

Overview

Southwest Antennas Part # 1009-037 is a 2X2 sector antenna for multi-port MIMO / MANET radio systems that covers the 4.4 - 5.0 GHz frequency band, with a minimum gain of 12.4 dBi. Two discrete antenna elements each with their own RF connector offer 45 degree slant left and 45 degree slant right polarization, providing for increased transmit and receive polarization diversity.

The included pipe mounting bracket allows the antenna to be connected to poles with an outside diameter of 1 - 2 inches, and the antenna to be tilted from horizontal down to -15 degrees.

Features

- 2 Input 2X2 Sector Antenna with 120° Azimuth Beamwidth
- Dual Polarized Design:
 - 1x 45° Slant Left
 - 1x 45° Slant Right
- 4.4 - 5.0 GHz
- 12.4 dBi Minimum Gain
- 50W Power Handling
- White UV Stable Kydex Radome
- 0 to -15° Adjustable Elevation Angle Downtilt, with 2.5° Increments
- Includes Pole Mounting Kit for 1" - 2" Pole Diameter
- 2x Type-N(f) RF Connectors

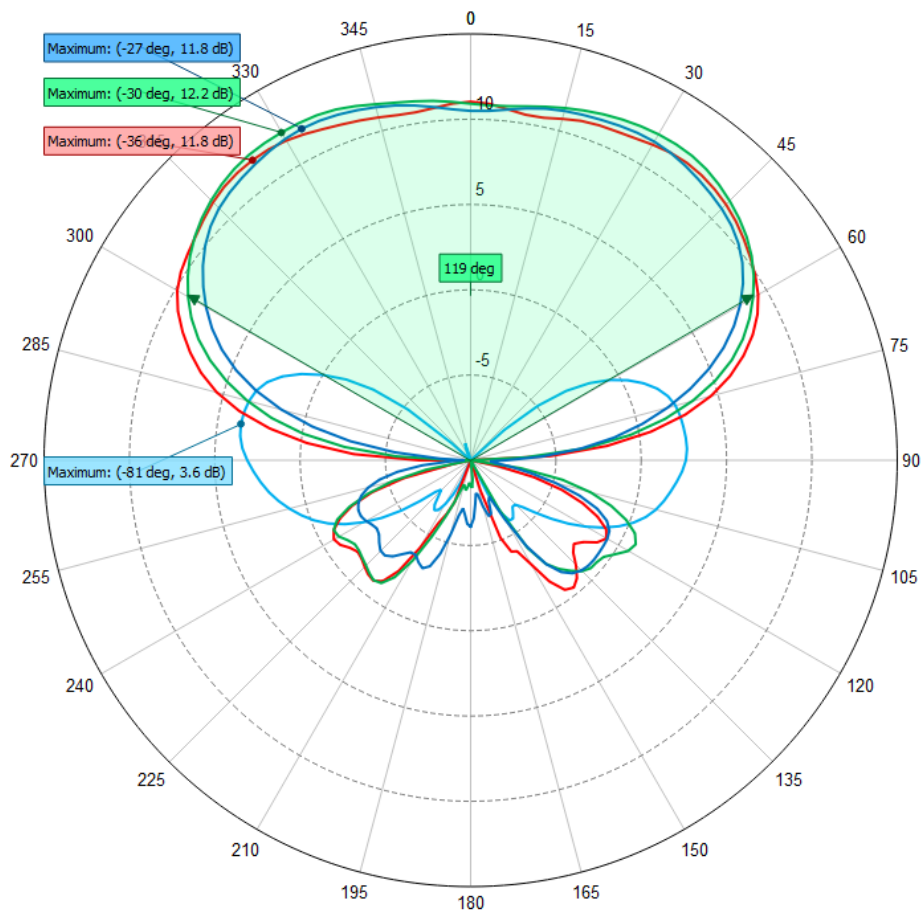
Applications:

- 2X2 MIMO / MANET Radio Networks
- Infrastructure Base Stations
- Planned City Wide / Urban Area Mesh Radio Networks
- Rapid Deploy Networks for Event Management and Security
- Point-to-Point Back Haul MIMO Radio Links
- Emergency Management & Public Safety



