

Overview

Southwest Antennas' Turbo Cloverleaf represents the world's smallest rugged circularly polarized cloverleaf-style antenna. Featuring an innovative proprietary design that is 3x smaller than existing solutions without affecting antenna gain or efficiency while maintaining excellent radiation pattern control over the entire operational frequency band. The unique design also offers over 40 dB of isolation between two co-located antennas with opposite CP polarizations, which is a significant improvement over two co-located vertical or opposite slant polarized antennas. The small size, rugged design, and high performance characteristics make the Turbo Cloverleaf ideal for military, law enforcement, unmanned vehicle, and commercial wireless market applications.

Part #1032-021 is a right hand circular polarized (RHCP) Omni cloverleaf antenna with 1.98 - 2.2 GHz frequency band coverage and 1.2 dBi gain. The antenna features a three inch flexible coaxial gooseneck with black chrome SMA(m) RF connector, allowing for a wide range of position and mounting options. Waterproof housing makes the antenna suitable for indoor or outdoor use in any climate.

Features

- 1.98 - 2.2 GHz Frequency Band Coverage
- Right Hand Circular Polarization (RHCP)
- 1.2 dBi Omni Radiation Pattern
- Integrated 3.0" Length RF Coaxial Gooseneck
- Black Chrome SMA(m) RF Connector
- Top of Radome Marking for Center Frequency & Polarization
- Waterproof Design

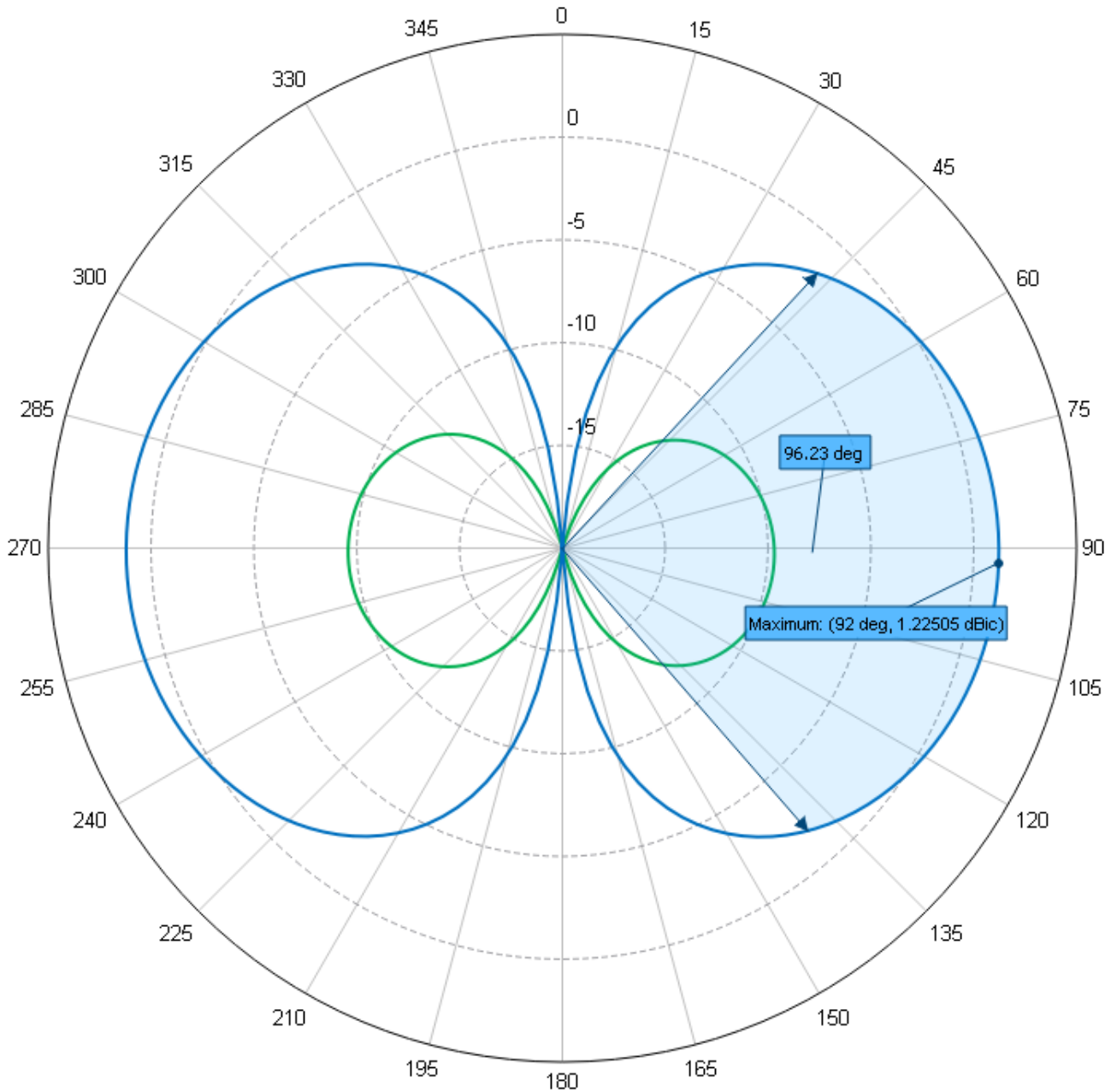
Markets and Applications Include:

- Military
- Law Enforcement
- Body Worn or Vehicle Mounted Tactical Radio Systems
- Unmanned Aerial Vehicles
- Unmanned Ground Vehicles
- Broadcast Video
- Commercial Wireless Applications
- MIMO Radio



