

Multi Band Phantom® Antennas



TRAB806/17103

TRA806/17103P

U.S. Patent Nos. 5,977,931; 6,292,156;
and other patents pending

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 field diversity Phantom® technology ensures uninterrupted voice and data transmissions in urban canyons and rural drop off areas

Applications

- Mobile Radio
- Fixed Station
- In-Building Wireless

Specifications

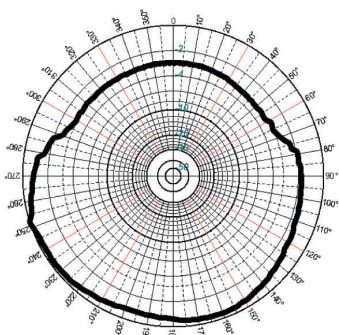
	AMPS	GSM	GPS	DCS	PCS	UMTS	ISM (BT)
Frequency Ranges	806-896	890-960	1575.42	1710-1880	1850-1990	1900-2170	2.4-2.5GHz
Peak Gain	5.9 dBi	5.8 dBi	5.1 dBi	4.2 dBi	4.2 dBi	4.4 dBi	3.0 dBi
Polarization	Vertical and Horizontal						
Impedance	50Ω						
Input Power	100 watts						
Input Connection	ISM/BT < 2.5:1 All other bands <2:1						
Dimensions	1.44" wide x 2.30" tall (NMO) 1.44" wide x 3.15" tall (P-mount)						
Radome Material	ABS						
Weight	.15 lb. (NMO) and .25 lb (P-mount)						

Model and Ordering Information:

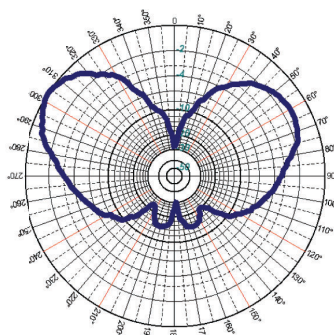
Model Number	Description	Mount	Color	Radome Height	Weight	Connector
TRAB806/17103	Multi-Band Phantom®	NMO	Black	2.30"	.15 lbs	NMO
TRAB806/17103P	Multi-Band Phantom®	Permanent	Black	2.30"	.25 lbs	N Female
TRA806/17103	Multi-Band Phantom®	NMO	White	2.30"	.15 lbs	NMO
TRA806/17103P	Multi-Band Phantom®	Permanent	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					

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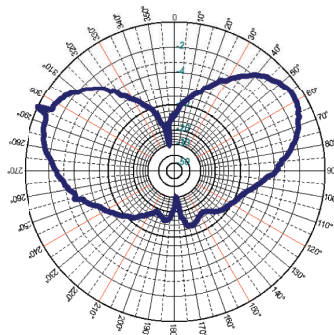
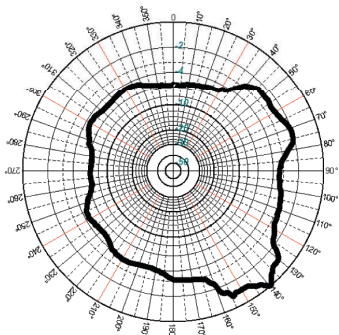
Azimuthal (X, Y or E-Plane)



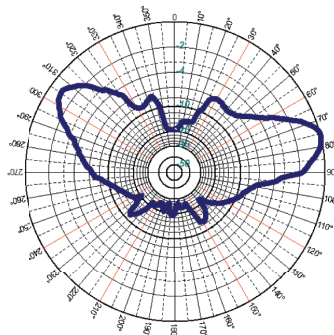
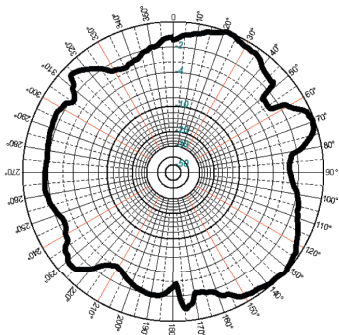
Elevation (Y, Z or H-Plane)



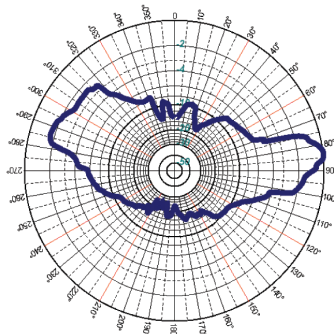
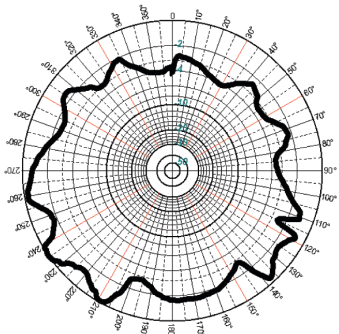
AMPS / GSM900
880-960 MHz
Test Freq = 920 MHz
Peak Gain: 5.8 dBi