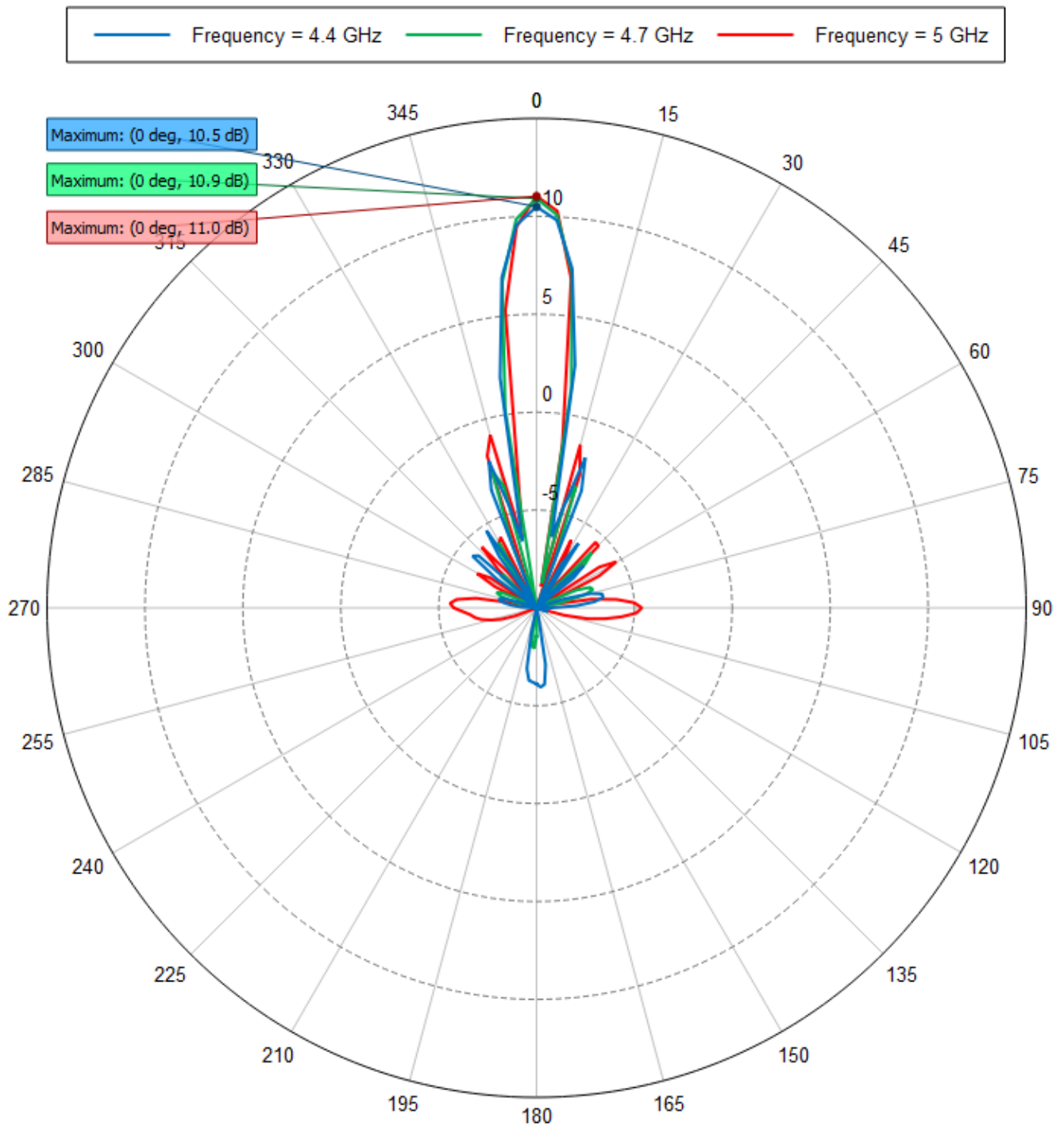
Product Specifications

Parameter	Value	Units	Tolerance
Antenna Pattern	Directional Antenna		
Frequency Band	C		
Impedance	50		
Minimum Frequency	4.4 / 4,400	GHz / MHz	
Maximum Frequency	5.0 / 5,000	GHz / MHz	
Frequency Bandwidth	0.6 / 600	GHz / MHz	
Maximum Gain	12.40	dBi	
Polarization	Slant R/L		
Color	White		
Maximum RF Input Power	50	Watts	Per Port
Horizontal AZ Beamwidth	110 - 128	Degrees	
Vertical EL Beamwidth	9 - 11	Degrees	
Radome Material	UV Stable Kydex		
Ground Plane Required	No		
Mount Style	1" to 2" Pole Mounting Kit with 0 to -15° Elevation Downtilt Adjustment		
Maximum Wind Velocity	161	kph	
RF Connector Type	Type-N(f)		
Operating Temperature Range	-40 to +140	F	-40 to +60 C
Product Length	16.5 / 419.1	inches / mm	
Product Width	7.00 / 177.80	inches / mm	
Product Height	4.0 / 101.6	inches / mm	
Product Weight	4.28 / 1.94	lbs / kg	Including Mounting Hardware



