

Overview

Southwest Antennas Part # 1055-378 is an omni-directional C-Band antenna designed specifically for fixed vehicle mount installation with multi-port MIMO and MANET tactical radio systems. The antenna's four RF ports and 45 degree slant left and slant right cross-polarized design provide enhanced polarization and spatial diversity for attached radio systems, allowing them to maximize data throughput and overall link budget.

The antenna features an integrated flange base for secure mounting for mobile vehicle applications. The mechanical design of this product has been specifically engineered and reinforced to withstand the higher wind speeds and low pressure environment while in flight.

Part # 1055-378 features an operational frequency range of 4.4 - 5.0 GHz, and 5.3 dBi of peak gain.

Features

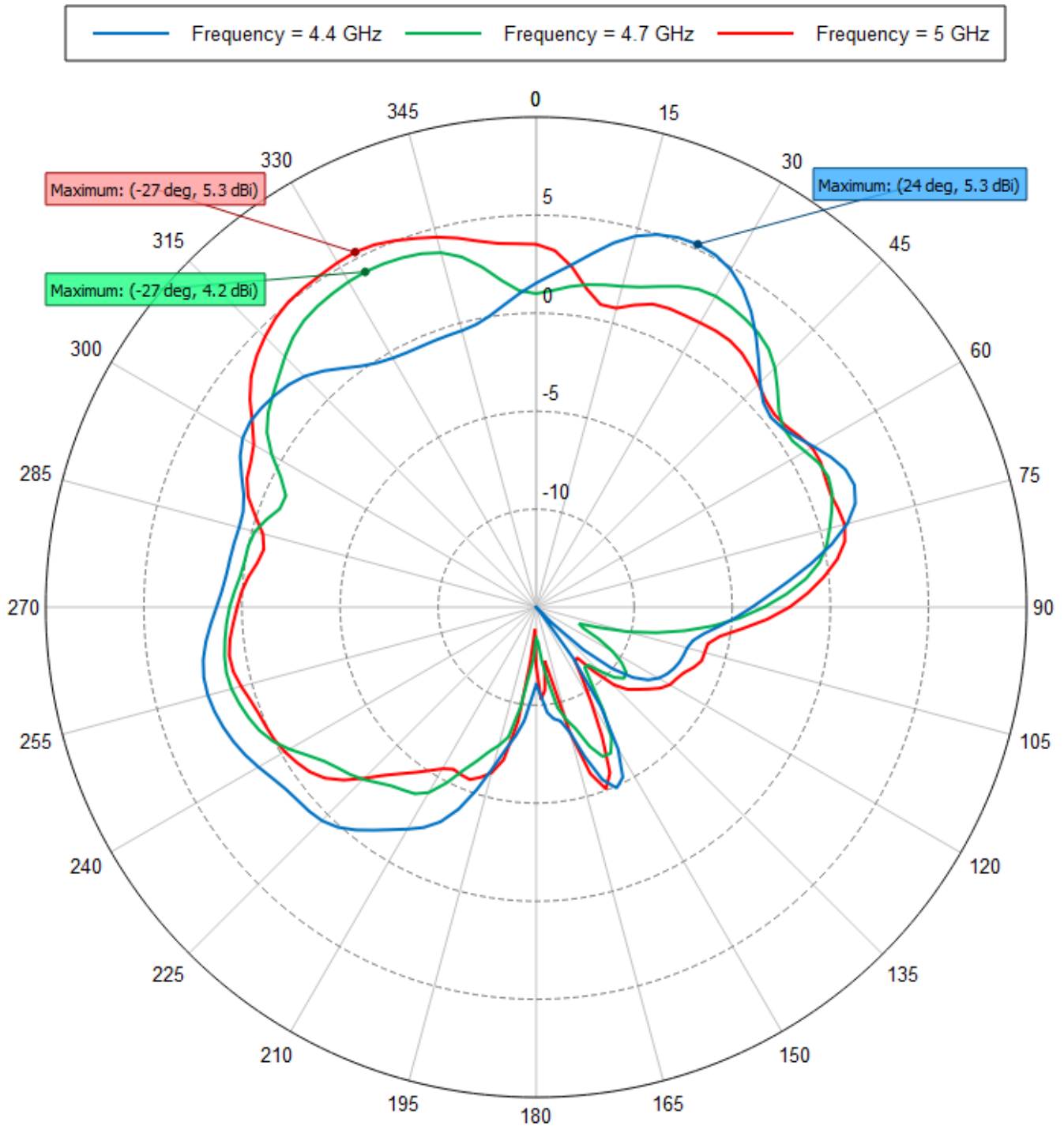
- 4-Input MIMO / MANET antenna for fixed vehicle mount installation
 - 2 ports, 45° slant right polarization
 - 2 ports, 45° slant left polarization
- 4.4 - 5.0 GHz
- 5.3 dBi peak gain
- White radome
- Flange base for secure vehicle mounting
- 4x Type-N(f) RF connectors



