



PHANTOM

Multi-Band Antennas 806-960 MHz/1575.42 MHz/1710-2170MHz/2400-2500MHz

The 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 inches. 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 TE'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 AND BENEFITS

- Operates simultaneously on seven frequency bands: AMPS, GSM, GPS, DCS, PCS, UMTS, and ISM
- 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

ELECTRICAL SPECIFICATION	AMPS	GSM	GPS	DCS	PCS	UMTS	ISM
Frequency Range MHz (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
VSWR* , Max	2:1						
Polarization	Vertical						
Nominal Impedance (Ohms)	50						
Input Power (W)	100						

MECHANICAL SPECIFICATION	
Dimensions - width x height cm (in.)	3.66 x 5.84 (1.44 x 2.30) NMO, 3.66 x 8.00 (1.44 x 3.15) P-mount
Weight - kg (lbs.)	0.068 (0.15) NMO, 0.11 (0.25) P-mount
Radome Material	SABIC Lexan

ENVIRONMENTAL SPECIFICATION

Operating Environment (Indoor or Outdoor)	Indoor and Outdoor
Operating Temperature - °C (°F)	-30 to +70°C (-22 to +158°F)
Storage Temperature - °C (°F)	-40 to +85°C (-40 to +185°F)
Material Substance Compliance	RoHS
Ingress Protection Rating	IP67

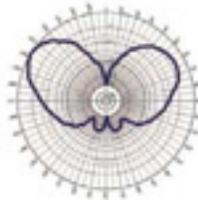
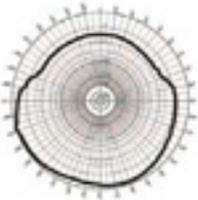
CONFIGURATION

MODEL	DESCRIPTION	MOUNT	COLOR	HEIGHT	WEIGHT	CONNECTOR
TRAB806-17103	Multi-Band Phantom*	NMO	Black	5.84 cm (2.30 in.)	0.07 kg (0.15 lbs)	NMO
TRAB806-17103P	Multi-Band Phantom*	Permanent	Black	8.0 cm (3.15 in.)	0.11 kg (0.25 lbs)	N Female
TRA806-17103	Multi-Band Phantom*	NMO	White	5.84 cm (2.30 in.)	0.07 kg (0.15 lbs)	NMO
TRA806-17103P	Multi-Band Phantom*	Permanent	White	8.0 cm (3.15 in.)	0.11 kg (0.25 lbs)	N Female
TRADCAGP	Drop ceiling antenna adaptor for P-mount Phantom with 6 in. x 6 in. x .016 in. ground plane					

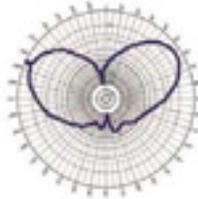
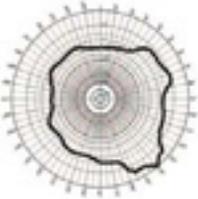
ANTENNA PATTERNS

Azimuthal (X, Y or E-Plane)

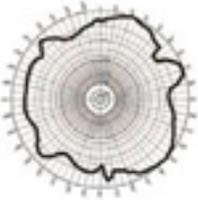
Elevation (Y, Z or H-Plane)



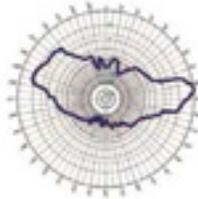
AMPS / GSM900
880-960 MHz
Test Freq = 920 MHz
Peak Gain: 5.8 dBi



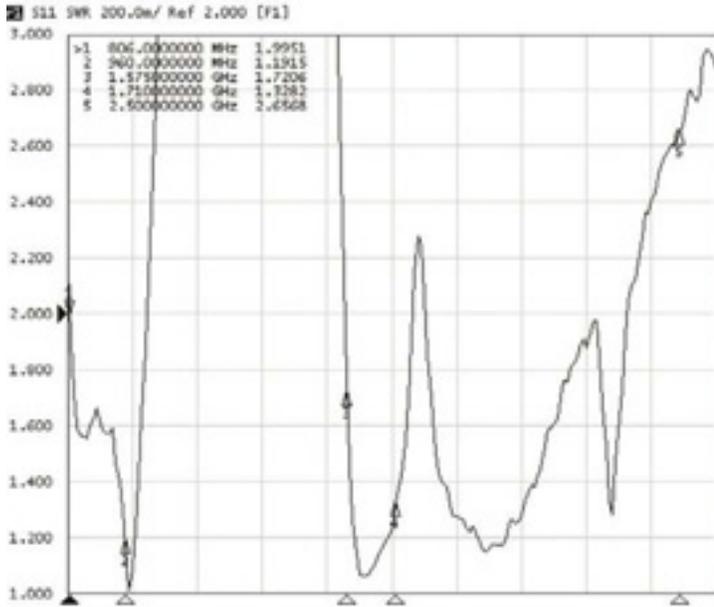
GSM1800
1710-1880 MHz
Test Freq = 1795 MHz
Peak Gain: 4.2 dBi



UITS
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



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

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