



# TRA(B)T1500

Phantom Antenna Frequency Tunable 150-168 MHz (field tunable starting at 150 MHz)

Our patented Phantom® is a rugged antenna for outdoor or indoor applications. The Phantom® revolutionary design features field diversity with both vertical and horizontal polarization components. This gives the antenna diversity, frequency agility, low visibility, wide bandwidth and a low angle radiation pattern that is superior to traditional gain antennas in most applications.

The industry standard NMO mounting socket mates with all Antenex® magnetic, trunk lid, and hole mounts. The Phantom® patented technology is beneficial when high performance is desired and ruggedness and low profile is required.

### **FEATURES AND BENEFITS**

• Easy installation with optional NMO mounts

UV-treated radome resists sun damage

### **APPLICATIONS**

- FirstNet/Public Safety
- Transportation
- Industrial and commercial communications

ELECTRICAL SPECIFICATIONS		
Model Name	TRA(B)T1500	
Operating Frequency (MHz)	150-168 MHz (field tunable starting at 150 MHz)	
Frequency Bandwidth (MHz)	2.0	
VSWR (dBi)	<2:1	
Return Loss (dB) - minimum	-10	
Gain (dBi)	Unity	
Elevation = 45°	-5	
Elevation = 90°	-11	
Nominal Impedance (Ohms)	50	
Max Power - Ambient 25°C (W)	60	
Polarization	Vertical	
Pattern	Omnidirectional	
Vertical Plane 3 dB Beamwidth	120°	
Tuning	Tunable coil with tuning key provided	

MECHANICAL SPECIFICATIONS		
Dimensions - W x H - mm (inches)	xx x xx (3½ x 3½)	
Weight - kg (lbs.)	Xx (0.25)	
Cable Type	None	
Finish	ABS	
Color	White or Black	
Mounting	4' x 4' Metallic Ground Plane	

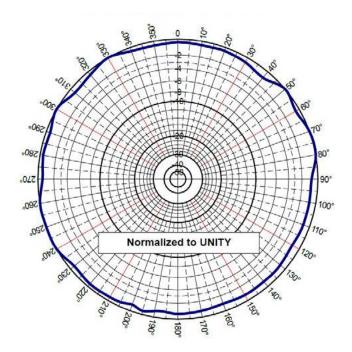
ENVIRONMENTAL SPECIFICATIONS		
Operating Environment (Indoor or Outdoor)	Indoor and Outdoor	
Operating Temperature - °C (°F)	-30 to +70°C (-22 to +158°F)	
Storage Temperature - °C (°F)	-30 to +70°C (-22 to +158°F)	
Lightning Protection	AC Ground	

## **CONFIGURATION**

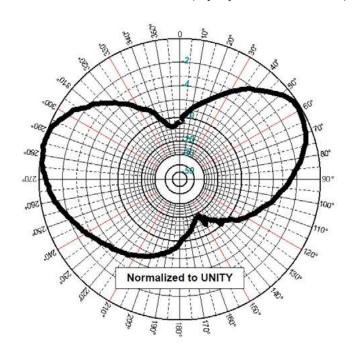
PART NUMBER	COLOR	CONNECTOR
TRAT1500	White	NMO
TRA(B)T1500	Black	NMO

# **RADIATION PATTERNS**

# REPRESENTATIVE AZIMUTH FIELD PATTERN



### **ELEVATION PATTERN (Z, Y, OR H-PLANE)**



#### TE TECHNICAL SUPPORT CENTER

USA: +1 (800) 522-6752 +1 (905) 475-6222 Canada: Mexico: +52 (0) 55-1106-0800 +54 (0) 11-4733-2200 Latin/S. America: Germany: +49 (0) 6251-133-1999 UK: +44 (0) 800-267666 +33 (0) 1-3420-8686 France: 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 warrantied to exceed one (1) year from the original date of the end product purchase.

©2022 TE Connectivity. All Rights Reserved.

08/22 Original

