

Overview

Southwest Antennas Part # 1055-333 is a four port panel antenna designed for use with 4x4 MIMO radio systems and operates from 1.25 - 2.0 GHz. This antenna features four antenna elements, two slant 45° left and two slant 45° right for enhanced polarization and spatial diversity, and offers 63° of azimuth and elevation beamwidth per element. Multiple mounting options allow for positioning on poles, walls, windows, or other structures.

Features:

- Ultra Wide Band Design
- 1.25 - 2.0 GHz
- 4 Independent ports support MIMO / MANET radio systems:
 - 2x 45° Slant Right
 - 2x 45° Slant Left
- Enhanced Polarization & Spatial Diversity
- 9.7 dBi Gain (-10.9 dBi Cross-Polarized)
- 4x Type-N(f) RF Connectors

Markets and Applications Include:

- MIMO Radio Systems
- Temporary or Permanent Infrastructure
- Base Station Control Systems
- UAV and UGV Robotics Systems
- Supports a Wide Range of DoD / Military Bands
- International Broadcast Bands

Optional Mounting Kits:

- Part # 1070-039, 1.0" - 2.0" OD Pole & Tower Mounting Bracket Assembly
- Part # 1070-040, 2.0" - 4.0" OD Pole & Tower Mounting Bracket Assembly



