



# 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 (3¼ x 3½)	
Weight - kg (lbs.)	Xx (0.25)	
Cable Type	None	
Finish	ABS	
Color	White or Black	
Mounting	4' x 4' Metallic Ground Plane	

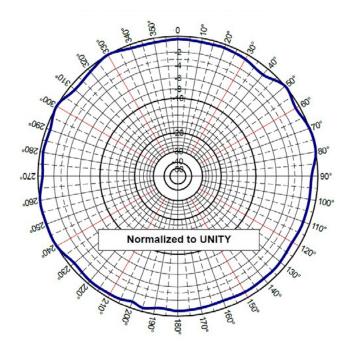
ENVIRONMENTAL SPECIFICATIONS		
Operating Environment (Indoor or Outdoor)	Indoor and Outdoor	
Operating Temperature - °C (°F)	-30 to +70°C (-22 to +158°F)	
Storage Temperature - °C (°F)	-30 to +70°C (-22 to +158°F)	
Lightning Protection	AC Ground	

## **CONFIGURATION**

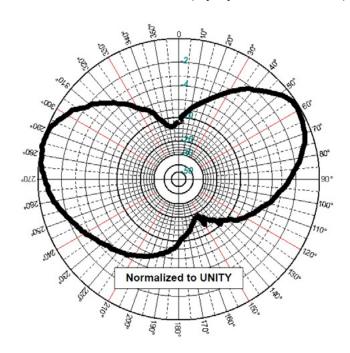
PART NUMBER	COLOR	CONNECTOR
TRAT1500	White	NMO
TRA(B)T1500	Black	NMO

## **RADIATION PATTERNS**

# REPRESENTATIVE AZIMUTH FIELD PATTERN



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



#### TE TECHNICAL SUPPORT CENTER

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08/22 Original

