

TRA(B)58003(P)

PHANTOM® Antennas 4.9 GHz - 6.0 GHz

Laird Technologies' unique patented Phantom® is a tough low-profile antenna for outdoor or indoor applications. Measuring only 2.3 inches exposed tall, the Phantom covers 4.9 GHz - 6.0 GHz. The antenna model's revolutionary design features field diversity. The industry standard NMO mounting socket mates with all Laird Technologies' magnetic, trunk lid, and hole mounts. A threaded permanent stud Type N connector 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, extreme ruggedness, and low profile are required.

FEATURES AND BENEFITS

- Mechanically robust for both Indoor/Outdoor applications
- Phantom® outperforms a 3-dB whip in many applications
- U.S. Patent numbers 5,977,931 – 6,292,156 and 7,209,096

ELECTRICAL SPECIFICATION	
VSWR – Avg	1.25:1
Gain – Typ (dBi)	5.0
Gain Horizon 30° - Max (dBi)	5.6
Nominal Impedance (Ohms)	50
Maximum Peak Power - Ambient 25°C (W)	100
Polarization	Vertical
Pattern	Omnidirectional
Half-power Beamwidth (elevation° x azimuth °)	30 x 360

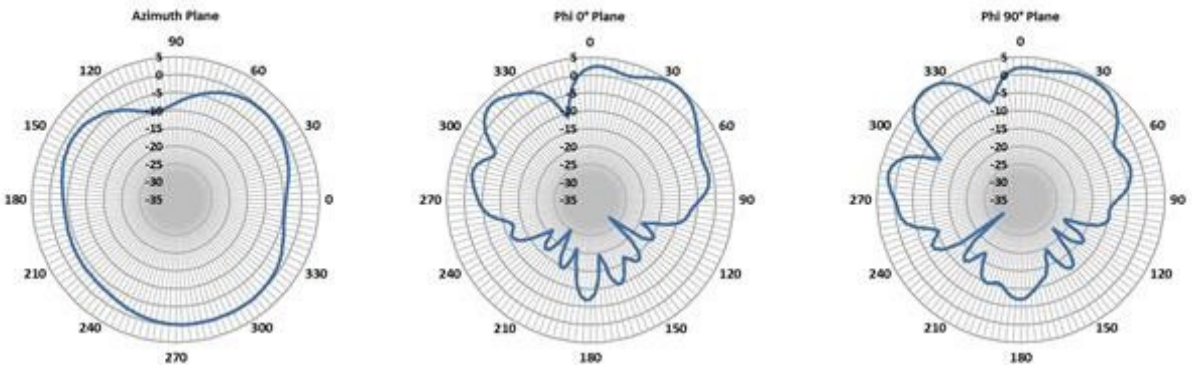
MECHANICAL SPECIFICATION	
Dimensions – diameter x height – mm (inches)	NMO: 36.53 (1.438') x 58.4 (2.3) Permanent Mount: 36.53 (1.438) x 80.3 (3.16) , Exposed: 36.53 (1.438')x 58.4 (2.3)
Weight – g (lbs.)	0.078 (0.173)
Radome Material	Lexan
Color	Black or white
Mounting Information	NMO socket (NMO mount is sold separately) or Type N Female – Permanent Mount (hardware included) Note: P-Mount requires a 5/8" hole for mounting.
Noise Suppressor	BlackHawk NS 1535 1-35 volt, 15 amp

CONFIGURATION

PART NUMBER	DESCRIPTION
TRA58003	4.9 – 6.0 GHz, 5 dBi, White, NMO
TRAB58003	4.9 – 6.0 GHz, 5 dBi, Black, NMO
TRA58003P	4.9 – 6.0 GHz, 5 dBi, White, N Female
TRAB58003P	4.9 – 6.0 GHz, 5 dBi, Black, N Female

- Add B to the model number for black radome (example: TRAB58003)
- Add P to the model number for the permanent mount option (example: TRA58003P)
- Customized models without the logo are also available.

RADIATION PATTERNS



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 Connectivity, TE Connectivity (logo) and Every Connection Counts are trademarks. 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 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 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 product is installed. Useful lifetime of the original end product may vary but is not to exceed five (5) years from the original date of the end product purchase.

©2021 TE Connectivity. All Rights Reserved.

12/21 Original