
PRELIMINARY

Overview

Southwest Antennas Part # 1009-078 is a 4x4 MIMO 90° sector antenna designed specifically for the 3.55 - 3.7 GHz Citizens Broadband Radio Service (CBRS) band. This antenna offers 14 dBi peak gain.

The rugged construction and UV stable housing makes this antenna suitable for use outdoors in harsh environments, such as equipment towers and masts exposed to the elements. Elevation angle downtilt can be adjusted between 0 and -15 degrees with the included pole mounting kit.

Features:

- 4-Input 4x4 MIMO 90° Sector Antenna
- 3.55 - 3.7 GHz Citizens Broadband Radio Service (CBRS) Band Coverage
- Precise Sectorial Coverage
- Slant Polarized Design:
 - 2x 45° Slant Left
 - 2x 45° Slant Right
- 14 dBi Gain
- 50 W Power Handling
- White UV Stable Kydex Radome
- 0 to -15° Adjustable Elevation Angle Downtilt
- Includes Pole Mounting Kit for 1" - 2" Pole Diameter
- 2x Type-N(f) RF Connectors
- Optional Integrated RF Filters

Applications:

- 4x4 MIMO / MANET Radio Networks
- Infrastructure Base Stations
- Planned City Wide / Urban Area Mesh Radio Networks
- Rapid Deploy Networks for Event Management and
- Point-to-Point Back Haul MIMO Radio Links
- 4G or 5G Private Wireless Networks



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Antenna Specifications

Parameter	Value	Units	Tolerance
Antenna Pattern	Directional Antenna		
Frequency Band	CBRS		
Impedance	50	Ohms	
Minimum Frequency	3.55 / 3,550	GHz / MHz	
Maximum Frequency	3.7 / 3,700	GHz / MHz	
Frequency Bandwidth	0.15 / 150	GHz / MHz	
Maximum VSWR	<2:1		
Maximum Gain	14	dBi	
Polarization	Slant R/L		
Maximum RF Input Power	50	Watts	Per Port
Horizontal (AZ) Beamwidth	90	Degrees	
Vertical (EL) Beamwidth	8	Degrees	
Ground Plane Required	No		
Color	White UV Stable Kydex		
Mount Style	1" to 2" Pole Mounting Kit with 0 to -15° Elevation Downtilt Adjustment		
Maximum Wind Velocity	100 / 161	mph / kph	
RF Connector Type	Type-N(f)		
Operating Temperature Range	-40 to +60	C	
Product Length	36.00 / 914.40	inches / mm	
Product Width	10.00 / 254.00	inches / mm	
Product Height	3.50 / 88.90	inches / mm	

