Part # 1032-041
Omni Bifilar Antenna, LHCP, 4.4 - 5.9 GHz, 3.75 dBic, Ultra-Flex Sealed Spring Base

Overview

Southwest Antennas Part # 1032-041 is an omni-directional bifilar antenna with an operational frequency of 4.4 - 5.9 GHz. The antenna's bifilar design and left hand circular polarization (LHCP) make it ideal for communication with overhead aircraft or UAVs due to the lack of keyhole null in the antenna's radiation pattern.

Part # 1032-041 features Southwest Antenna's rugged Ultra-Flex sealed spring base, allowing the antenna to bend and flex upon impact, reducing the risk of damage to the mated RF connector. The sealed spring allows for operation in all environments, keeping the spring free of rain, dust, dirt, mud, sand, or other contaminants.

Features:

- Broad Band Coverage
- 4.4 - 5.9 GHz
- LHCP
- 3.75 dBic Omni Radiation Pattern
- 20W Power Handling
- 3T "3 Turn"
- Pitch: 46%
- Rugged G10 Radome
- Ultra-Flex Sealed Spring Base
- Black Chrome Type-N(m) Non-Rotating RF Connector

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Antenna Specifications

Parameter	Value	Units	Tolerance
Antenna Pattern	Omni Antenna		
Frequency Band	C		
Impedance	50	Ohms	
Minimum Frequency	4.4 / 4,400	GHz / MHz	
Maximum Frequency	5.9 / 5,900	GHz / MHz	
Frequency Bandwidth	1.5 / 1,500	GHz / MHz	
Maximum VSWR	2:1	Ratio	
Maximum Gain	3.75	dBic	
Polarization	LHCP		
Maximum RF Input Power	20	Watts	
Horizontal (AZ) Beamwidth	360	Degrees	
Vertical (EL) Beamwidth	163	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
Maximum Wind Velocity	100 / 161	mph / kph	
RF Connector Type	Type-N(m) Non-Rotating		
RF Connector Features	Black Chrome		

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Parameter	Value	Units	Tolerance
Operating Temperature Range	-40 to +85	C	
Product Height	10.19 / 258.83	inches / mm	±0.13"
Product Diameter	0.81 / 20.62	inches / mm	+0.02" / -.000"
Product Weight	1.6 / 45.4	oz / grams	

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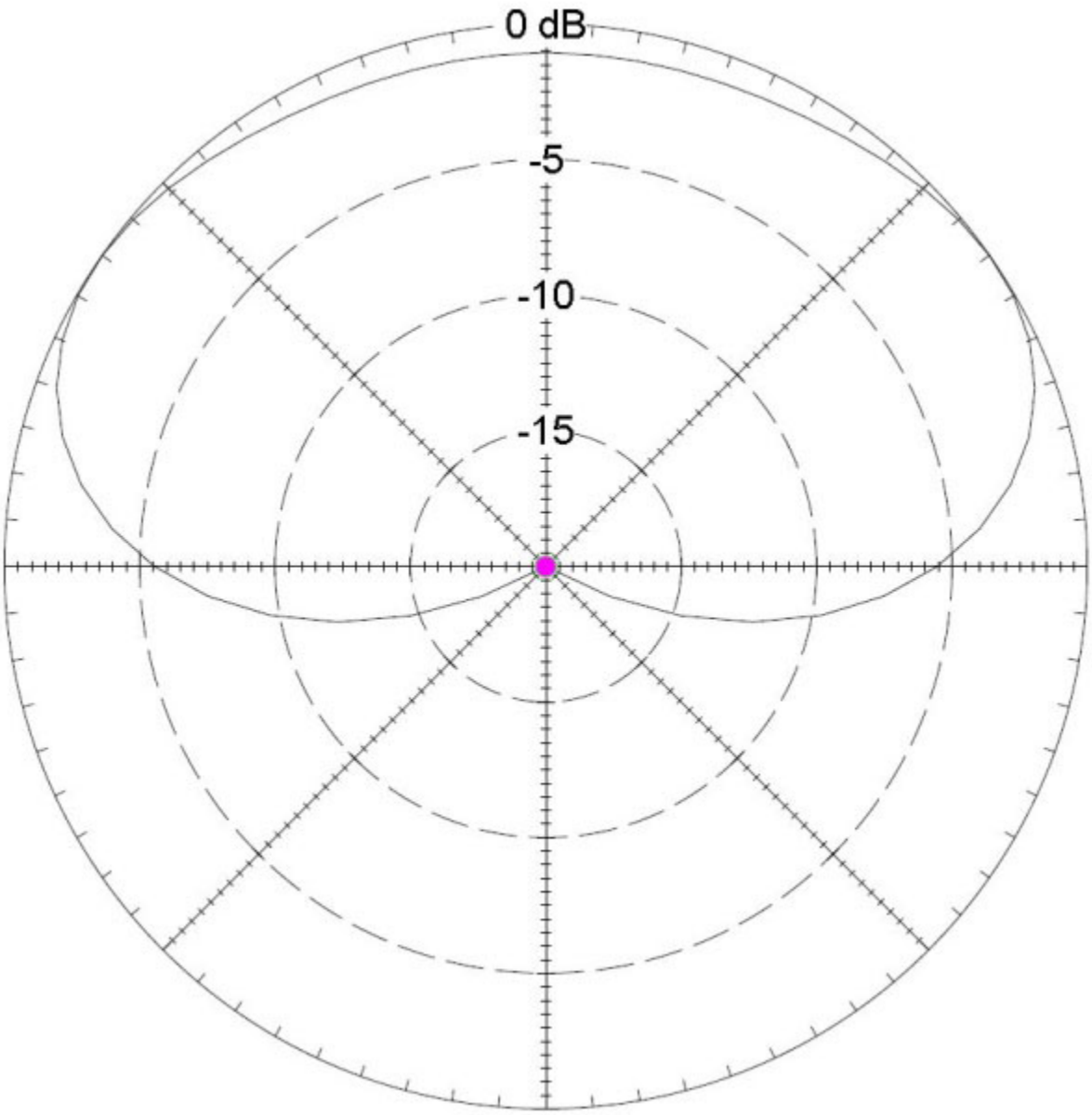

