



Phantom® Mobile Antennas for CELL/GSM/WiFi/802.11/ Bluetooth Wireless

Features

- Patented Field Diversity
- High performance mobile antenna operates on a 6" diameter (min.) ground plane.
- High performance whipless design for mobile application.
- Easy installation w/ optional NMO mounts
- 100% tested on a network analyzer

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

Electrical Specifications

VSWR	< 2:1
Nominal Gain	3 dB-MEG
Maximum Power	150W
Nominal Impedance	50Ω
Polarization	Vertical & Horizontal
Pattern	Omni-Directional
Half-Power Beamwidth	130° x 360° (Ei° x Az°)
Termination	NMO Socket
	P-Mount (Type N-Female)

Mechanical Specifications

Color	Black or White
Height	2.30"
Diameter	1.438"
Weight	0.15 lb
Material	ABS
Mounting Info: <1000 MHz	NMO (PN: MB8, MAB8)
DC to 6 GHz	NMO (PN: MB195)
	(Sold Separately)
Noise Suppressor (Optional)	Blackhawk NS 1535
	1-35 Volt, 15 Amp
	(Sold Separately)

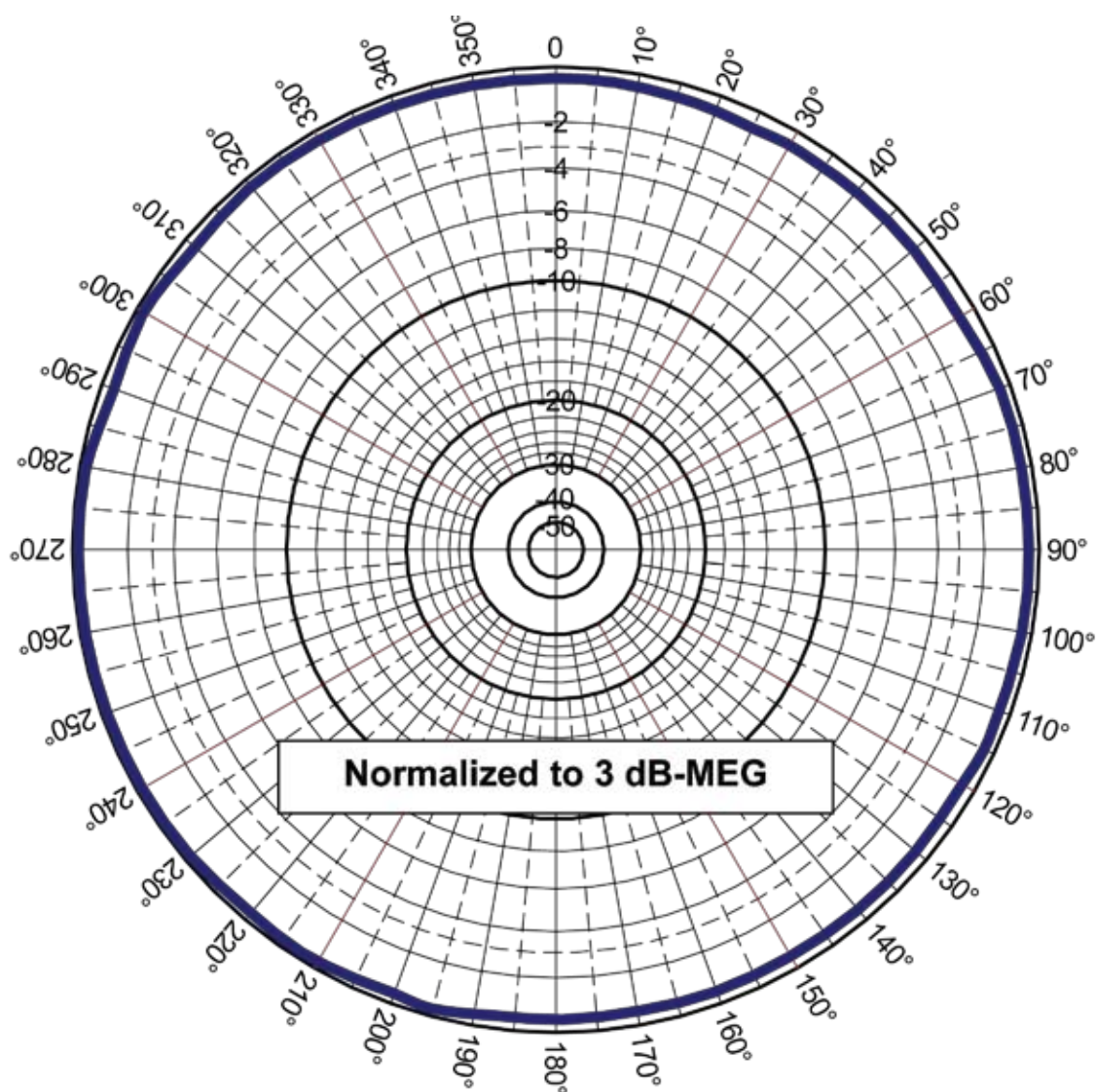
Model and Ordering Information:

