

Overview

Southwest Antennas Part # 1001-220 is an omni-directional half-wave dipole antenna that operates from 340 - 470 MHz and features 2 dBi of peak gain across the operational frequency range of the antenna.

The integrated sealed spring base allows the antenna to bend and flex with impacts and return to its original vertical operating position, helping to prevent damage to the mated RF connector and attached radio. The environmental seal allows for outdoor operation and prevents fouling of the spring by dirt, sand, mud, rain, or other debris.

The antenna's flat black finish and rotating black chrome Type-N(m) RF connector allow this antenna to be deployed for low visibility operations.

Features:

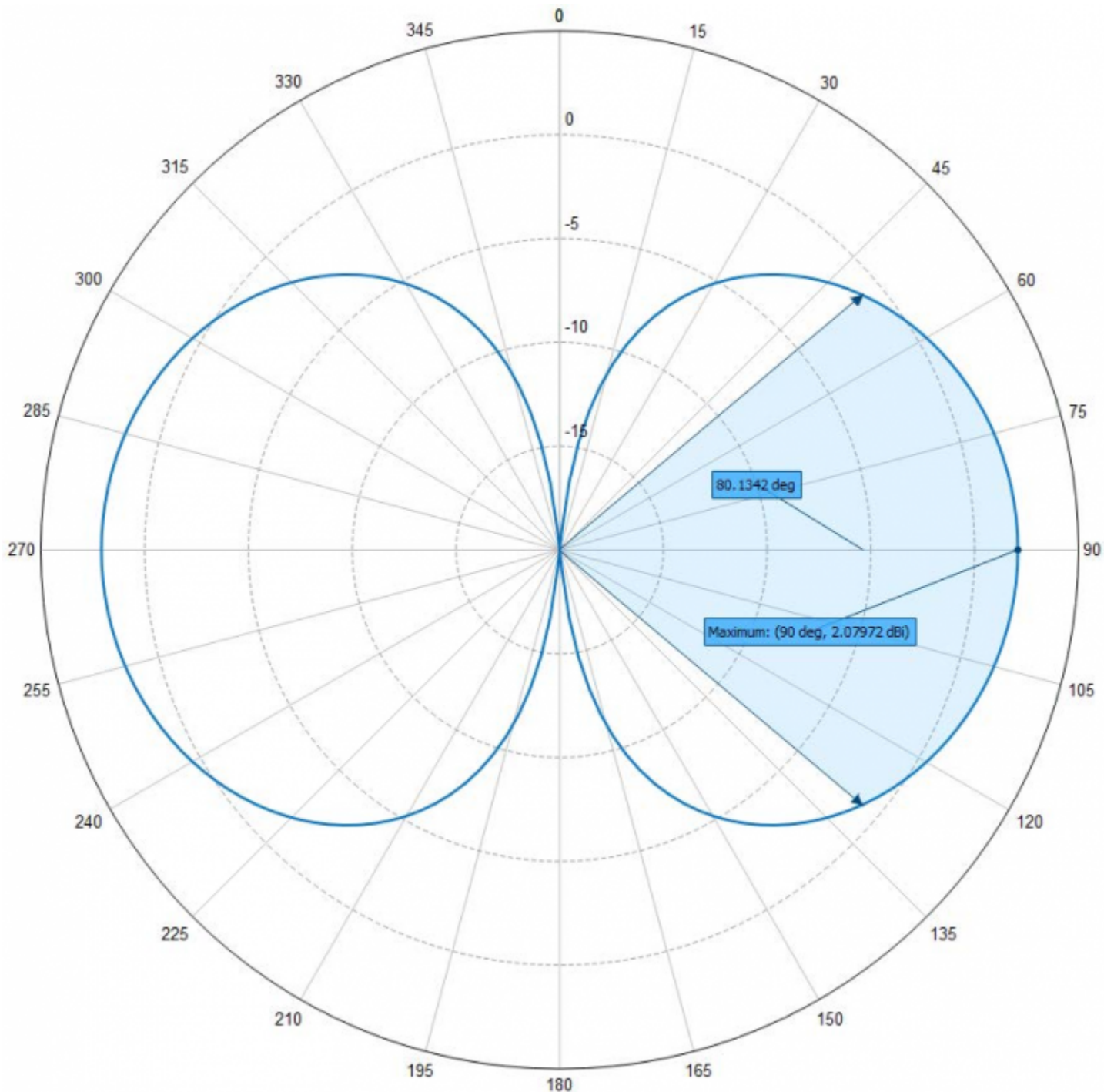
- Broad Band Coverage
- 340 - 470 MHz
- 2 dBi Omni Radiation Pattern
- Rugged Construction
- Low-Glare Black Radome
- Black Chrome Rotating Type-N(m) RF Connector
- Weatherproof Sealed Spring Base



