

Overview

Part # 1001-171 features 902 - 928 MHz UHF ISM Band frequency coverage with 2.15 dBi of gain, a rugged black G10 fiberglass radome, and a black chrome TNC(m) non-rotating RF connector. The overall product height measures 9.87 inches.

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:

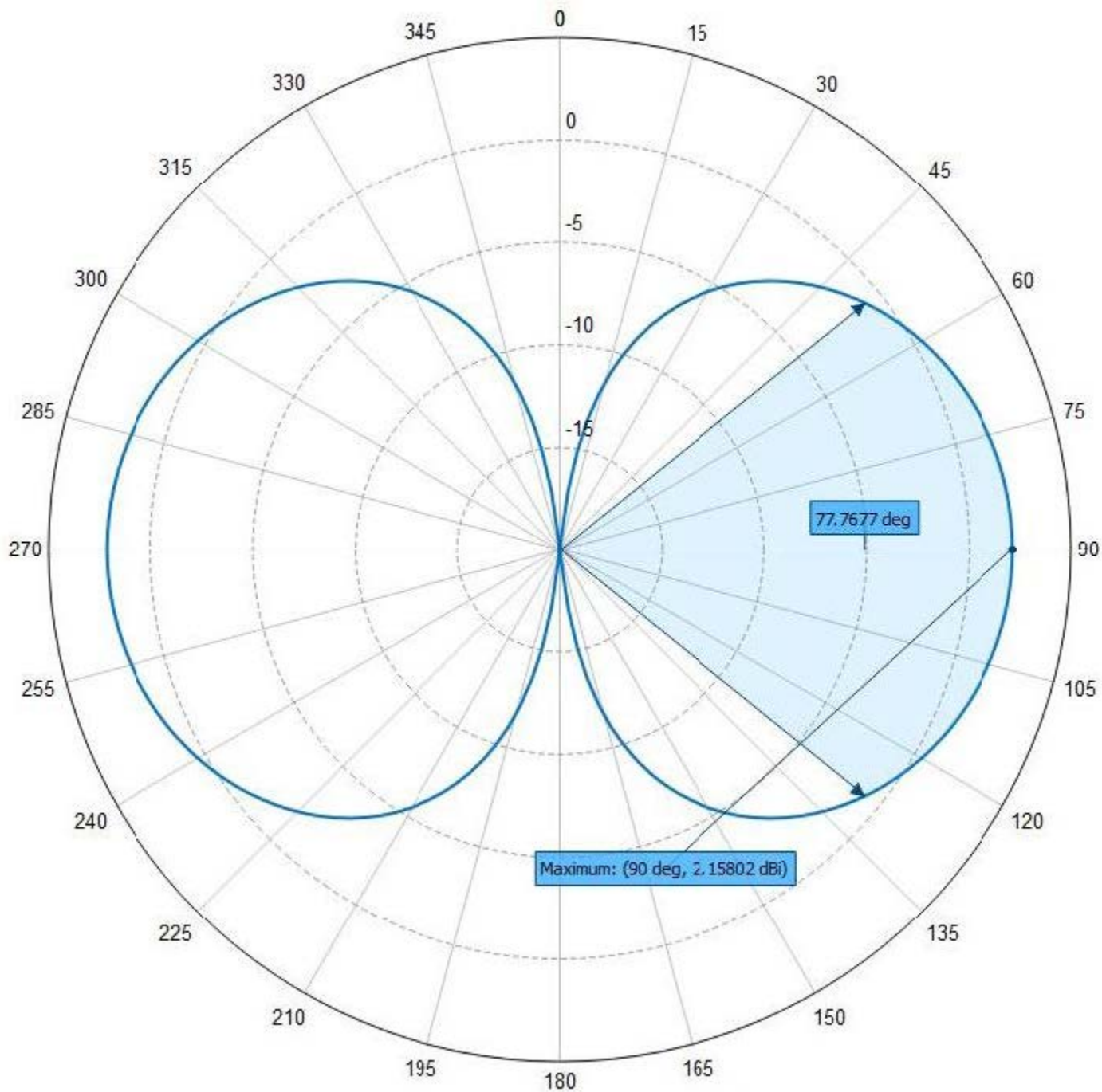
- Broad Band Coverage
- Half Wave Dipole Design
- 902 - 928 MHz
- 50W Power Handling
- 2.15 dBi Omni Radiation Pattern
- Integrated Sealed Ultra-Flex Spring Base
- Black Chrome Non-Rotating TNC(m) Connector



