



Smart Technology. Delivered.

Phantom® Multi-Band Antennas



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

Laird's unique patented Phantom® multi band cellular antenna operates simultaneously on seven bands and is a tough antenna for outdoor or indoor applications. The revolutionary design measures only 2.3". The patented field Phantom® technology ensures uninterrupted voice and data transmissions in urban canyons and rural drop off areas.

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

- Operates simultaneously on 7 bands
 - AMPS 806-896 MHz
 - GSM 890-960 MHz
 - GPS 1575.42 MHz
 - DCS 1710-1880 MHz
 - PCS 1850-1990 MHz
 - UMTS 1900-2170 MHz
 - ISM (BT) 2.4 - 2.5 GHz
- Patented Phantom® technology ensures uninterrupted voice and data transmissions in urban canyons and rural drop off areas
- U.S. Patent Nos. 5,977,931 – 6,292,156; other patents pending

MARKETS

- Mobile Radio
- Fixed Station
- In-Building Wireless

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SPECIFICATIONS

	AMPS	GSM	GPS	DCS	PCS	UMTS	ISM
Frequency Range MHz	806-896	890-960	1575.42	1710-1880	1850-1990	1900-2170	2400-2500
Peak Gain dBi	5.9	5.8	5.1	4.2	4.2	4.4	3.0
Polarization	Vertical						
Impedance	50 Ω						
Input Power	100 watts						
Input Connection	< 2:1						<2.5:1
Dimensions	1.44" wide x 2.30" tall (NMO), 1.44" x 3.15" tall (P-mount)						
Radome Material	ABS						
Weight	.15 lb (NMO) and .25 lb (P-mount)						

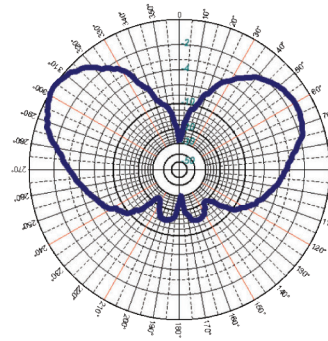
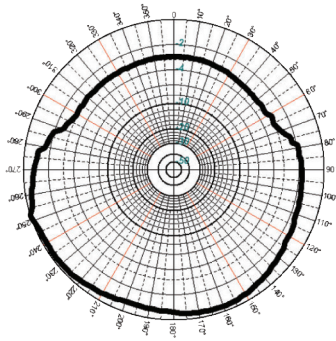
MODEL AND ORDERING INFORMATION

MODEL	DESCRIPTION	MOUNT	COLOR	RADOME HEIGHT	WEIGHT	CONNECTOR
TRAB806/17103	Multi-Band Phantom*	NMO	Black	2.30"	.15 lbs	NMO
TRAB806/17103P	Multi-Band Phantom*	Permanent	Black	2.30"	.25 lbs	N Female
TRA806/17103	Multi-Band Phantom*	NMO	White	2.30"	.15 lbs	NMO
TRA806/17103P	Multi-Band Phantom*	Permanent	White	2.30"	.25 lbs	N Female
TRADCA	Drop ceiling antenna adaptor for P-mount Phantom					
TRADCAGP	Drop ceiling antenna adaptor for P-mount Phantom with 6" x 6" x .016" ground plane					

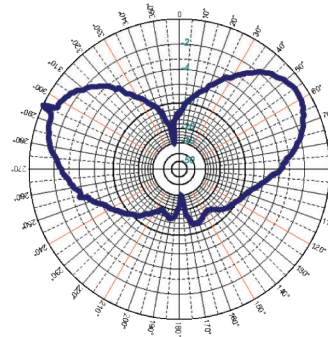
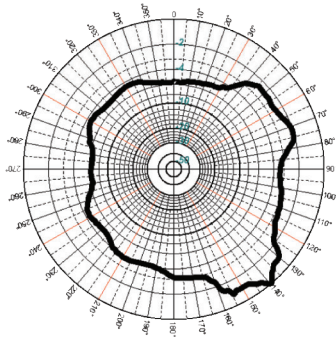
ANTENNA PATTERNS

Azimuthal (X, Y or E-Plane)

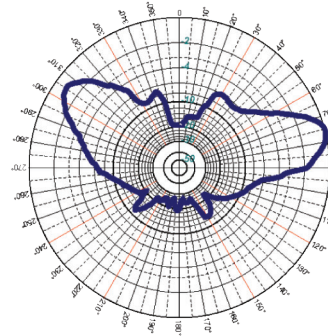
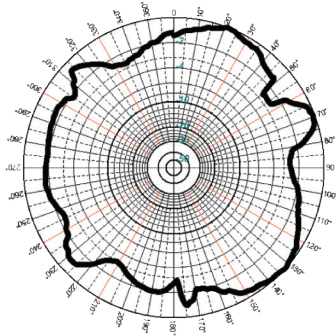
Elevation (Y, Z or H-Plane)