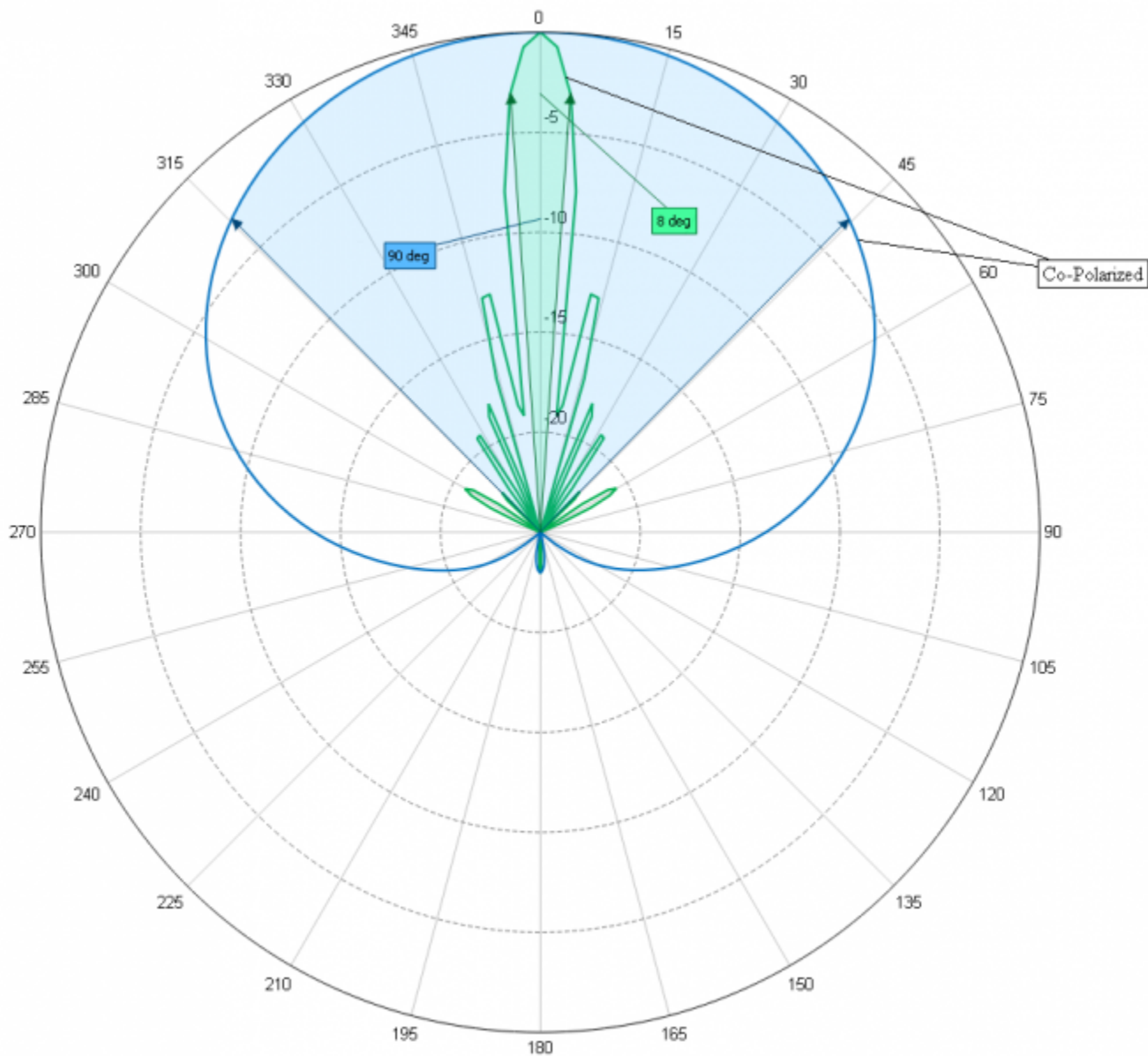


Part # 1009-078
4X4 MIMO 90° Sector Panel Antenna, Slant L/R Polarized, 3.55 - 3.7 GHz,
14 dBi Gain

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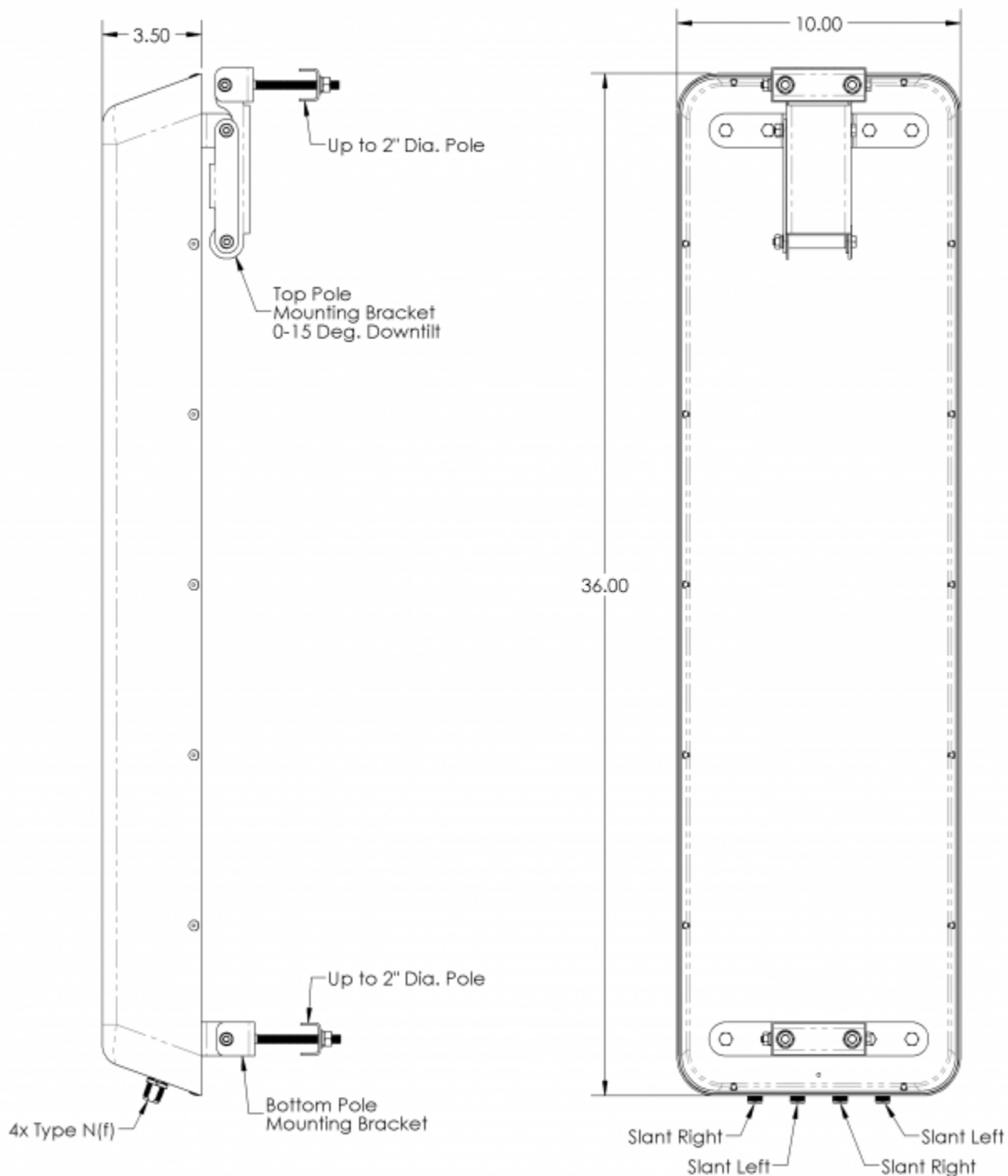
Parameter	Value	Units	Tolerance
Product Weight	10.6 / 4.8	lbs / kg	

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Azimuth (Blue) & Elevation (Green) Patterns

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Engineering Drawing

All dimensions are in inches