Model Number	Description	Mount	Color
TRA(B)8063	806-866 MHz 3 dB-MEG Phantom®	¾ NMO	White Radome (Insert "B" for black)
TRA(B)8213	821-896 MHz 3 dB-MEG Phantom®	¾ NMO	White Radome (Insert "B" for black)
TRA(B)8903	890-960 MHz 3 dB-MEG Phantom®	¾ NMO	White Radome (Insert "B" for black)
TRA(B)9023	902-928 MHz 3 dB-MEG Phantom®	¾ NMO	White Radome (Insert "B" for black)
TRA(B)16003	1600-1850 MHz 3 dB-MEG Phantom®	¾ NMO	White Radome (Insert "B" for black)
TRA(B)17753	1775-1825 MHz 3 dB-MEG Phantom®	¾ NMO	White Radome (Insert "B" for black)
TRA(B)18503	1850-1970 MHz 3 dB-MEG Phantom®	¾ NMO	White Radome (Insert "B" for black)
TRA(B)20003	2000-2170 MHz 3 dB-MEG Phantom®	¾ NMO	White Radome (Insert "B" for black)
TRA(B)24003	2.4-2.5 GHz 3 dB-MEG Phantom®	¾ NMO	White Radome (Insert "B" for black)
TRA(B)58003	4.9-6.0 GHz 3 dB-MEG Phantom®	¾ NMO	White Radome (Insert "B" for black)
TRADCA	G - Drop ceiling antenna adaptor for P mount Phantom		
TRADCAGP	G - Drop ceiling antenna adaptor for P-mount Phantom w/ 6"x6"x0.016" ground plane		

Permanent Mounting Option: Please order by antenna model and insert letter "P" to indicate permanent mounting option (TRA8063P for white and TRAB8063P for black model).

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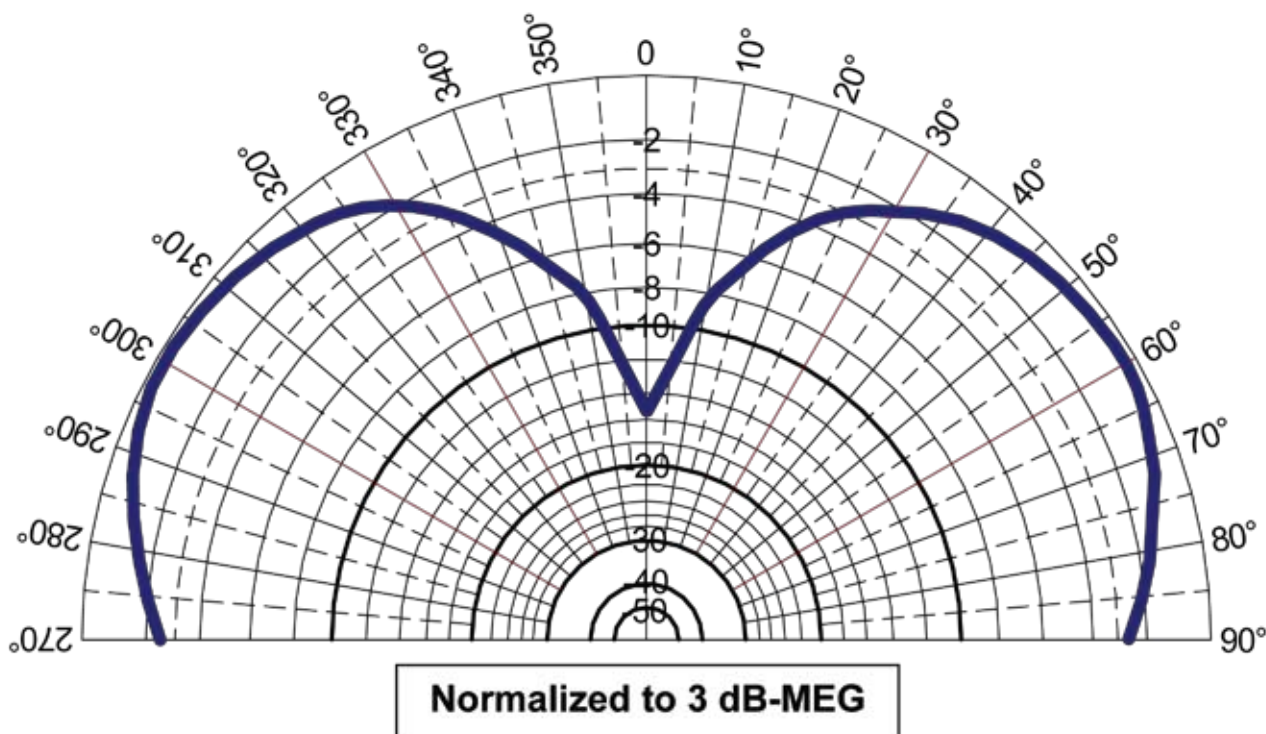
Antenna Radiation Pattern