Elevation Pattern

Referenced to 4 dBic

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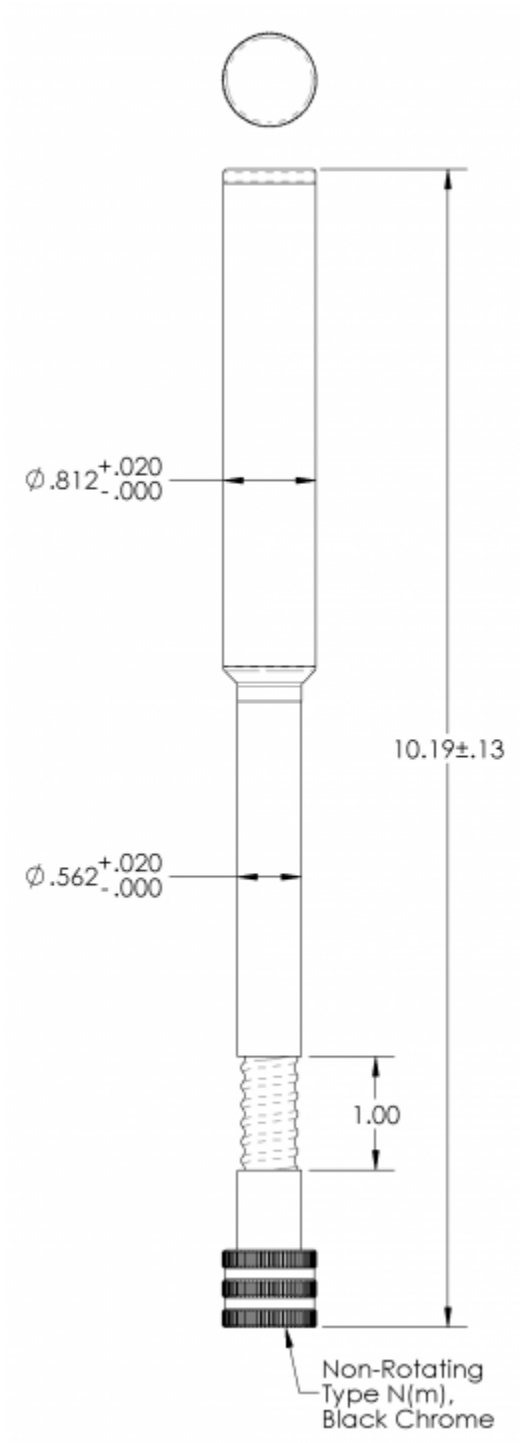

Engineering Drawing

All dimensions are in inches

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