Antenna Specifications

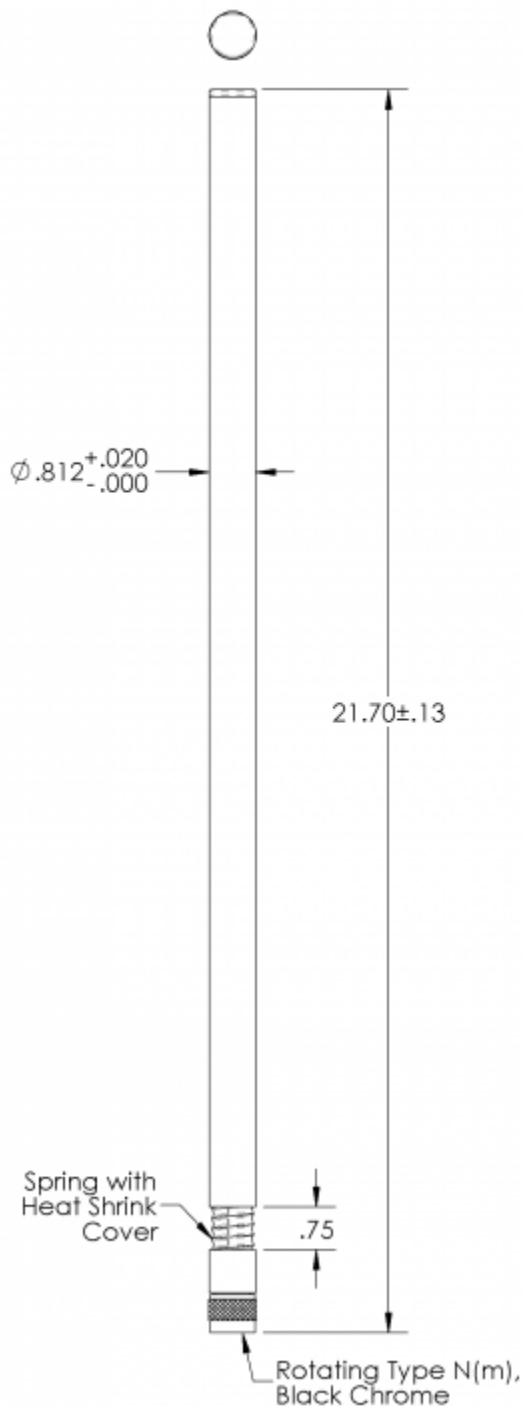
Parameter	Value	Units	Tolerance
Antenna Pattern	Omni Antenna		
Frequency Band	UHF		
Impedance	50	Ohms	
Minimum Frequency	0.34 / 340	GHz / MHz	
Maximum Frequency	0.47 / 470	GHz / MHz	
Frequency Bandwidth	0.13 / 130	GHz / MHz	
Maximum VSWR	2:1	Ratio	
Maximum Gain	2	dBi	
Polarization	Vertical		
Maximum RF Input Power	50	Watts	
Horizontal (AZ) Beamwidth	360	Degrees	
Vertical (EL) Beamwidth	80	Degrees	
Ground Plane Required	No		
Color	Black		
Spring or Gooseneck	Spring		
Spring Length	0.75 / 19.05	inches / mm	
Spring Diameter	0.75 / 19.05	inches / mm	
Spring Bend	±45	Degrees	Maximum (exceeding ±45 degrees may damage spring weather seal)
Maximum Wind Velocity	62 / 100	mph / kph	
RF Connector Type	Type-N(m)		
RF Connector Features	Black Chrome		

Parameter	Value	Units	Tolerance
Operating Temperature Range	-40 to +85	C	
Product Height	21.70 / 551.18	inches / mm	±.13"
Product Diameter	0.81 / 20.62	inches / mm	+.020" / -.000"
Product Weight	7.7 / 217.7	oz / grams	



Elevation Pattern

Referenced to +5 dBi



Engineering Drawing

All dimensions are in inches