



DUAL-BAND PHANTOM® ANTENNA IS IDEAL FOR WLAN AND 4.9 GHZ PUBLIC SAFETY APPLICATIONS

Laird Technologies' unique patented Phantom® dual-band antenna operates simultaneously at 2.4 GHz and 4.9 GHz and is a tough antenna for outdoor or indoor applications. The revolutionary design measures only 2.3" and features both vertical and horizontal polarization. This gives the antenna diversity, frequency agility, low visibility, wide bandwidth and a low angle radiation pattern that is superior to traditional gain antennas in most applications. The industry standard NMO mounting socket mates with all Laird Technologies' magnetic, trunk lid, and hole mounts. A threaded permanent stud mount model is also available for vandal resistant mounting on brackets, panels, ceilings or any other kind of housing.

FEATURES 

- Cross-polarization design ensures uninterrupted transmissions in urban canyons and rural drop-off areas
- Phantom® outperforms a 3dB whip in many applications
- U.S. Patent Nos. 5,977,931 – 6,292,156 and 7,209,096

MARKETS

- Public safety
- Transportation
- Utility
- Military mobile
- Fixed radio applications

global solutions: local support™

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SPECIFICATIONS

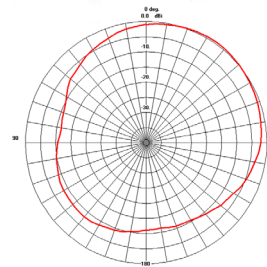
| ELECTRICAL | |
|---|---------------------------------|
| Frequency Band | ISM, 2.4-2.5 GHz / 4.9-5.85 GHz |
| Frequency Range (Test Frequency at Peak) | 2400 MHz 4900 MHz |
| Peak Gain (dBi) Azimuth Cut, Phi=0° | 0.7 0.9 |
| Peak Gain (dBi) Elevation Cut, Phi=90° | 0.6 5.7 |
| Elevation Beamwidth at Half-Power | 30° 65° |
| Azimuth Beamwidth at Half-Power | 130° 230° |

| MECHANICAL | |
|--------------------|------------------------------------|
| Antenna Dimensions | 1.44"(36.5 mm)dia x 2.3"(58.4 mm)H |
| Weight (Mass) | 0.25 lb (113.4 g) |

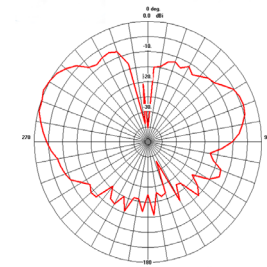
| TECHNICAL DATA | |
|-----------------------------|--|
| Pattern | Omni-Directional |
| Maximum Power | 100W |
| Nominal Impedance | 50 ohm |
| Polarization | Vertical and Horizontal |
| VSWR | <2:1 (includes 6ft of ATX195) <3:1 (no coaxial cable) |
| Termination | NMO and Permanent Mount w/ N Female Connector |
| F/B Ratio | NA |
| Mounting Hardware includes | NA (NMO mount sold separately) |
| Coaxial Cable Type & Length | None |
| Lightning Protection | NA |
| Operating Temperature | -40°C to +85°C |

MODEL AND ORDERING INFORMATION

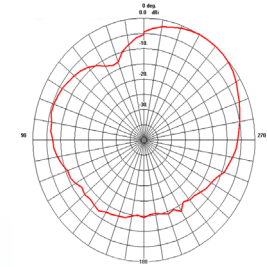
| MODEL | DESCRIPTION |
|---------------|-------------------------|
| TRA24/49003 | NMO Mount, White Radome |
| TRAB24/49003 | NMO Mount, Black Radome |
| TRA24/49003P | P-Mount, White Radome |
| TRAB24/49003P | P-Mount, Black Radome |



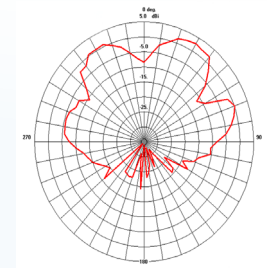
Max Gain: 0.7 dBi
Average Gain: -3.9 dBi
Max Angle: 325.0°



Max Gain: 0.6 dBi
Average Gain: -7.6 dBi
Max Angle: 295.0°



Max Gain: 0.2 dBi
Average Gain: -5.9 dBi
Max Angle: 325.0°



Max Gain: 2.9 dBi
Average Gain: -4.7 dBi
Max Angle: 30.0°

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