form factor dipole antenna 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

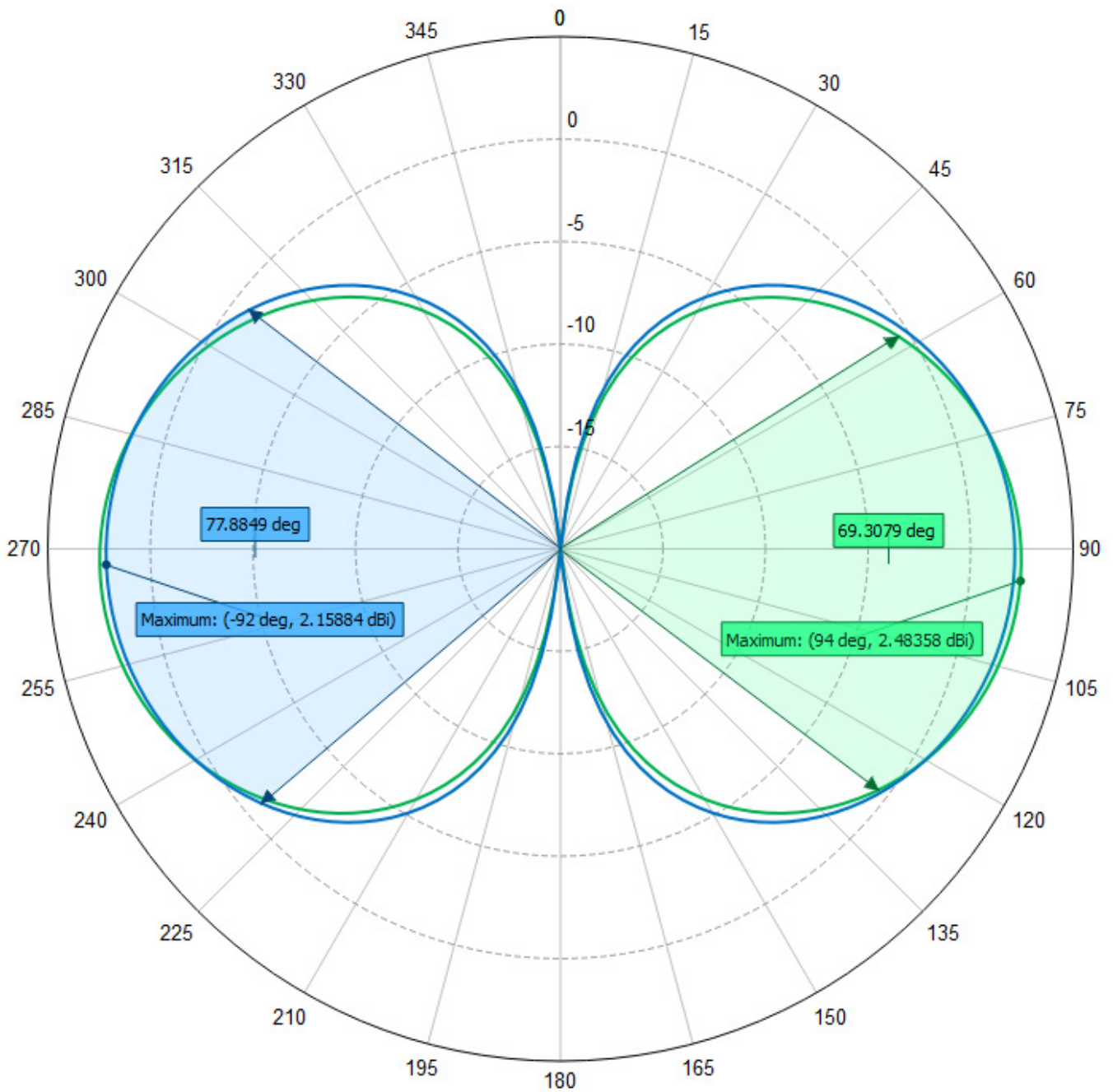
- Dual Band Coverage
- Half Wave Dipole
- 2.1 - 2.5 GHz & 4.4 - 5.9 GHz
- 50 Watt Power Handling
- 2.1 to 2.5 dBi Omni Radiation Pattern
- Rugged Black Fiberglass Radome
- Ultra-Flexible Sealed Spring Base
- Black Chrome TNC(m) RF Connector



