

# TRAB806/17103P

## Low Profile Multi-Band Cellular Antenna

PRODUCT INFORMATION

- ✓ Operates simultaneously on 7 bands
- ✓ Permanent mounting external to control panel
- ✓ Phantom® patented true field diversity design
- ✓ 3dB MEG gain outperforms a 3dB whip in many applications

Multi-band Antenex Phantom®, TRAB806/17103P, is specially designed for permanent mounting through a relatively thin metal surface (must be metal to provide ground plane). The Antenex Phantom® is specified by public safety, military, utility and transportation providers and installed on Apache, Black Hawk and Chinook helicopters and Humvee and Bradley military vehicles around the world. Threaded connector on the underside of the antenna is N/Female. To connect to a phone or other device, cabling and appropriate phone adapter cable is required.

Phantom® patented true field diversity design provides uninterrupted transmissions in urban canyons and rural drop off areas and counteracts signal fading in reflective or mobile environments.

Phantom is a registered trademark of Antenex/  
Laird

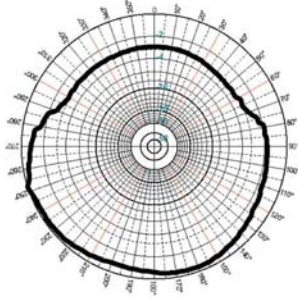


### Specifications

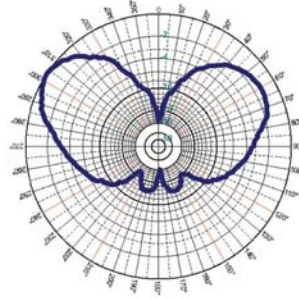
<b>Frequency Range</b>	806-896MHz: Cellular/iDEN 890-960MHz: GSM Europe 1575.42MHz: GPS 1710-1880MHz: 1700 AWS 1710-1880MHz: DCS Europe 1850-1990MHz: PCS 1900-2170MHz: UMTS 2110-2155MHz: 1700 AWS 2.4-2.5GHz: WiFi
<b>Impedance</b>	50 Ohms
<b>Antenna Gain (Peak)</b>	3dB-MEG 806-896MHz: 5.9dBi 890-960MHz: 5.8dBi 1575.42MHz: 5.1dBi 1710-1880MHz: 4.2dBi 1850-1990MHz: 4.2dBi 1900-2170MHz: 4.4dBi 2.4-2.5GHz: 3.0dBi
<b>Radiation Polarization</b>	Omni
<b>Ground Plane</b>	Cross Polarized Metal Ground Plane Required (6.5" diameter)
<b>Height</b>	2.3 in (3.15 in including mount) 5.8 cm(8.0 cm including mount)
<b>Width</b>	1.44 in (3.7 cm)
<b>Color</b>	Black
<b>Mount</b>	Permanent mounts - mounts through metal surface
<b>Connector</b>	N/Female

B&B ELECTRONICS

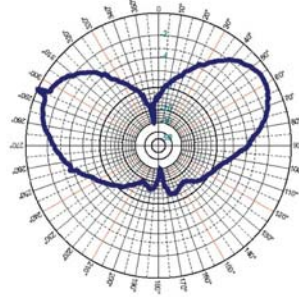
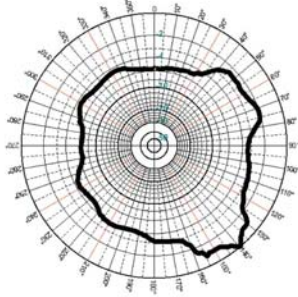
Azimuthal (X, Y or E-Plane)



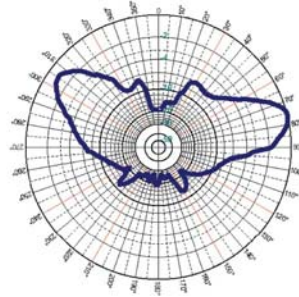
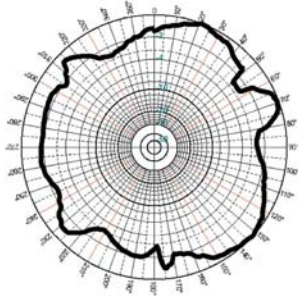
Elevation (Y, Z or H-Plane)