Azimuthal Pattern (X, Y or E-Plane)

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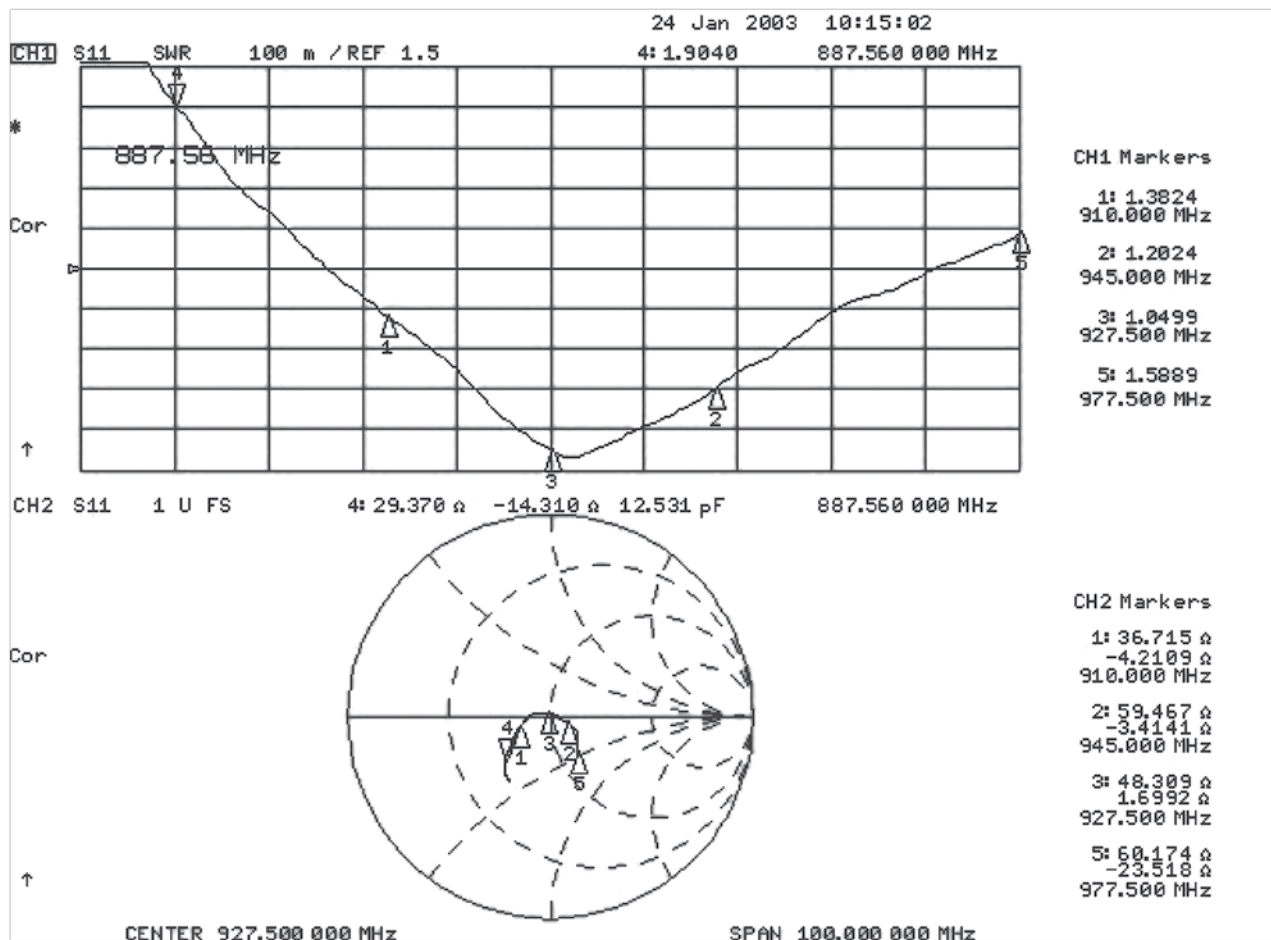
Antenna Radiation Pattern