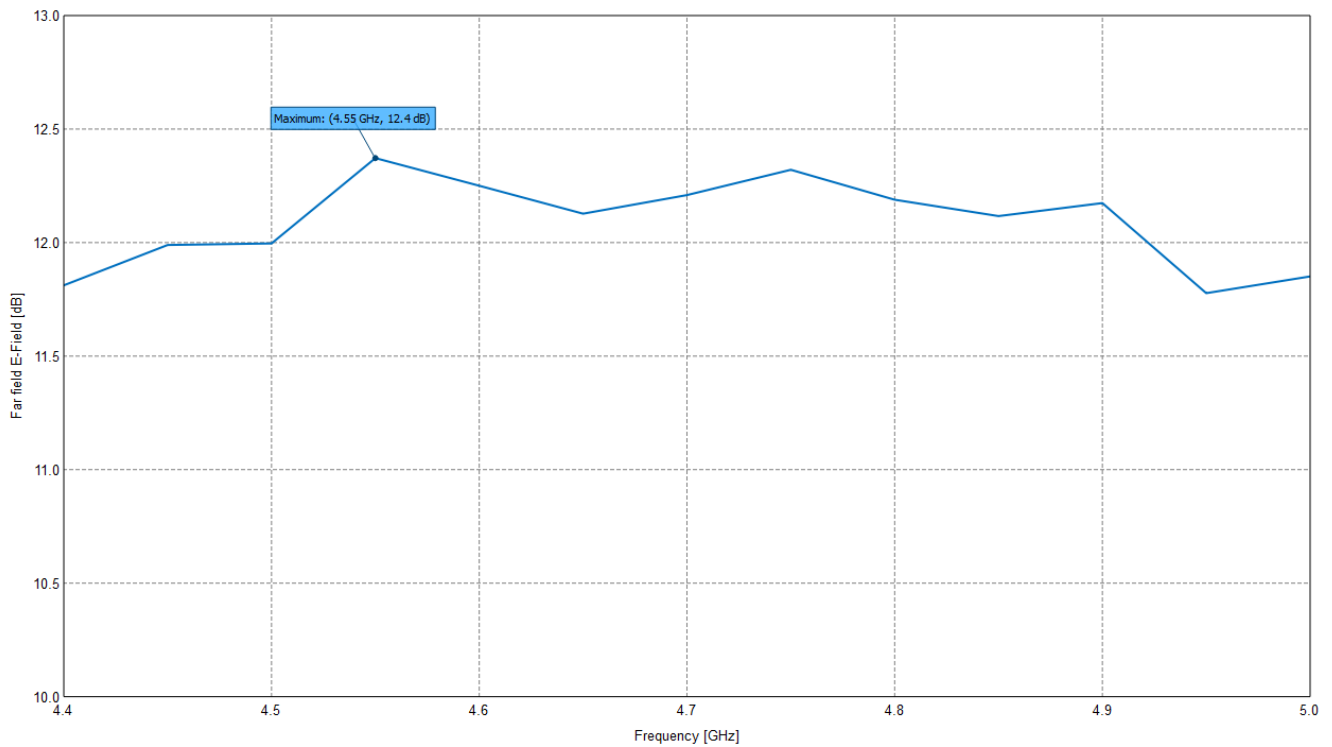
Azimuth Pattern

Referenced to +15 dBi

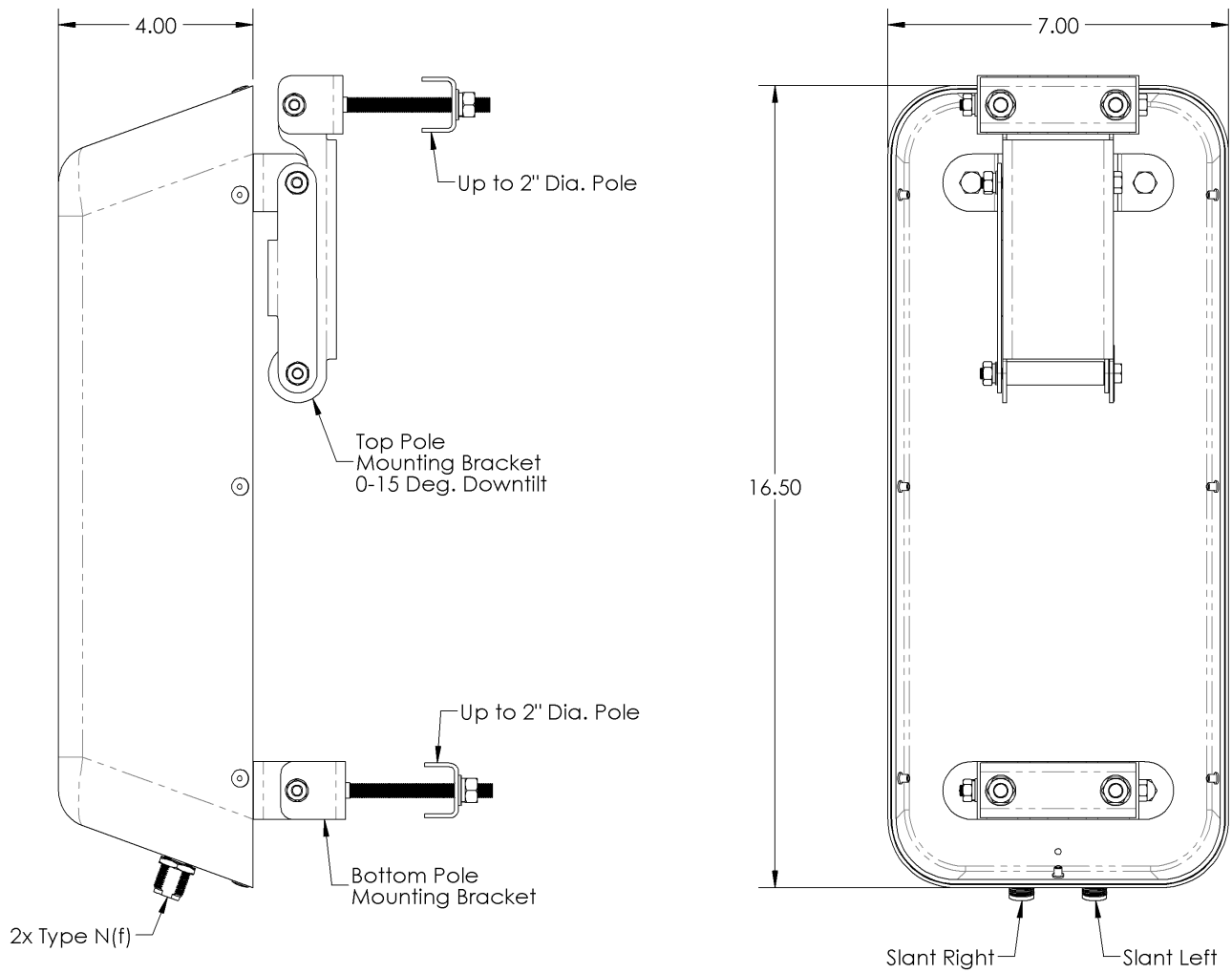


Elevation Pattern

Referenced to +15 dBi



Gain vs. Frequency Plot



Engineering Drawing

All dimensions are in inches