



PHANTOM® 800 MHz - 5.8 GHz Antennas

Unique, patented Phantom® antennas are ideal for cell, GSM, PCE, WIFI, 802.11 and Bluetooth wireless applications. Measuring only 2.7" tall, the Phantom 800 MHz to 5.8 GHz antenna models' revolutionary design features a robust IP67 rated mechanical solution with frequency agility, low visibility, wide bandwidth and a low angle radiation pattern that is superior to traditional gain antennas in most applications, both outdoor and indoor. The industry standard NMO mounting socket mates with our 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. The Phantom® patented technology is beneficial when high performance is desired and extreme ruggedness and low profile is required.

FEATURES AND BENEFITS

- A low profile mechanically robust high-power solution
- Outperforms a 3-dB whip in many applications
- U.S. Patent Nos. 5,977,931 – 6,292,156 and 7,209,096

ELECTRICAL SPECIFICATIONS

Operating Frequency (MHz)	806-870/821-896/890-960/902-928/1850-1990/2400-2500/4900-6000
VSWR	< 2.1
Gain (dBi)	3
Max Power - Ambient 25°C (W)	100
Nominal Impedance (Ohms)	50
Polarization	Vertical
Pattern	Omnidirectional
Half-Power Beamwidth (Elevation° x Azimuth°)	130 x 360

MECHANICAL SPECIFICATIONS

Dimensions - diameter x height - mm (inches)	36.52 x 69.85 (1.438 x 2.75)
Weight - kg (lbs.)	0.078 (0.173)
Material	SABIC Lexan
Color	Black or White
Mounting Information	NMO (PN: MB8, MAB8) - Sold separately
Noise Suppressor	BlackHawk NS1535
1-35 VOLT, 15 Amp - Sold separately	1-35 VOLT, 15 Amp - Sold separately
Operating Temperature - °C (°F)	-40 to +85°C (-40 to +185°F)

CONFIGURATION

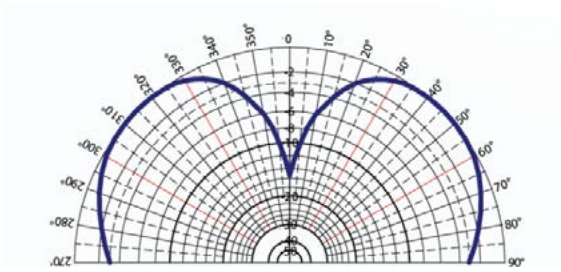
PART NUMBER	DESCRIPTION
TRA8063	806-870 MHz 3 dBi Phantom® ¾ NMO, White Radome
TRA8213	821-896 MHz 3 dBi Phantom® ¾ NMO, White Radome
TRA8903	890-960 MHz 3 dBi Phantom® ¾ NMO, White Radome
TRA9023	902-928 MHz 3 dBi Phantom® ¾ NMO, White Radome
TRA58003	4.9 - 6.0 GHz 3 dBi Phantom® ¾ NMO, White Radome
TRADCAGP	G - Drop ceiling antenna adaptor for P-mount Phantom w/ 6"x6"x0.016" ground plane

Note:

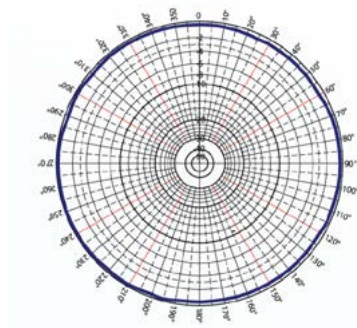
Add "B" to model number for black radome. Example: TRAB8063

Add "P" to model number for Permanent Mount. Example: TRA8063Px

ANTENNA PATTERNS



**Elevation Pattern (Y, Z, or H-plane)
Normalized to 3 Db-MEG**



**Azimuth Pattern (X,Y, or E-plane)
Normalized to 3 dB-MEG**

TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

te.com

TE, and TE connectivity (logo) are trademarks owned or licensed by the TE Connectivity Ltd. family of companies. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

TE Connectivity warrants to the original end user customer of its products that its products are free from defects in material and workmanship. Subject to conditions and limitations TE Connectivity will, at its option, either repair or replace any part of its products that prove defective because of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the TE Connectivity product is installed. Useful lifetime of the original end product may vary but is not warranted to exceed one (1) year from the original date of the end product purchase.

©2022 TE Connectivity. All Rights Reserved.

08/22 Original