

Overview

Southwest Antennas Part # 1055-301 is an omni-directional S-Band antenna designed specifically for 2X2 MIMO and MANET radios with 2 ports. Covering an operation frequency range of 2.1 - 2.5 GHz with a peak gain of 2.9 dBi, the antenna features a strong magnetic mount base, allowing for easy mounting and removal from any magnetic metal object. 12 feet of cable allows for flexible antenna placement options.

Part # 1055-301 features 45° slant left / slant right antenna elements to increase the polarization diversity of attached MIMO / MANET radio systems. This is particularly useful in urban environments.

Features:

- 2 Input MIMO Antenna:
 - 1 each, 45° Slant Right
 - 1 each, 45° Slant Left
- 2.1 - 2.5 GHz
- Heavy Duty Magnetic Mount Base
- Includes Black Neoprene Rubber Surface Protection Cover (Field Replaceable)
- Integrated Low Loss RF Cables, 12 feet nominal
- Other RF Cable Length & Connector Types Available
- Type-N(m) RF Connectors (2x)
- Includes Mesh Cable Bundle Protector
- Perfect for Vehicle Mount Antenna Applications

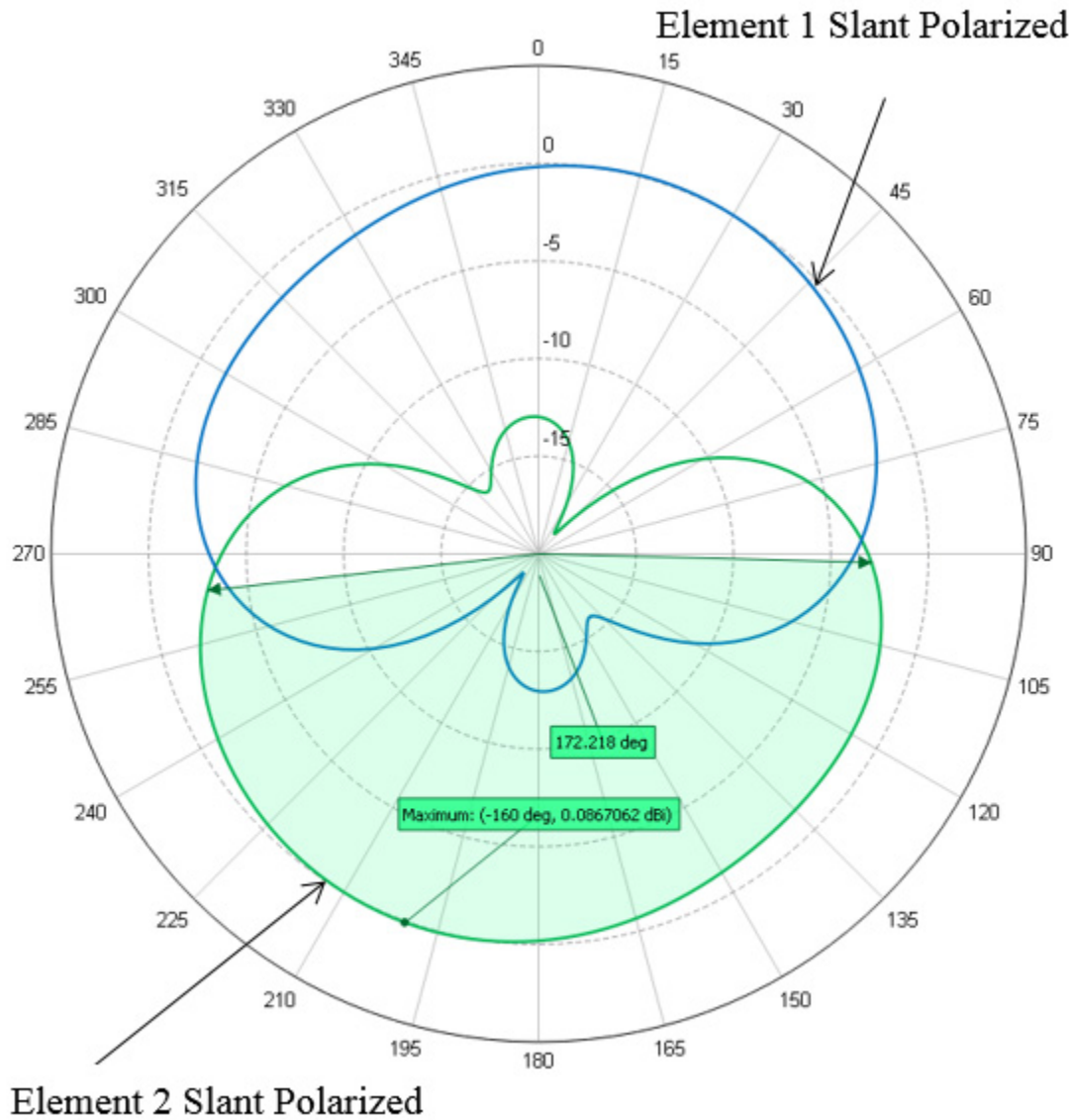


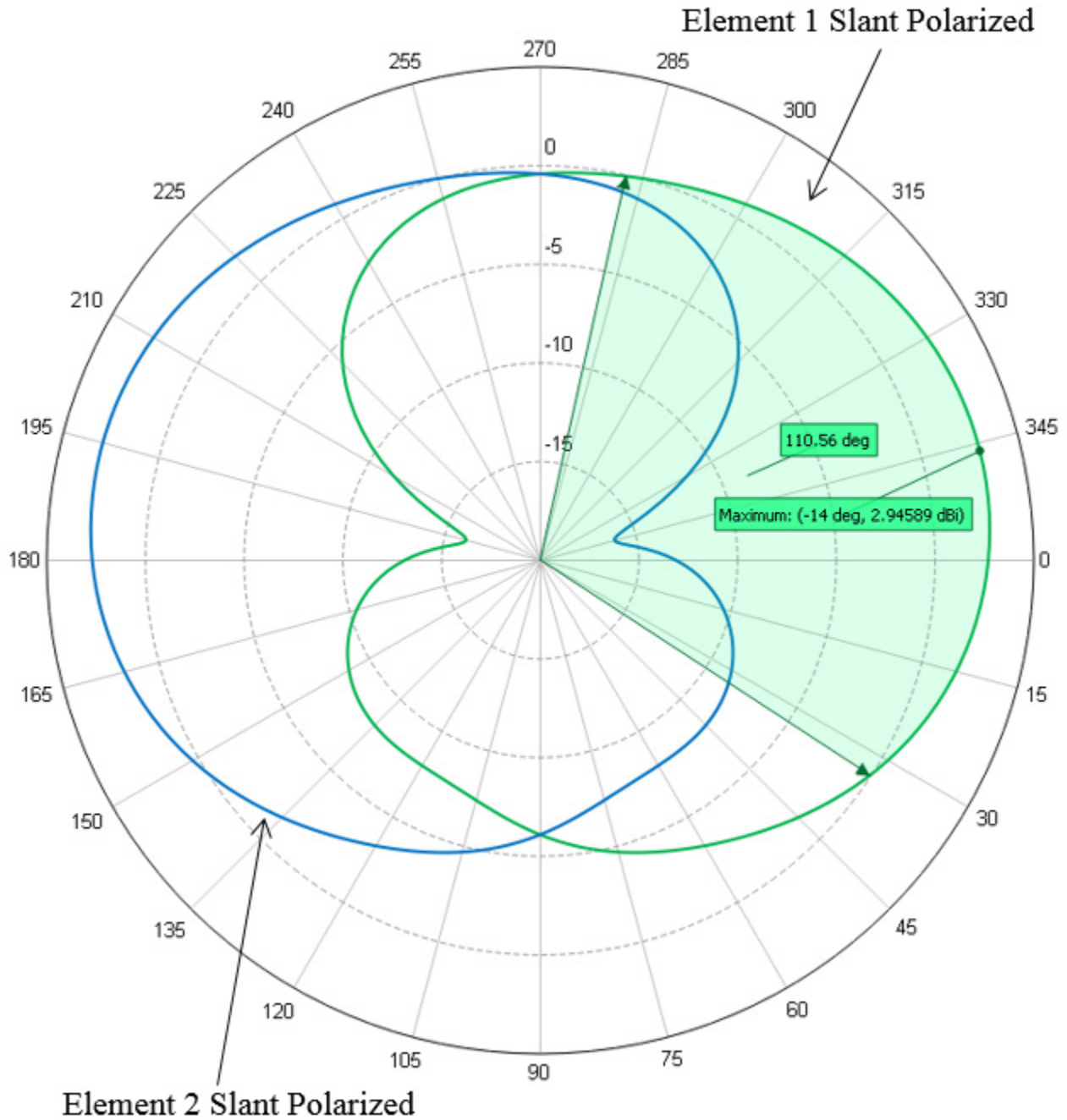
Antenna Specifications

| Parameter | Value | Units | Tolerance |
|----------------------------------|--|-------------|------------------|
| Antenna Pattern | Omni Antenna | | |
| Frequency Band | S | | |
| Impedance | 50 | Ohms | |
| Minimum Frequency | 2.1 / 2,100 | GHz / MHz | |
| Maximum Frequency | 2.5 / 2,500 | GHz / MHz | |
| Frequency Bandwidth | 0.4 / 400 | GHz / MHz | |
| Maximum VSWR | 2:1 | Ratio | |
| Maximum Gain | 2.9 | dBi | |
| Polarization | Slant L/R | | |
| Maximum RF Input Power | 50 | Watts | |
| Horizontal (AZ) Beamwidth | 360 | degrees | |