Product Specifications

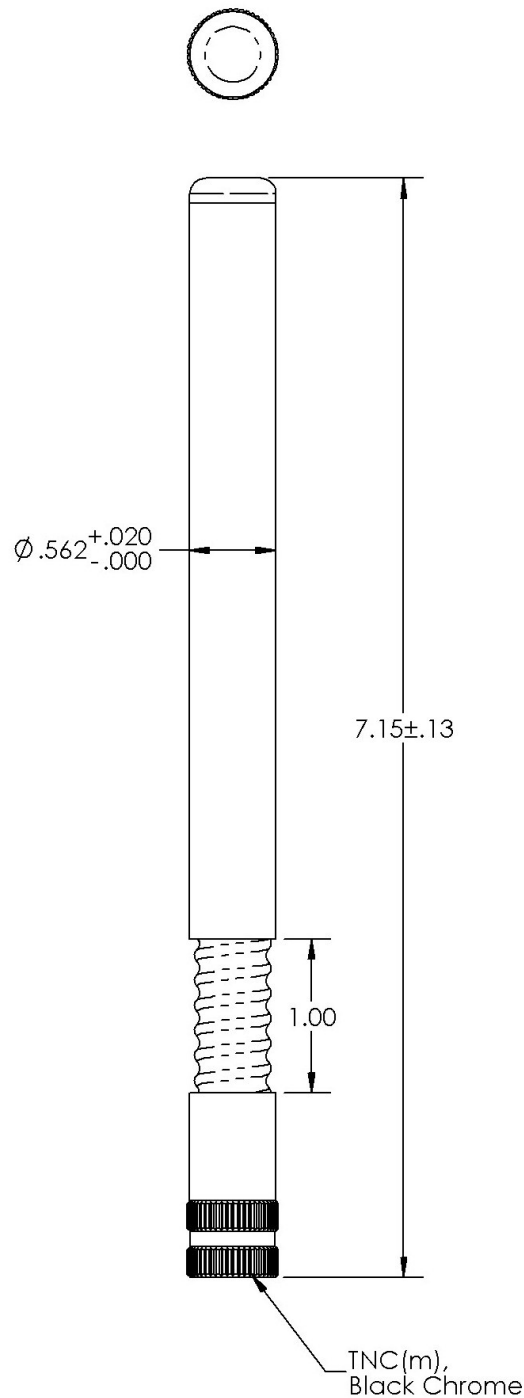
Parameter	Value	Units	Tolerance
Antenna Pattern	Omni Antenna		
Frequency Band	S & C		
Impedance	50.00		
Minimum Frequency	2.1 / 2,100	GHz / MHz	
Maximum Frequency	2.5 / 2,500	GHz / MHz	
Maximum VSWR	2:1	Ratio	
Maximum Gain	2.50	dBi C Band (2.1 dBi Max. in S-Band)	
Polarization	Vertical		
Color	Black		
Maximum RF Input Power	50	Watts	
Horizontal AZ Beamwidth	360	Degrees	
S Band Vertical AZ Beamwidth	78	Degrees	
C Band Vertical AZ Beamwidth	69	Degrees	
Spring Or Gooseneck	Spring		
Spring	Yes		
Spring Length	1		
Spring Diameter	0.5	inches	
Spring Bend	±90	Degrees	Maximum
Gooseneck	No		
Ground Plane Required	No		
Maximum Wind Velocity	161	kph	
RF Connector Type	TNC(m) Non-Rotating		
RF Connector Finish	Black Chrome		

Parameter	Value	Units	Tolerance
Operating Temperature Range	-40 to +85	C	
Product Height	7.15 / 181.61	inches / mm	±0.13"
Product Diameter	0.56 / 14.27	inches / mm	+0.02" / -.000"
Product Weight	2.0 / 56.7	oz / grams	



Elevation Pattern

Referenced to +5 dBi (Blue: Low Band, Green: High Band)



Engineering Drawing

All dimensions are in inches