Azimuthal Pattern (Z, Y or H-Plane)

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VSWR of TRA(B)8903



TRA(B)8903

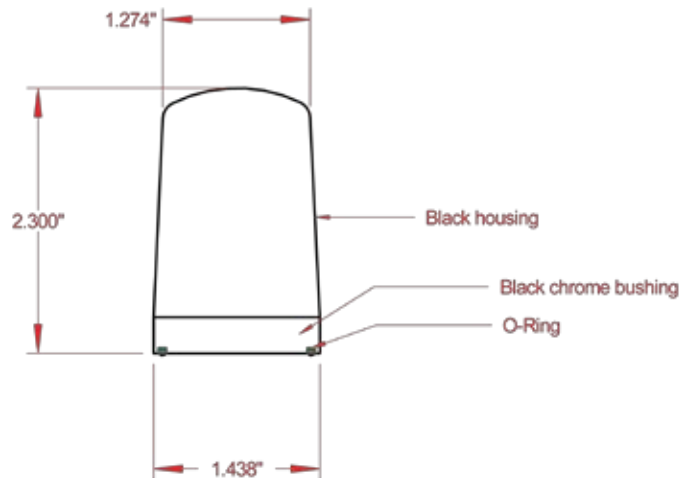
Typical VSWR sweeps on 2' x 2' ground plane
Primary Specification (BW = 70 MHz, VSWR < 2:1)

Marker 4: 1.9040 to 1 @ 887.560 MHz
Marker 5: 1.5889 to 1 @ 977.500 MHz
Marker 3: 1.0499 to 1 @ 927.500 MHz

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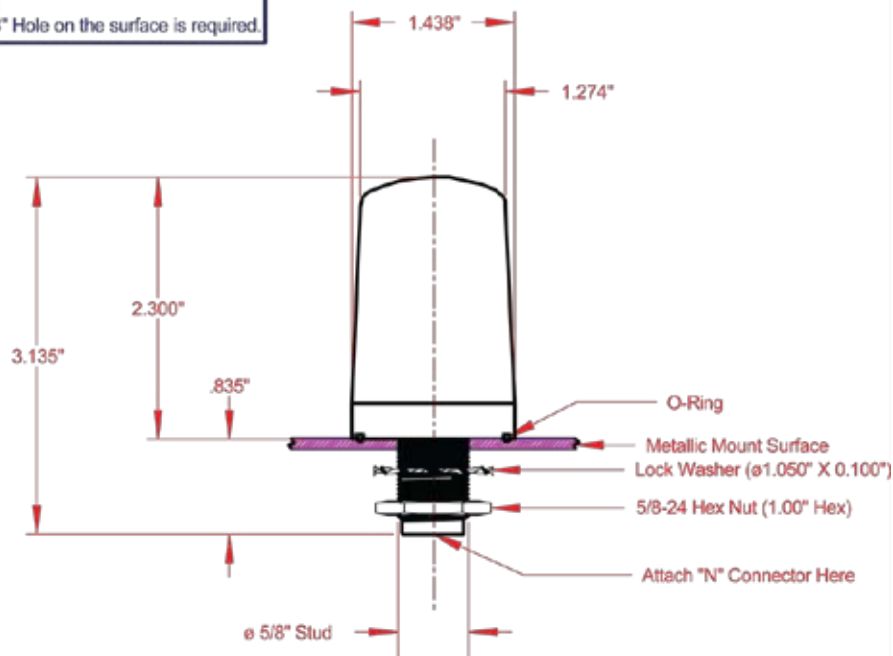
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Form Factors



NMO Models

Note:
1. 5/8" Hole on the surface is required.



P-Mount Models