



DUAL-BAND PHANTOM® ANTENNA IS IDEAL FOR CELLULAR AND PCS APPLICATIONS

Laird Technologies' unique patented Phantom® dual-band cellular antenna operates simultaneously on Cellular 821-896 MHz and PCS 1850-1990 MHz and is a tough antenna for outdoor or indoor applications. Suitable for outdoor and indoor applications, the revolutionary design measures only 2.3" 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 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

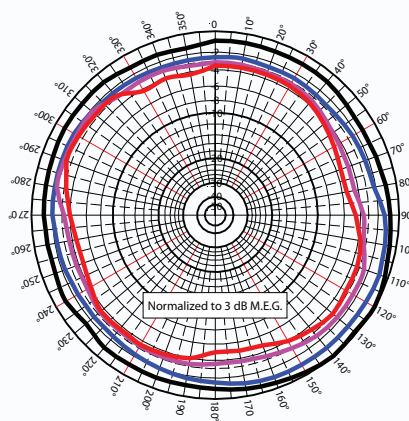
- True Field Diversity design ensures uninterrupted transmissions in urban canyons and rural drop off areas
- Phantom® outperforms a 3dB whip in many applications
- U.S. Patent Nos. 5,977,931 – 6,292,156 and 7,209,096

MARKETS

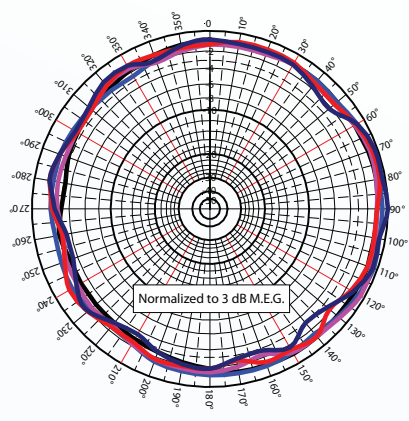
- Public safety
- Transportation
- Utility
- Military mobile
- Fixed radio applications.

ANTENNA PATTERNS

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



Cellular: 821-896 MHz



PCS: 1850-1990 MHz

global solutions: local support™

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SPECIFICATIONS

ELECTRICAL	
Frequency Range	821-896 MHz 1850-1990 MHz
Frequency Bandwidth (low)	75 MHz@VSWR < 2:1
Frequency Bandwidth (high)	140 MHz@VSWR < 2:1
VSWR	< 2.1
Return Loss	-10dB max
Nominal Gain	3 dB-M.E.G.
Maximum Power	100 W
Nominal Impedance	50 Ω
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 w/N Female Connector
Tuning:	None

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

MODEL AND ORDERING INFORMATION

MODEL	DESCRIPTION	COLOR	RADOME HEIGHT	WEIGHT CONNECTOR
TRAB821/18503	Dual Band Phantom®	Black	2.30"	.15 lbs NMO
TRAB821/18503P	Dual Band Phantom®	Black	2.30"	.25 lbs N Female
TRA821/18503	Dual Band Phantom®	White	2.30"	.15 lbs NMO
TRA821/18503P	Dual Band Phantom®	White	2.30"	.25 lbs N Female

Permanent Mounting Option:

Please order by antenna model with the addition of the letter "P" to indicate permanent mounting option (TRAB821/18503P).

ANT-DS-PHANTOM DUAL-BAND 0809

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