



DUALBAND PHANTOM ELITE[®] ANTENNA IS IDEAL FOR CELLULAR AND PCS APPLICATIONS

Laird's unique patented Phantom Elite[®] dual-band cellular antenna operates simultaneously on Cellular 821-896 MHz and PCE 1850-1990 MHz and is a tough antenna for outdoor or indoor applications. Suitable for outdoor and indoor applications, the revolutionary design measures only 2.7" and features field diversity with 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's 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 

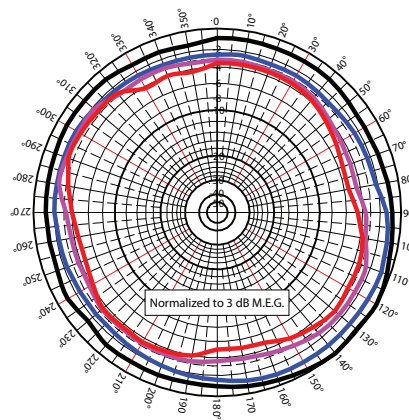
- True Field Diversity design ensures uninterrupted transmissions in urban canyons and rural drop off areas
- Phantom[®] outperforms a 3dB whip in many applications
- U.S. Patent Nos. 5,977,931 – 6,292,156 and 7,209,096

MARKETS

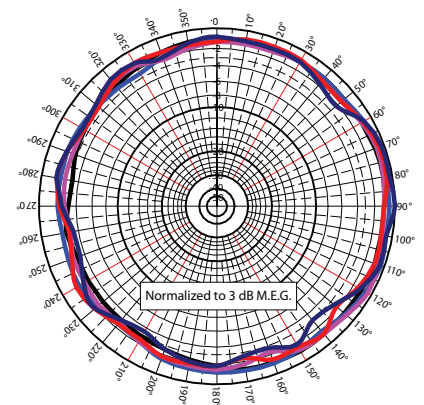
- Public safety
- Transportation
- Utility
- Military mobile
- Fixed radio applications

ANTENNA PATTERNS

**Vertical-to-Vertical Polarization
Azimuthal Pattern (Y, Z, or E-plane)**



Cellular: 821-896 MHz



PCS: 1850-1990 MHz

SPECIFICATIONS

ELECTRICAL

| | |
|---|--|
| Frequency Range | 821-896 MHz 1850-1990 MHz |
| Frequency Bandwidth (low) | 75 MHz@VSRW < 2:1 |
| Frequency Bandwidth (high) | 140 MHz@VSRW < 2:1 |
| VSWR | < 2.1 |
| Return Loss | -10dB max |
| Nominal Gain | 3 dB-M.E.G. |
| Maximum Power | 100 W |
| Nominal Impedance | Ω50 |
| Polarization | Vertical & Horizontal |
| Pattern | Patented Field Diversity (Omni-directional) |
| Half-Power Beamwidth (Elevation° x Azimuth°) | 130° x 360° |
| Cable & Mount | MB195 (Sold Separately) |
| Terminations | NMO or P Mount |
| Tuning: | Connector None |

MECHANICAL

| | |
|-----------------------|-----------------|
| Material | High Heat ABS |
| Operating Temperature | -40° C to 85° C |

MODEL AND ORDERING INFORMATION

| MODEL | DESCRIPTION | COLOR | RADOME HEIGHT | WEIGHT CONNECTOR |
|----------------|--------------------------|-------|---------------|------------------|
| ETRA821/18503 | Dual Band Phantom® Elite | Black | 2.70" | .15 lbs NMO |
| ETRA821/18503P | Dual Band Phantom® Elite | Black | 2.70" | .25 lbs N Female |
| ETRA821/18503 | Dual Band Phantom® Elite | White | 2.70" | .15 lbs NMO |
| ETRA821/18503P | Dual Band Phantom® Elite | White | 2.70" | .25 lbs N Female |

Addition of "P" to the model numbers indicates Permanent Mount.

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ANT-DS-PHANTOM ELITE DUAL-BAND 0215

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