Antenna Specifications

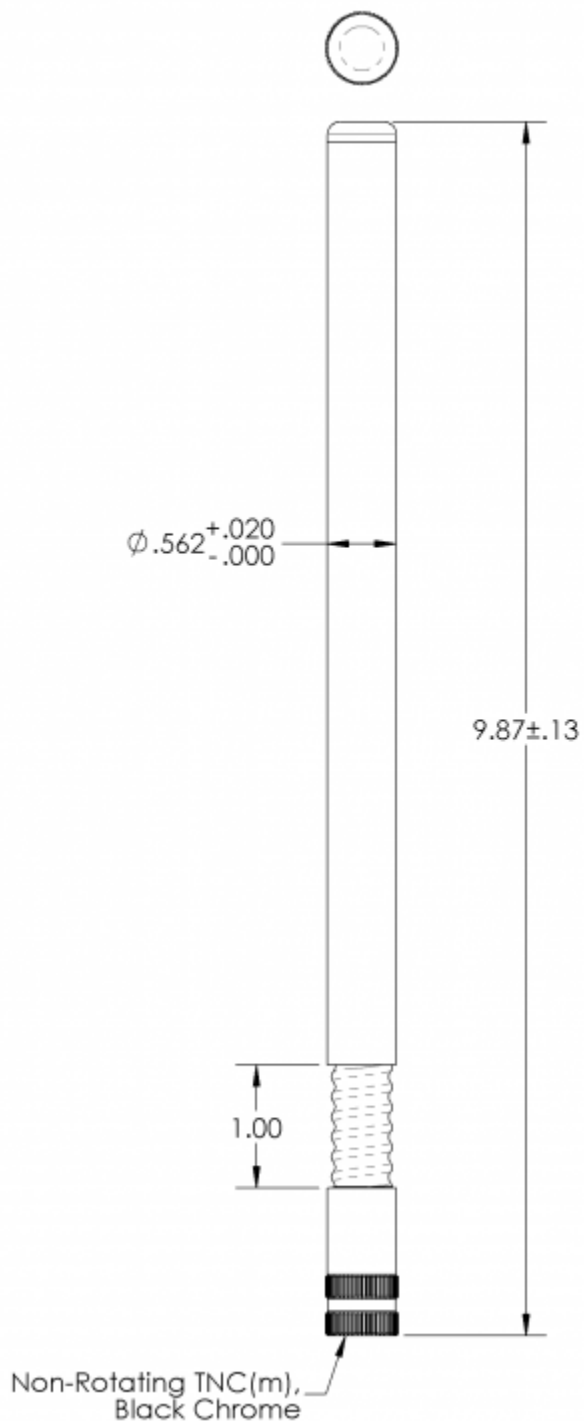
Parameter	Value	Units	Tolerance
Antenna Pattern	Omni Antenna		
Frequency Band	UHF		
Impedance	50	Ohms	
Minimum Frequency	0.902 / 902	GHz / MHz	
Maximum Frequency	0.928 / 928	GHz / MHz	
Frequency Bandwidth	0.026 / 26	GHz / MHz	
Maximum VSWR	<2:1	Ratio	Between Min. and Max. Frequencies
Maximum Gain	2.15	dBi	
Polarization	Vertical		
Maximum RF Input Power	50	Watts	
Horizontal (AZ) Beamwidth	360	Degrees	
Vertical (EL) Beamwidth	77	Degrees	
Ground Plane Required	No		
Color	Black		
Spring or Gooseneck	Spring		
Spring Length	1.00 / 25.40	inches / mm	
Spring Diameter	0.50 / 12.70	inches / mm	
Spring Bend	±90	Degrees	Maximum
RF Connector Type	TNC(m) Non-Rotating		
RF Connector Features	Black Chrome		
Product Height	9.87 / 250.70	inches / mm	±.13"

Parameter	Value	Units	Tolerance
Product Diameter	0.56 / 14.27	inches / mm	+.020" / -.000
Product Weight	2.2 / 63.5	oz / grams	Maximum



Elevation Pattern

Referenced to +5.0 dBi



Engineering Drawing

All dimensions are in inches