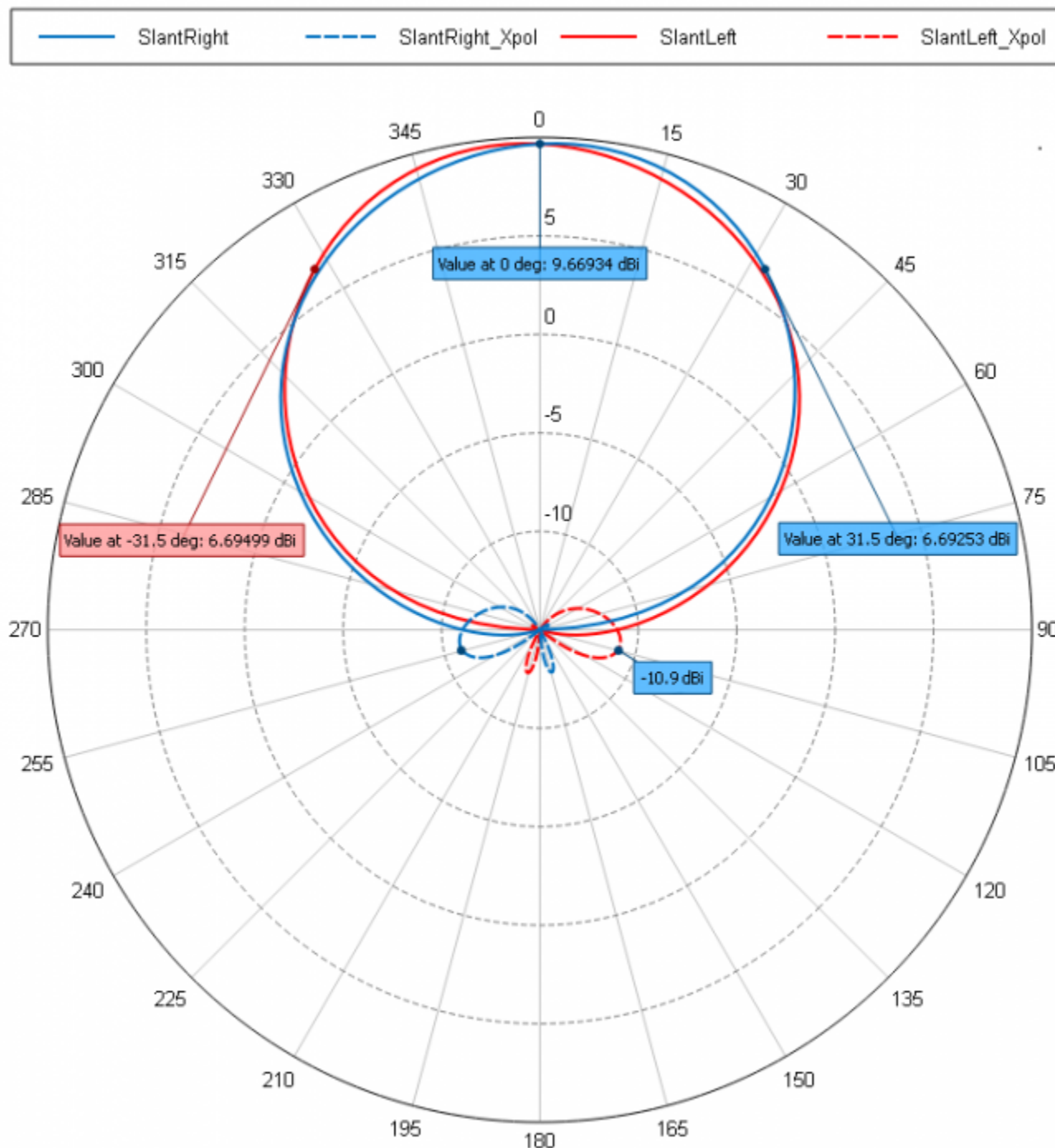
Antenna Specifications

Parameter	Value	Units	Tolerance
Antenna Pattern	Directional Antenna		
Frequency Band	L		
Impedance	50	Ohms	
Minimum Frequency	1.25 / 1,250	GHz / MHz	
Maximum Frequency	2.0 / 2,000	GHz / MHz	
Frequency Bandwidth	0.75 / 750	GHz / MHz	
Maximum VSWR	2.0:1	Ratio	
Maximum Gain	9.7	dBi	(-10.9 dBi cross-polarized)
Polarization	Slant L/R		
Maximum RF Input Power	50	Watts	Per Port
Horizontal (AZ) Beamwidth	63	Degrees	Per Element
Vertical (EL) Beamwidth	63	Degrees	Per Element
Ground Plane Required	No		
Radome Material	Kydex		
Color	White		
Mount Style	Suction Cup Mount, Pole Mount, or Wall Mount		
Mounting Holes or Studs	8x 8-32 UNC x .31" Blind Holes, and 8x 10-32 UNC Stud		
RF Connector Type	Type-N(f)		
Product Length	13.18 / 334.77	inches / mm	
Product Width	13.18 / 334.77	inches / mm	
Product Height	2.93 / 74.42	inches / mm	

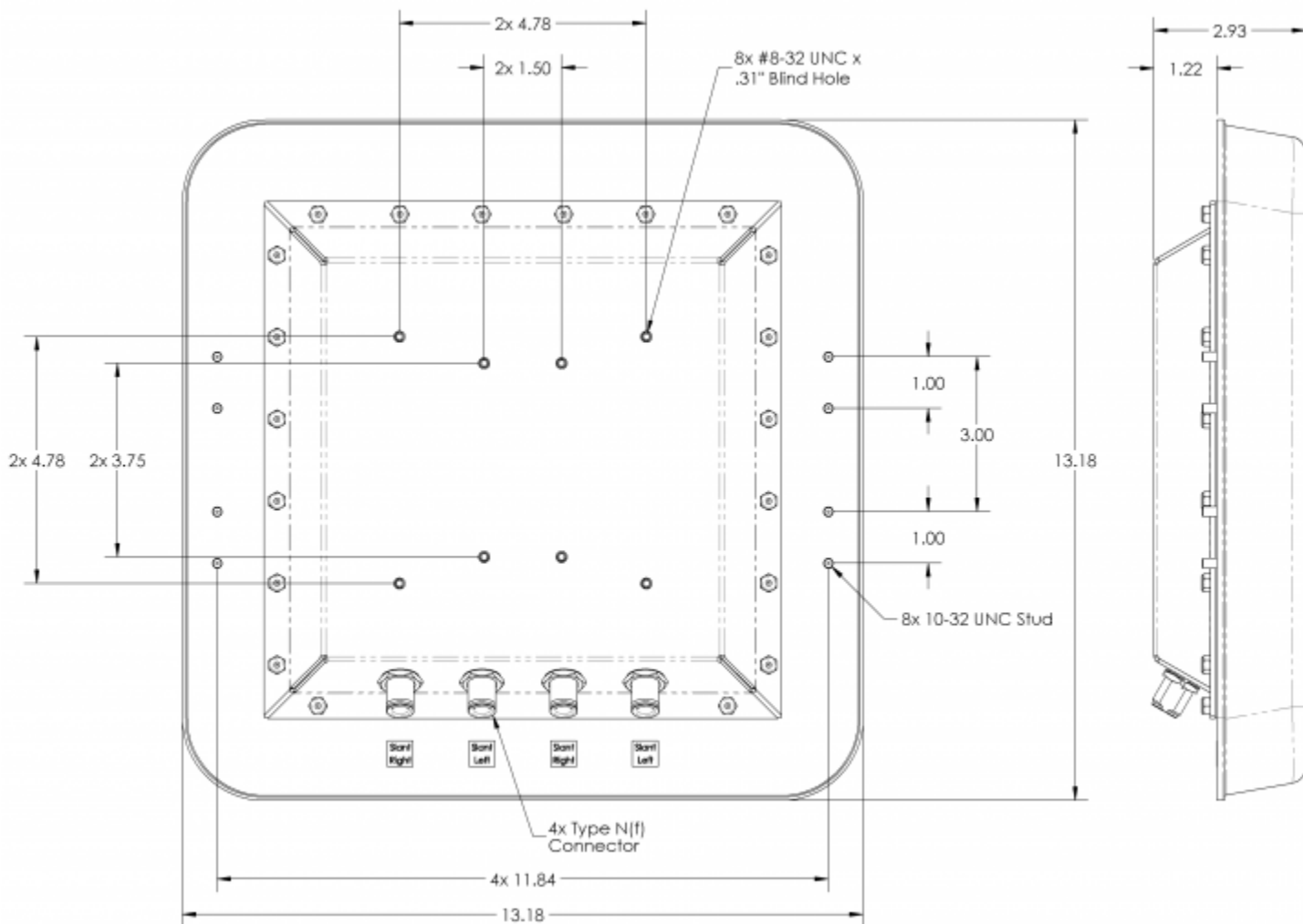


Part # 1055-333
4X4 MIMO 63° Sector Antenna, Slant L/R Polarized, 1.25 - 2.0 GHz, 9.7 dBi Gain

Parameter	Value	Units	Tolerance
Product Weight	3.0 / 1.4	lbs / kg	



Slant Left & Slant Right Horizontal and Vertical Patterns
Referenced to +10dBi



Engineering Drawing

All dimensions are in inches