

# Phantom<sup>®</sup> TRA4501S3CW - UHF Antenna

#### Smart Technology. Delivered.



## PHANTOM<sup>®</sup> UHF ANTENNA OUTPERFORMS CONVENTIONAL MOBILE ANTENNAS IN MANY APPLICATIONS

The Laird unique patented Phantom<sup>\*</sup> is a tough antenna for outdoor or indoor applications. Measuring only 3.4" tall, the Phantom UHF antenna's 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 TRA4501S3CW-001 is available with an SMA (SubMiniature version A) connector.

## FEATURES **FEATURES**

- True Field Diversity design ensures uninterrupted transmissions in urban canyons and rural drop off areas
- Phantom<sup>®</sup> outperforms a 3dB whip in many applications
- U.S. Patent Nos. 5,977,931 6,292,156 and 7,209,096

#### **SPECIFICATION**

#### MARKETS

- Public safety
- Transportation
- Utility
- Military mobile
- Fixed radio applications

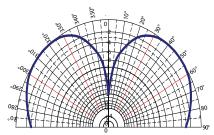
ELECTRICIAL	
VSWR	< 1.5:1 @ 10 MHz < 2.0:1 @ 20 MHz
Nominal Gain	3 dB MEG
Maximum Power	100 W
Nominal Impedance	50 Ω
Polarization	Vertical & Horizontal
Pattern	Omnidirectional
Half-Power Beamwidth (Elevation° x Azimuth°)	146° x 360°
Coaxial Cable & Type	Pigtail
Termination	SMA
Noise Suppressor	BlackHawk NS1535 1-35 VOLT, 15 Amp Noise Suppessor (Sold Separately)

MECHANICAL	
Height (initially)	3½" *
Diameter	1.438″
Rated Wind Velocity	125mph (210 kph)
Rated Wind Velocity (with 0.5" radial ice)	85mph (137 kph)
Lateral Thrust @ 125mph Wind Velocity	57 lbs. (26kg)
Wind Resistance in Sq. Feet	0.0356 Sq. ft.
Material	ABS
Mounting Information:	Permanent Mount
* Add .835" for Permanent Mount opt	ion

### **MODEL AND ORDERING INFORMATION**

MODEL	DESCRIPTION
TRA4501S3CW	450-470 MHz 3 dB-MEG Phantom SMA, P-Mount ,Black Radome

## **ANTENNA PATTERNS**



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

Azimuth Pattern (X,Y, or E-plane)

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