Product Specifications

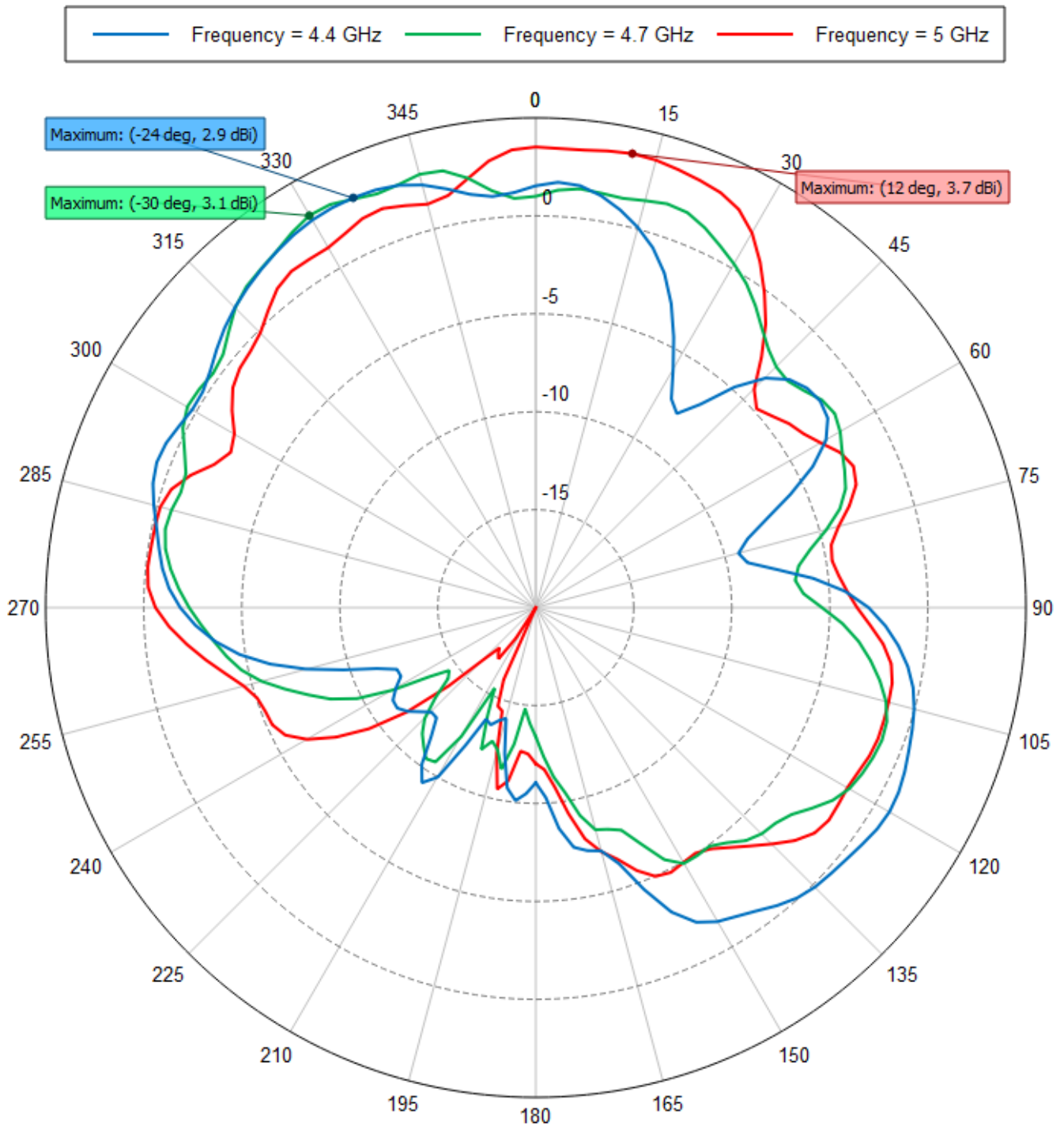
Parameter	Value	Units	Tolerance
Antenna Pattern	Omni Antenna		
Frequency Band	C		
Impedance	50		
Minimum Frequency	4.4 / 4,400	GHz / MHz	
Maximum Frequency	5.0 / 5,000	GHz / MHz	
Frequency Bandwidth	0.6 / 600	GHz / MHz	
Maximum VSWR	<2:1	Ratio	
Maximum Gain	5.30	dBi	
Polarization	Slant L/R		
Color	White		
Maximum RF Input Power	50	Watts	Per Port
Horizontal AZ Beamwidth	360	Degrees	
Vertical EL Beamwidth	100	Degrees	
Spring	No		
Gooseneck	No		
Ground Plane Required	No		
Mount Diameter	4.5 / 114.3	inches / mm	
Mount Style	Flange Mount		
Mounting Holes Or Studs	4x 0.201" diameter holes in flange		
Maximum Wind Velocity	374	MPH	
RF Connector Type	Type-N(f)		
IP Rating	IP67		