| Vertical (EL) Beamwidth | 110 | degrees | |
| Ground Plane Required | No | | |
| Mount Style | Magnetic Mount Base with Surface Protector | | |
| Mount Diameter | 3.280 / 83.312 | inches / mm | |
| Maximum Wind Velocity | 200 | mph | |
| RF Connector Type | Type-N(m) | | |
| RF Cable Type | LMR 200 | | |
| RF Cable Length | 12.000 / 3.658 | ft / m | |
| Product Height | 4.560 / 115.824 | inches / mm | ±.13" |
| Product Diameter | 3.280 / 83.312 | inches / mm | + .020" / -.000" |



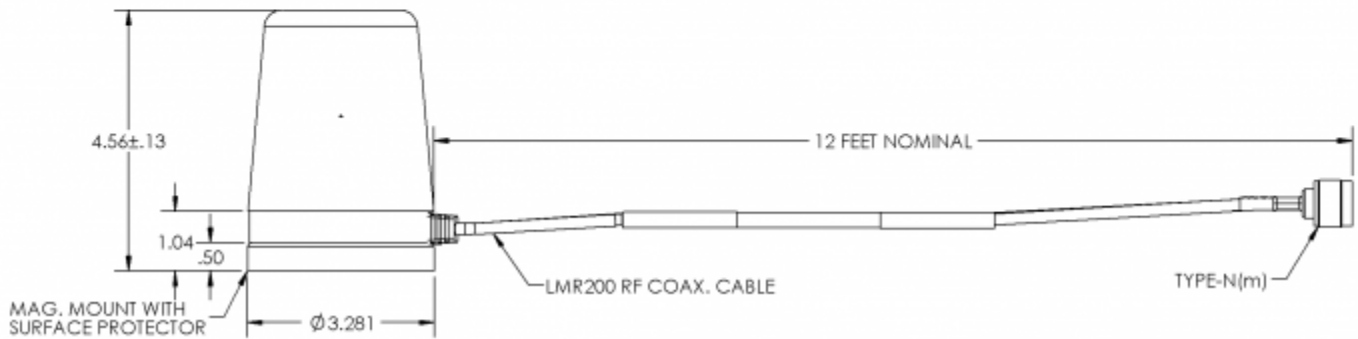
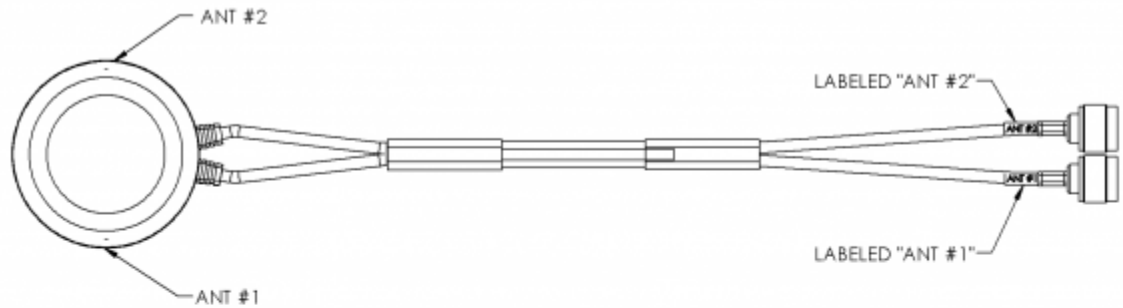
| Parameter | Value | Units | Tolerance |
|----------------|----------------|------------|-----------|
| Product Weight | 28.00 / 793.79 | oz / grams | |





Elevation Pattern

Referenced to +5 dBi (does not include cable loss)



Engineering Drawing

All dimensions are in inches