

## Overview

Southwest Antennas Part # 1000-032 is a unique end-fed half wave dipole omni-directional antenna, designed to operate at a center frequency of 418 MHz ( $\pm 3$  MHz) and offers 3 dBi of peak gain at the horizon. The end-fed design allows the antenna to be fully ground plane independent. Rugged construction makes this antenna weatherproof and suitable for harsh environments and marine saltwater conditions.

## Features

- End-fed half wave dipole design
- Center tuned with integrated matching circuit to 418 MHz
- 3 dBi Gain
- Rugged weatherproof, outdoor design for marine environments
- Ground Plane Independent
- TNC(m) non-rotating black chrome RF connector
- Can be remotely located away from the radio by using long RF cable run

## Applications Include:

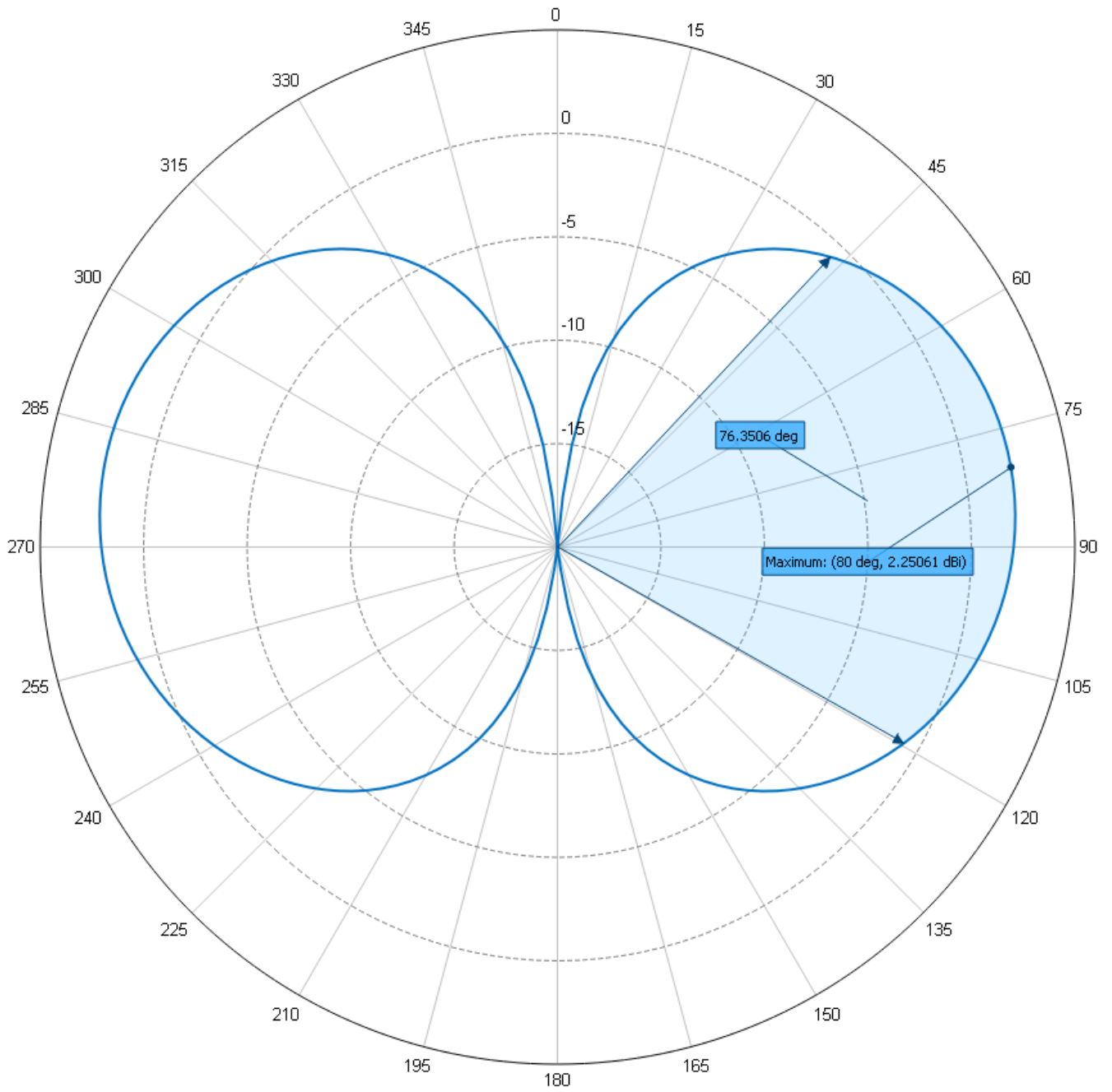
- Remote control systems
- Keyless entry systems
- Garage & gate openers
- Lighting control systems
- Security / call systems
- Home & industrial automation
- Wire elimination / wire-free alarm systems
- Maritime safety systems
- Man overboard receivers
- Wireless doorbell systems
- Wireless smoke detector receivers