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

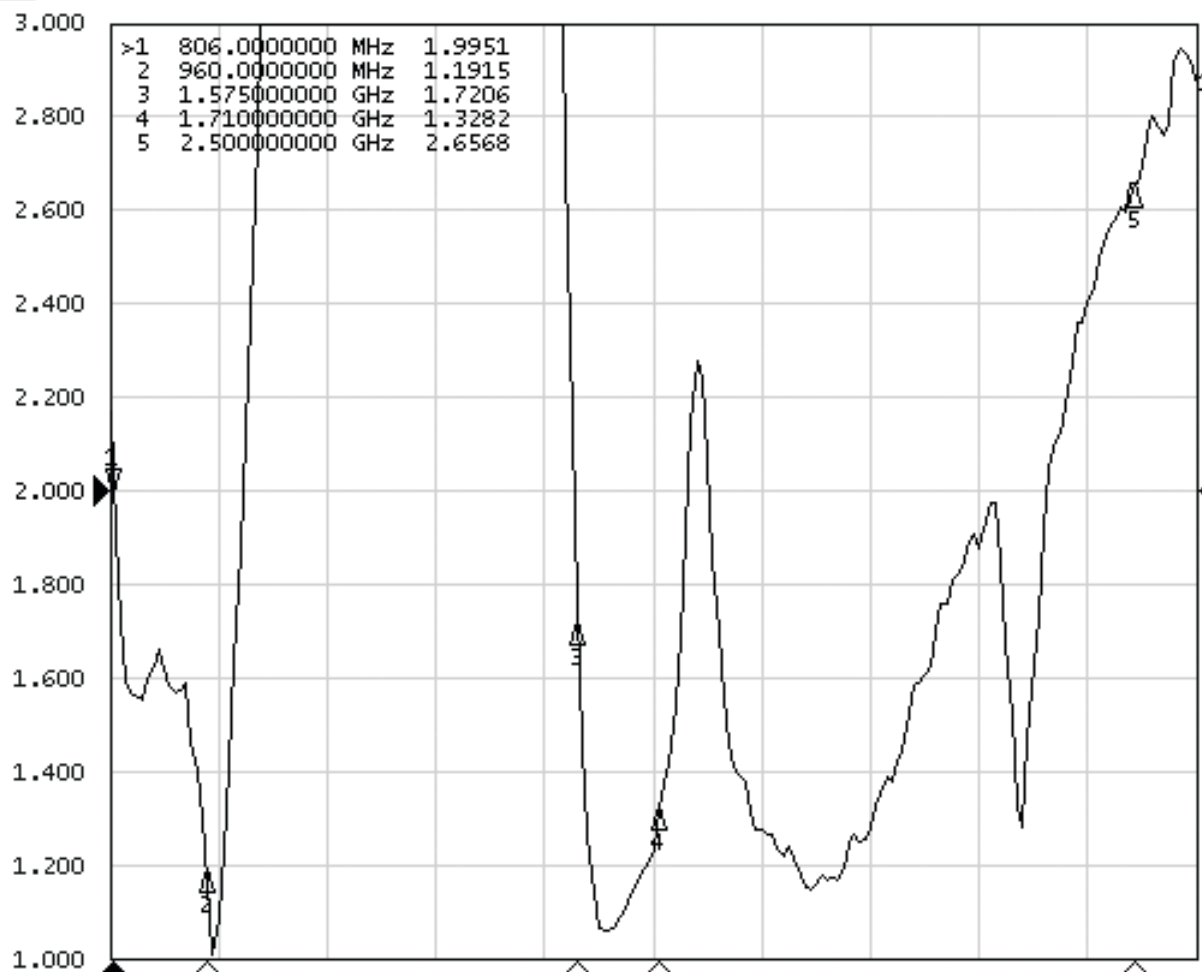


ISM / BT / Wifi
2400-2500 MHz
Test Freq = 2450 MHz
Peak Gain: 3.0 dBi

Multi Band Phantom[®] Antennas

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

► Tr1 S11 SWR 200.0m/ Ref 2.000 [F1]



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