# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# Phantom<sup>®</sup> 800 MHz-5.8GHz Antennas



# PHANTOM<sup>®</sup> ANTENNA IS IDEAL FOR CELL, GSM, PCE, WIFI, 802.11 AND BLUETOOTH WIRELESS APPLICATIONS

Laird's unique patented Phantom<sup>\*</sup> is a tough low-profile antenna for outdoor or indoor applications. Measuring only 2.7" tall, the Phantom 800 MHz to 5.8 GHz antenna models' revolutionary design features field diversity with both vertical and horizontal polarization components. 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 Technolgies' 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.

The Phantom<sup>®</sup> patented technology is beneficial when high performance is desired and extreme ruggedness and low profile is required.

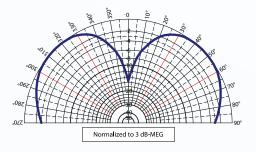
### FEATURES **V**ROHS

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

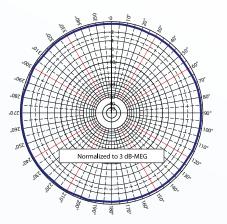
### **MARKETS**

- Cell
- GSM and PCS
- WiFi
- 802.11
- Bluetooth wireless applications

### **ANTENNA PATTERNS**



Elevation Pattern (Y, Z, or H-plane)



Azimuth Pattern (X,Y, or E-plane)

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#### Smart Technology. Delivered.

# Phantom<sup>®</sup> 800 MHz-5.8GHz Antennas

## **SPECIFICATIONS**

ELECTRICAL	
VSWR	< 2.1
Nominal Gain	3 dB-M.E.G.
Maximum Power	100 W
Nominal Impedance	50 Ω
Polarization	Vertical
Pattern	Omnidirectional
Half-Power Beamwidth (Elevation° x Azimuth°)	130° x 360°
Coaxial Cable Length & Type	None
Terminations	NMO Socket or, type N-female

### **MODEL AND ORDERING INFORMATION**

MODEL	DESCRIPTION
TRA8063	806-870 MHz 3 dB-MEG Phantom $^{\circ}$ 3/4 NMO, White Radome
TRA8213	821-896 MHz 3 dB-MEG Phantom $^{\circ}$ 3/4 NMO, White Radome
TRA8903	890-960 MHz 3 dB-MEG Phantom $^{\circ}$ 3/4 NMO, White Radome
TRA9023	902-928 MHz 3 dB-MEG Phantom $^{\circ}$ 3/4 NMO, White Radome
TRA18503	1.85 - 1.99 GHz 3dB-MEG Phantom® ¾ NMO, White Radome
TRA24003	2.4 – 2.5 GHz 3 dB-MEG Phantom <sup>®</sup> $^{3}$ NMO, White Radome
TRA58003	4.9 – 6.0 GHz 3 dB-MEG Phantom <sup>®</sup> 3/4 NMO, White Radome
TRADCAGP	G - Drop ceiling antenna adaptor for P-mount Phantom w/ 6"x6"x0.016" ground plane
Sealtube3	Heat shrink tubing 3"x1"DIA install (use for jaw protector on installation wrench)

Add "B" to model number for black radome. Example: TRAB8063 Add "P" to model number for Permanent Mount. Example: TRA8063P

MECHANICAL	
Color	Black or White
Height (initially)	2¾"
Diameter	1.438″
Weight	0.173 lb
Material	ABS
Mounting Information	NMO (PN: MB8, MAB8) Sold Separately
Noise Suppressor	BlackHawk NS1535 1-35 VOLT, 15 Amp Noise Suppessor (Sold Separately)

#### **Permanent Mounting Option:**

Please order by antenna model and insert letter "P" to indicate permanent mounting option (TRA8063P).

#### ANT-DS-PHANTOM 800-5800 MHz 1214

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