



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

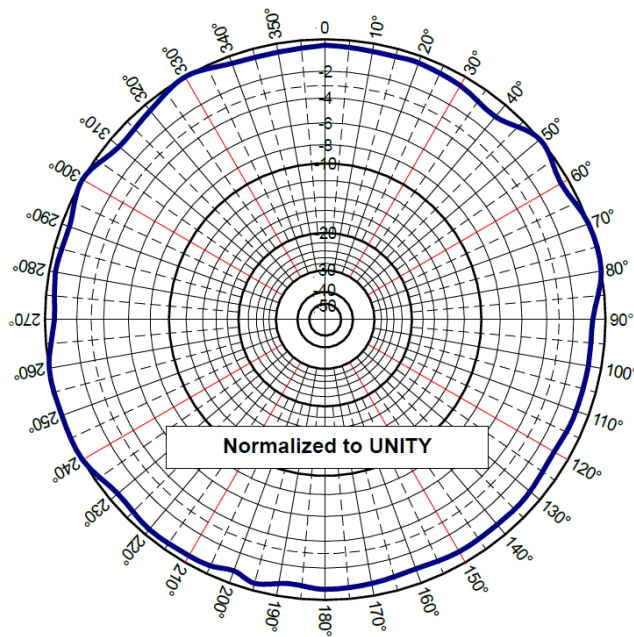
| | |
|---|------------------------------|
| Operating Environment (Indoor or Outdoor) | Indoor and Outdoor |
| Operating Temperature – °C (°F) | -30 to +70°C (-22 to +158°F) |
| Storage Temperature – °C (°F) | -30 to +70°C (-22 to +158°F) |
| Lightning Protection | AC Ground |

CONFIGURATION

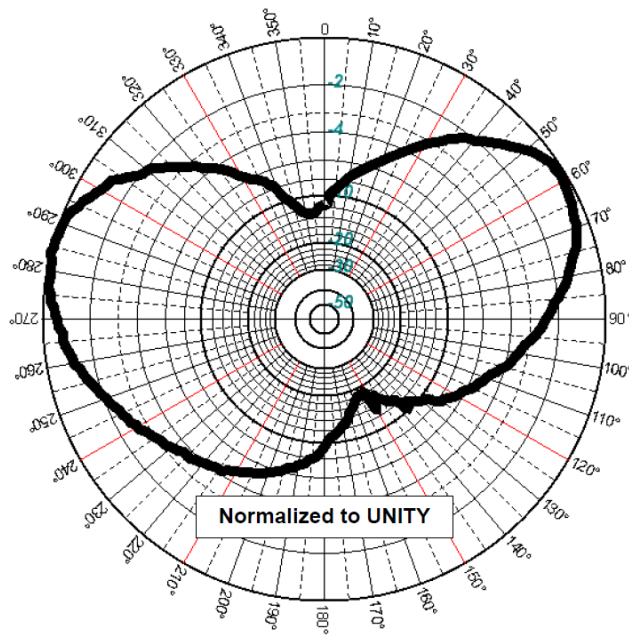
| PART NUMBER | COLOR | CONNECTOR |
|-------------|-------|-----------|
| TRAT1500 | White | NMO |
| TRA(B)T1500 | Black | NMO |

RADIATION PATTERNS

Representative Azimuth Field Pattern



Elevation Pattern (Z, Y, or H-plane)



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sales@lairdconnect.com
support@lairdconnect.com
www.lairdconnect.com