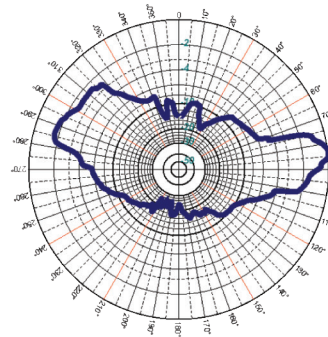
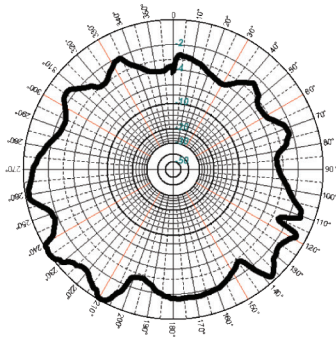
AMPS / GSM900
880-960 MHz
Test Freq = 920 MHz
Peak Gain: 5.8 dBi



GSM1800
1710-1880 MHz
Test Freq = 1795 MHz
Peak Gain: 4.2 dBi

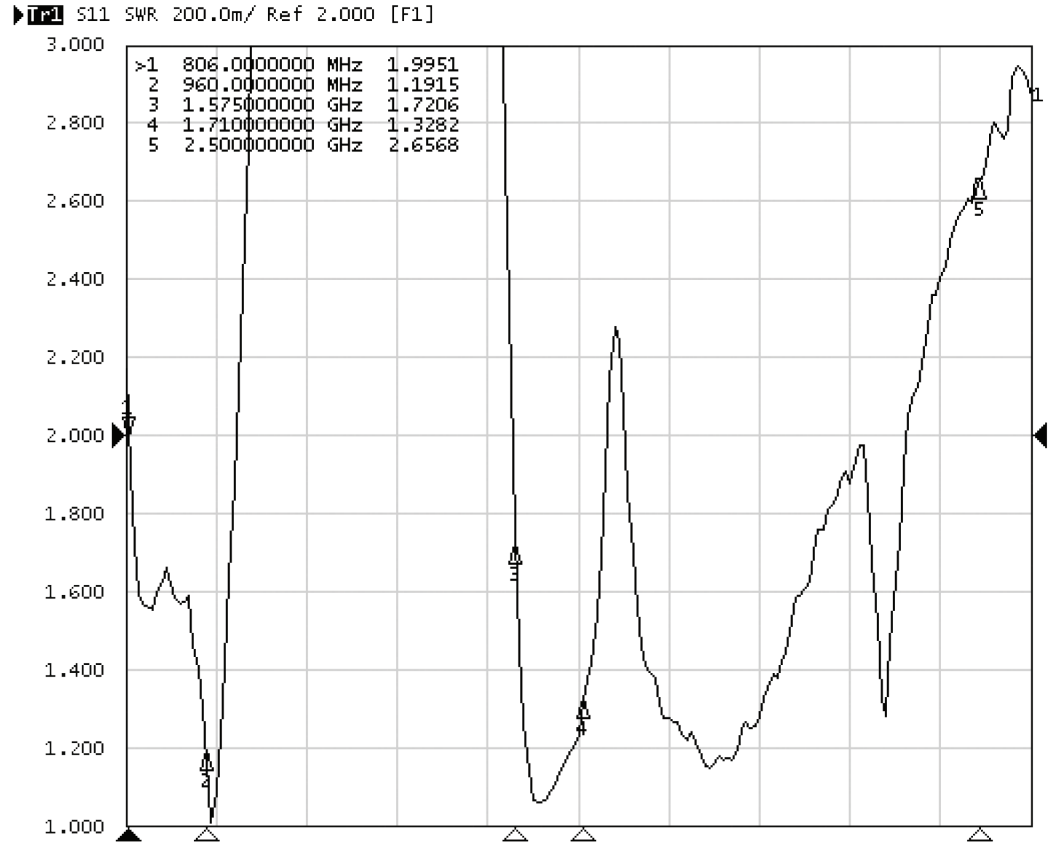


UMTS
1900-2170 MHz
Test Freq = 2035 MHz
Peak Gain: 4.4 dBi



ISM / BT / Wifi
2400-2500 MHz
Test Freq = 2450 MHz
Peak Gain: 3.0 dBi

VSWR of TRA(B)806/17103(P)



TRA(B)806/17103(P) Typical VSWR sweeps

Cell / GSM900 Frequency Range 806-960 MHz (VSWR <2:1)

Marker 1: 1.9951 to 1 @ 806 MHz

Marker 2: 1.1915 to 1 @ 960 MHz

GPS Frequency 1575 MHz (VSWR <2:1)

Marker 3: 1.7206 to 1 @ 1575 MHz

DCS / GSM1800 / UMTS / WiFi Frequency Range 1710-2500 MHz (VSWR <2:1)

Marker 4: 1.3282 to 1 @ 1710 MHz

Marker 5: 2.6568 to 1 @ 2500 MHz

6/30/2006

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