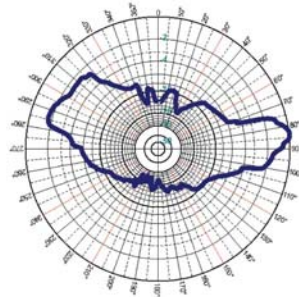
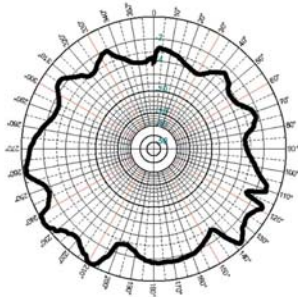
**AMPS / GSM900**  
880-960 MHz  
Test Freq = 920 MHz  
Peak Gain: 5.8 dBi



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

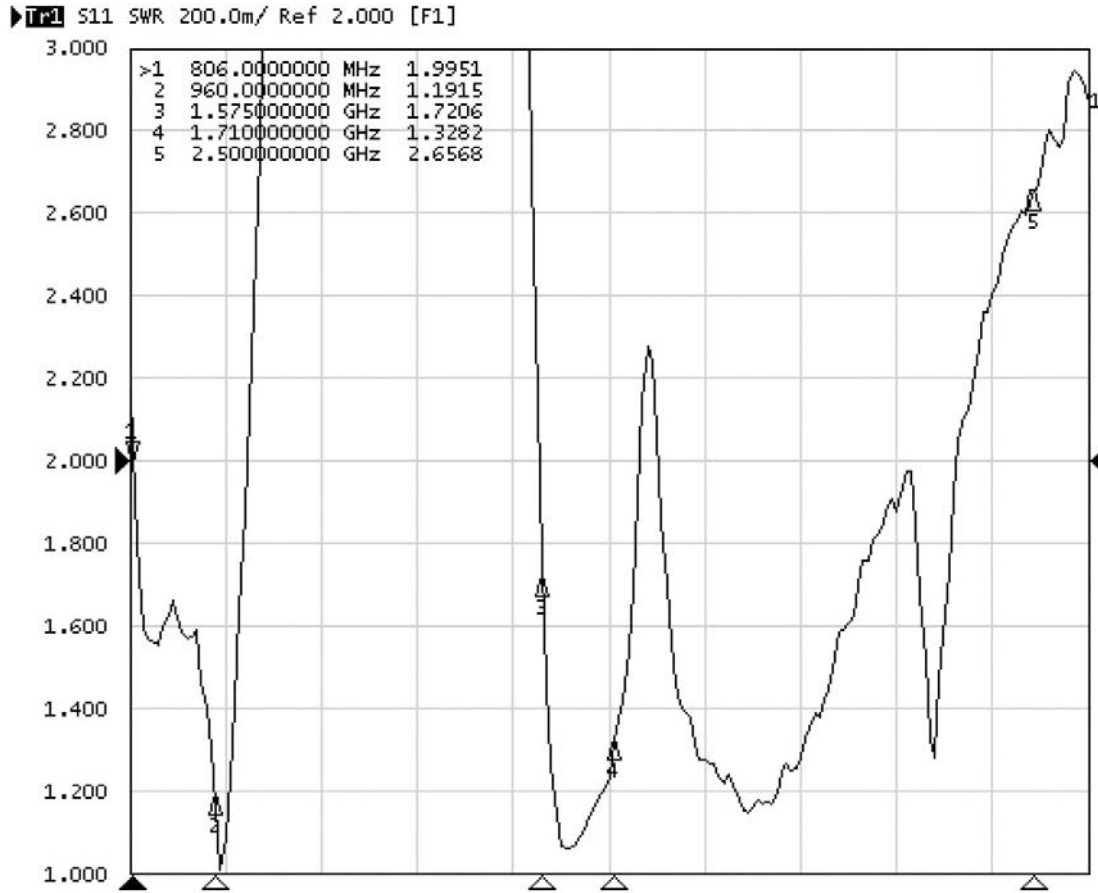


**UMTS**  
1900-2170 MHz  
Test Freq = 2035 MHz  
Peak Gain: 4.4 dBi



**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  
06/30/2006