Parameter	Value	Units	Tolerance
Product Height	3.90 / 99.06	inches / mm	Not including connector height
Product Diameter	4.5 / 114.3	inches / mm	
Product Weight	1.10 / 0.50	lbs / kg	



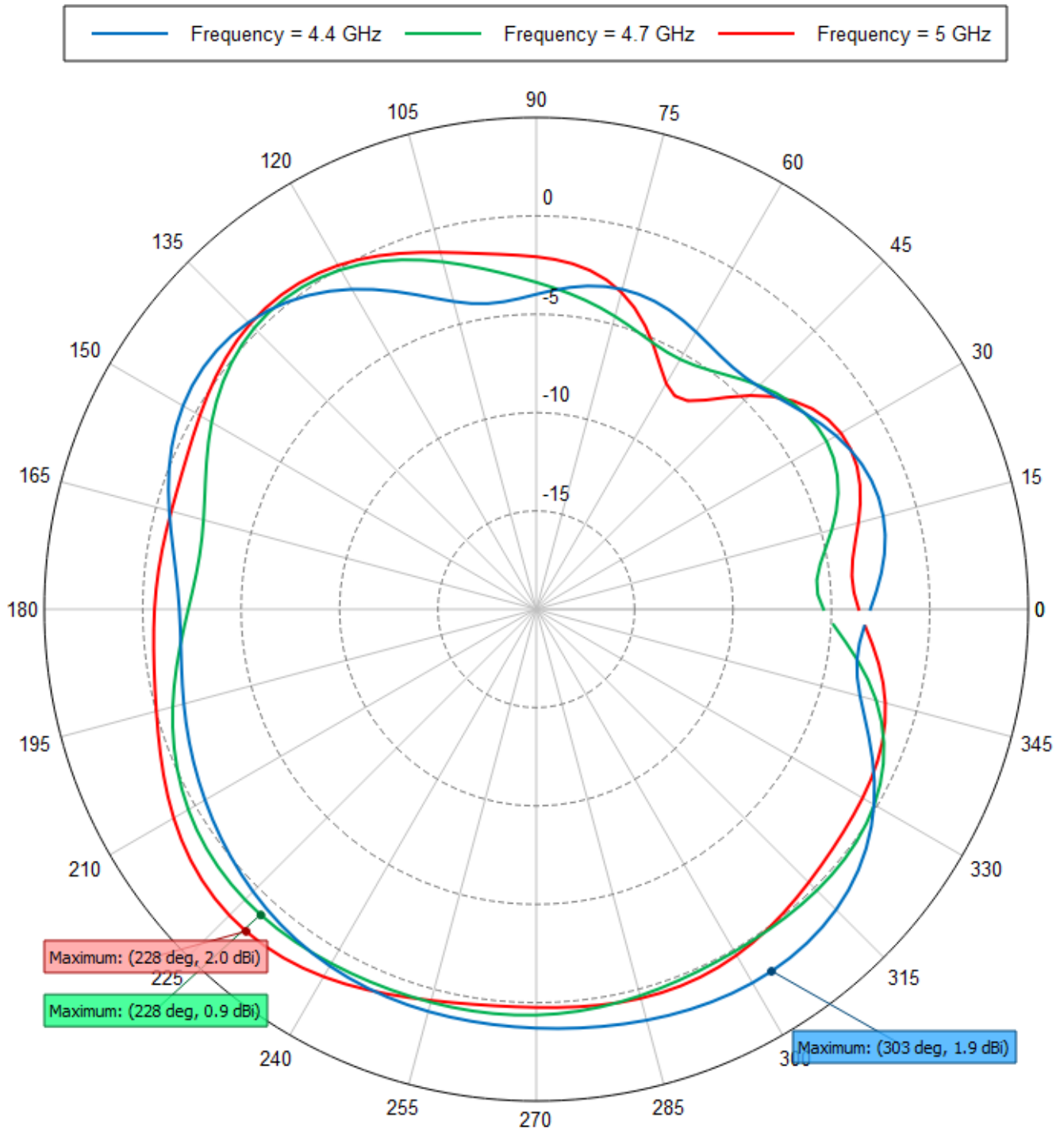
Elevation Pattern, Slant Left (Single Port Measurement)