Product Specifications

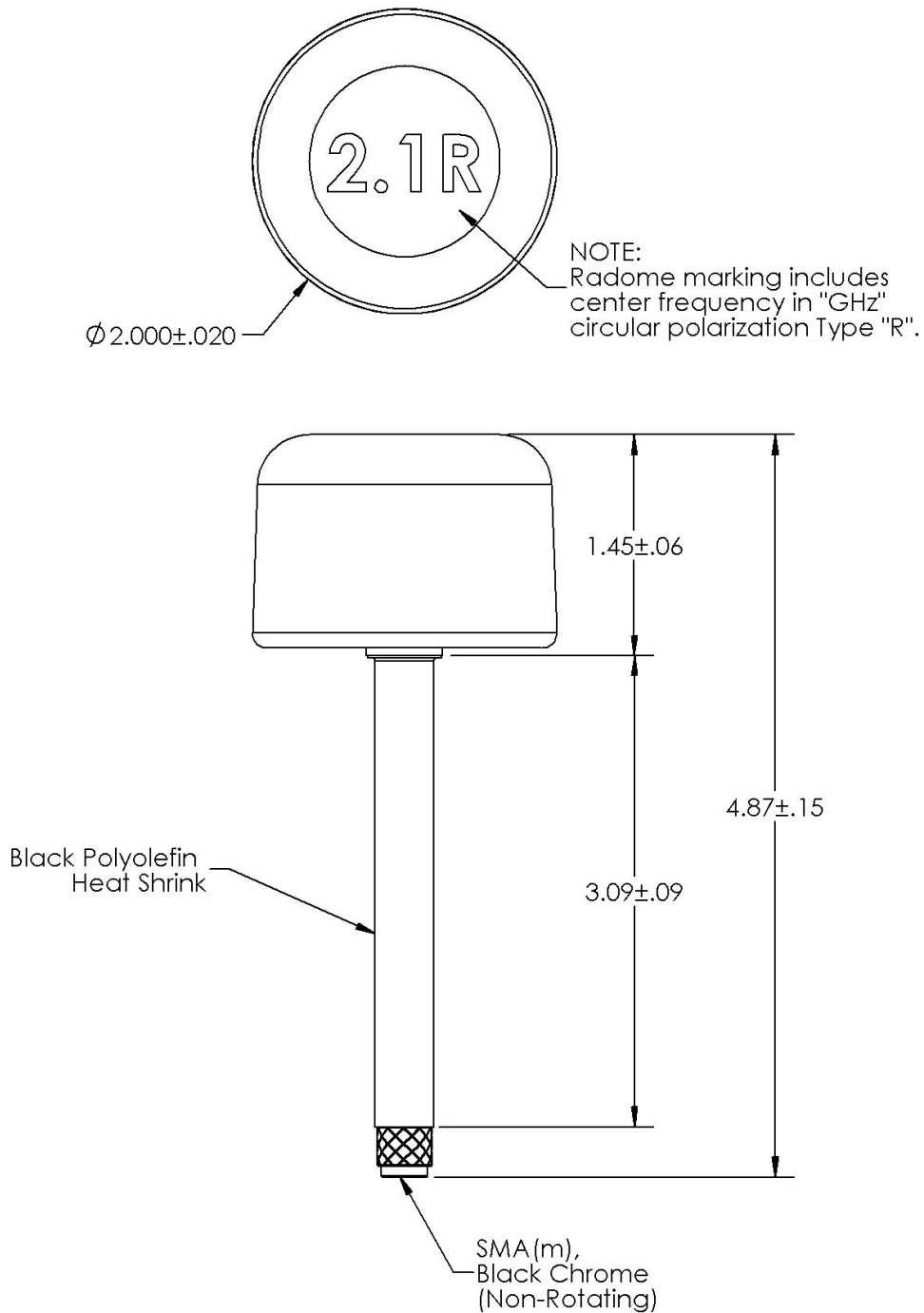
| Parameter | Value | Units | Tolerance |
|-------------------------|---------------------|-------------|-----------|
| Antenna Pattern | Omni Antenna | | |
| Frequency Band | L & S | | |
| Impedance | 50 | | |
| Minimum Frequency | 1.98 / 1,980 | GHz / MHz | |
| Maximum Frequency | 2.2 / 2,200 | GHz / MHz | |
| Frequency Bandwidth | 0.22 / 220 | GHz / MHz | |
| Maximum VSWR | 2.0:1 | Ratio | |
| Maximum Gain | 1.20 | dBic | |
| Polarization | RHCP | | |
| Color | Black | | |
| Horizontal AZ Beamwidth | 360 | Degrees | |
| Vertical EL Beamwidth | 92 | Degrees | |
| Antenna Labeling | 2.1R (On Radome) | | |
| Spring Or Gooseneck | Gooseneck | | |
| Gooseneck | Yes | | |
| Gooseneck Length | 3.09 / 78.49 | inches / mm | ±.09" |
| Gooseneck Diameter | .370 / 9.398 | inches / mm | |
| RF Connector Type | SMA(m) Non-Rotating | | |
| RF Connector Finish | Black Chrome | | |
| Product Height | 4.87 / 123.70 | inches / mm | ±.15" |
| Product Diameter | 2.0 / 50.8 | inches / mm | ±.020" |
| Product Weight | 2.00 / 56.70 | oz / g | |



Blue = RHCP Elevation Pattern
 Green = LHCP Cross Polarization

Elevation Pattern

Referenced to +5dBi



Engineering Drawing