Smart Technology. Delivered.

Phantom Elite®
Dual-Band Antennas

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 RoHS

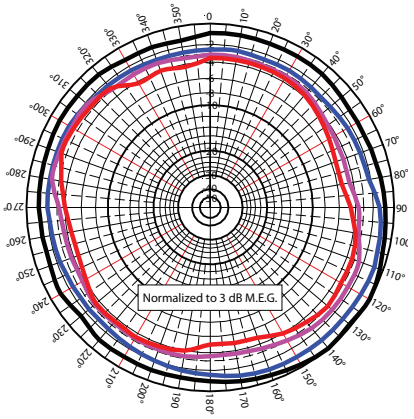
- True Field Diversity design ensures uninterrupted transmissions in urban canyons and rural drop off areas
- Phantom® outperforms a 3dB whip in many applications
- U.S. Patent Nos. 5,977,931 – 6,292,156 and 7,209,096

MARKETS

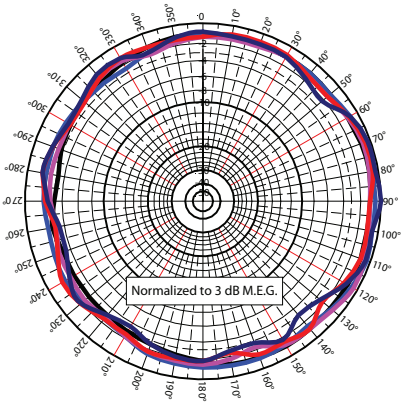
- Public safety
- Transportation
- Utility
- Military mobile
- Fixed radio applications

ANTENNA PATTERNS

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



Cellular: 821-896 MHz



PCS: 1850-1990 MHz

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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
ETRAB821/18503	Dual Band Phantom® Elite	Black	2.70”	.15 lbs NMO
ETRAB821/18503P	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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