### Product Specifications

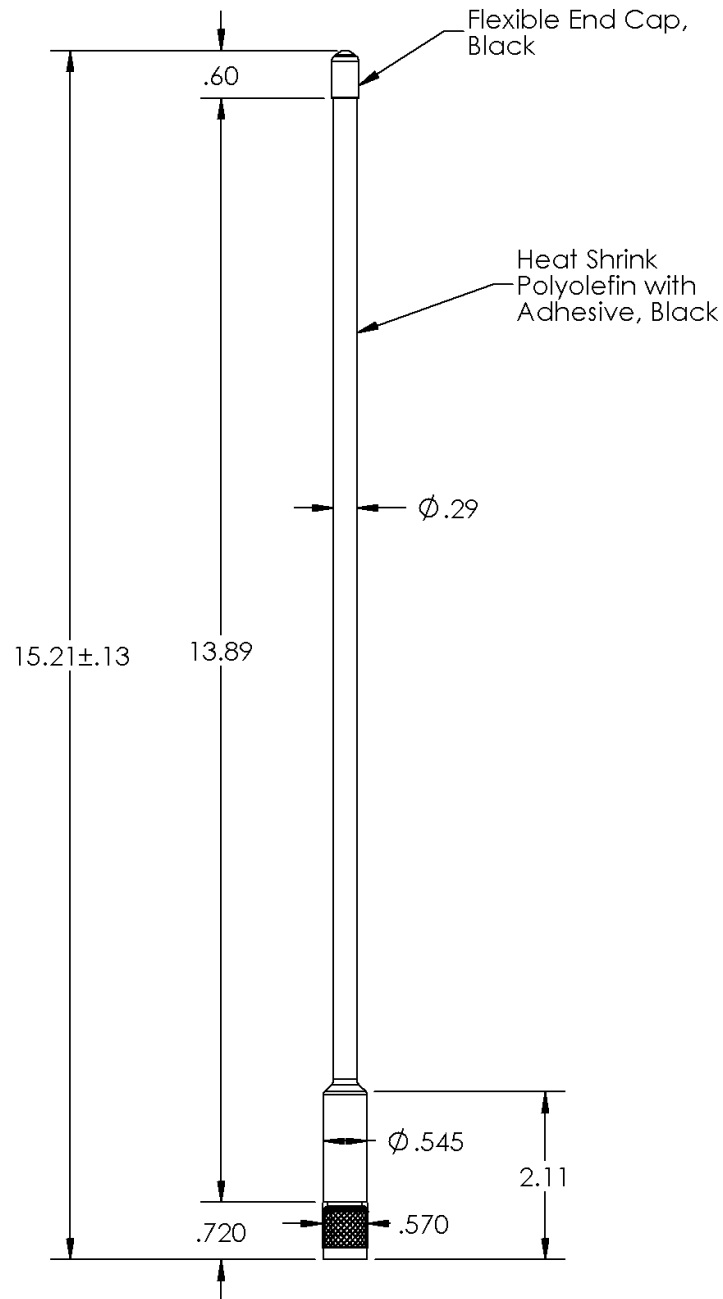
Parameter	Value	Units	Tolerance
Antenna Pattern	Omni		
Frequency Band	UHF		
Impedance	50		
Minimum Frequency	0.415 / 415	GHz / MHz	
Maximum Frequency	0.421 / 421	GHz / MHz	
Frequency Bandwidth	0.006 / 6	GHz / MHz	
Maximum VSWR	<1.5:1	Ratio	
Maximum Gain	3.00	dBi	
Polarization	Vertical		
Maximum RF Input Power	100	Watts	
Horizontal AZ Beamwidth	360	Degrees	
Vertical EL Beamwidth	77	Degrees	
Ground Plane Required	No		
Mount Style	RF Connector		
Immersion	Must survive harsh ocean conditions, solar radiation / UV rated and impervious to salt water sea spray. Submersible to 20-meters when RF connector is mated.		
RF Connector Type	TNC(m) Non-Rotating		
RF Connector Finish	Black Chrome		
Operating Temperature Range	-40 to +85	C	
Product Height	15.21 / 386.33	inches / mm	±.13"

Parameter	Value	Units	Tolerance
Product Diameter	.570 / 14.478	inches / mm	Maximum diameter of RF connector (0.29" diameter whip)
Product Weight	3.00 / 85.05	oz / g	



**Elevation Pattern**

Referenced to +5 dBi



**Engineering Drawing**

All dimensions are in inches