Referenced to +10 dBi



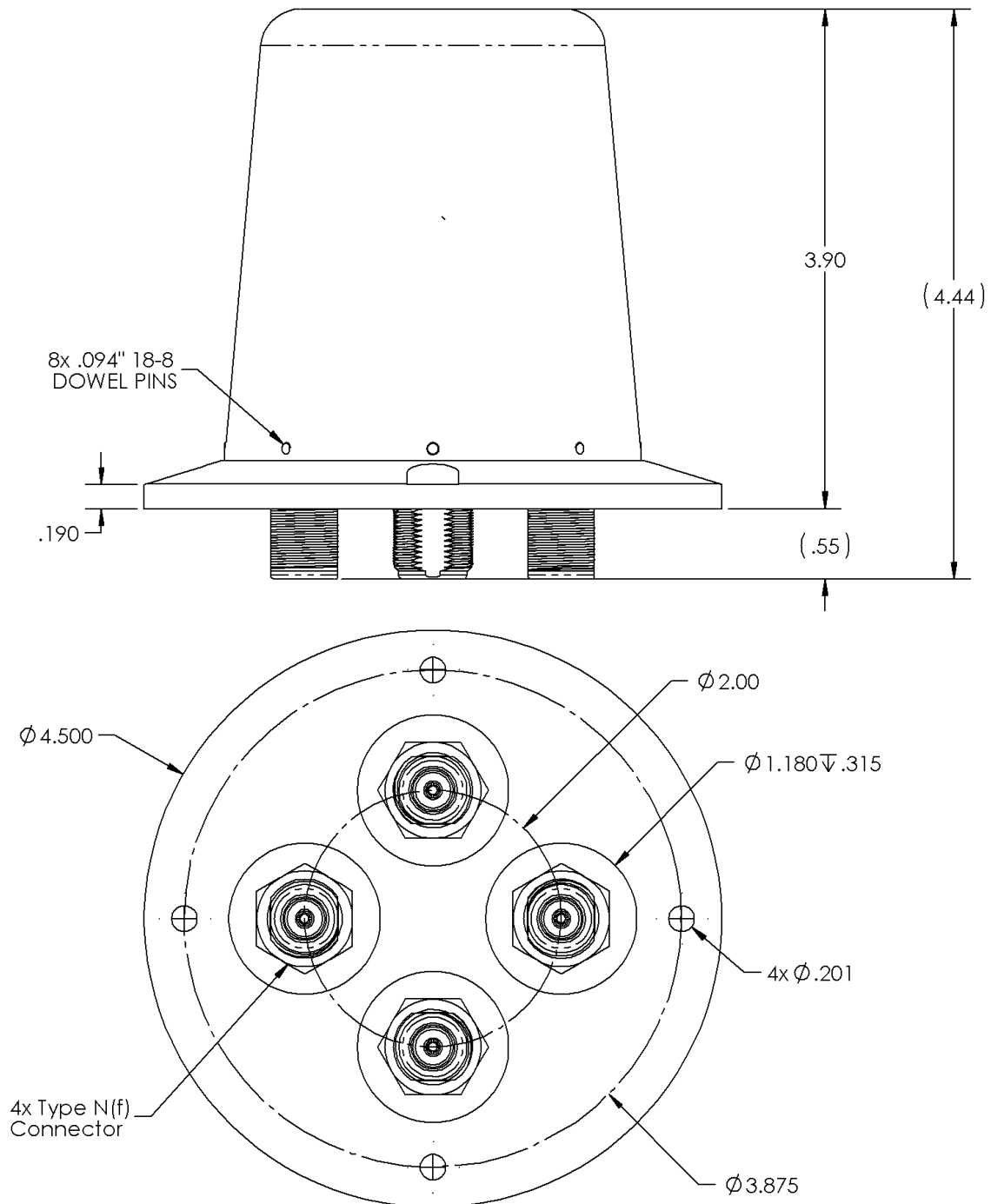
Elevation Pattern, Slant Right (Single Port Measurement)

Referenced to +10 dBi



Azimuth Pattern (Single Port Measurement)

Referenced to +10 dBi



Engineering Drawing

All dimensions are in inches