



PHANTOM[®] UHF ANTENNA OUTPERFORMS CONVENTIONAL MOBILE ANTENNAS IN MANY APPLICATIONS

Laird's unique patented Phantom[®] is a tough antenna for outdoor or indoor applications. Measuring only 3.4" tall, the Phantom UHF antenna's revolutionary design features vertical polarization components. The Phantom[®] provides 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 Laird magnetic, trunk lid, and hole mounts. A threaded permanent stud 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 is desired and extreme ruggedness and low profile is required.

FEATURES

- Phantom[®] outperforms a 3dB whip in many applications
- U.S. Patent Nos. 5,977,931 – 6,292,156 and 7,209,096

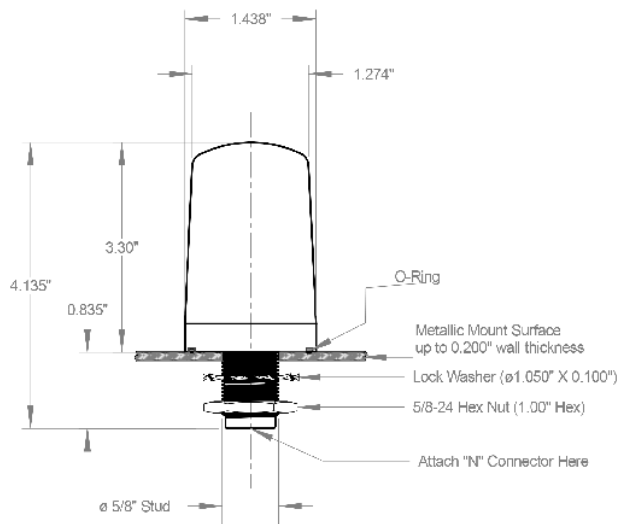
MARKETS

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

SPECIFICATIONS

ELECTRICAL	
VSWR (Measured on 2' x 2' GP)	< 1.5:1 @ 10 MHz < 2.0:1 @ 20 MHz
Peak Gain	3 dBi
Maximum Power	100 W
Nominal Impedance	50 Ω
Polarization	Vertical
Pattern	Omnidirectional
Half-Power Beamwidth (Elevation° x Azimuth°)	146° x 360°
Coaxial Cable Length & Type	None
Terminations	NMO
Noise Suppressor	BlackHawk NS1535 1-35 VOLT, 15 Amp Noise Suppressor (Sold Separately)

FORM FACTOR DRAWING



SPECIFICATIONS

MECHANICAL

Height (initially)	3½" *
Diameter	1.438"
Weight	0.21 lbs.
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	NMO or Permanent Mountable

* Add .835" for Permanent Mount option

Permanent Mounting Option:

Please order by antenna model and insert letter "P" to indicate permanent mounting option (TRA4503P).

MODEL AND ORDERING INFORMATION

MODEL	DESCRIPTION
TRA3003	300-305 MHz 3 dBi Phantom [®] ¾ NMO, White Radome
TRAB3003	300-305 MHz 3 dBi Phantom [®] ¾ NMO, Black Radome
TRA3803	380-400 MHz 3 dBi Phantom [®] ¾ NMO, White Radome
TRAB3803	380-400 MHz 3 dBi Phantom [®] ¾ NMO, Black Radome
TRA4063	406-425 MHz 3 dBi Phantom [®] ¾ NMO, White Radome
TRAB4063	406-425 MHz 3 dBi Phantom [®] ¾ NMO, Black Radome
TRA4103	410-430 MHz 3 dBi Phantom [®] ¾ NMO, White Radome
TRAB4103	410-430 MHz 3 dBi Phantom [®] ¾ NMO, Black Radome
TRA4303	430-450 MHz 3 dBi Phantom [®] ¾ NMO, White Radome
TRAB4303	430-450 MHz 3 dBi Phantom [®] ¾ NMO, Black Radome
TRA4503	450-470 MHz 3 dBi Phantom [®] ¾ NMO, White Radome
TRAB4503	450-470 MHz 3 dBi Phantom [®] ¾ NMO, Black Radome
TRA4703	470-490 MHz 3 dBi Phantom [®] ¾ NMO, White Radome
TRAB4703	470-490 MHz 3 dBi Phantom [®] ¾ NMO, Black Radome
TRA4903	490-512 MHz 3 dBi Phantom [®] ¾ NMO, White Radome
TRAB4903	490-512 MHz 3 dBi Phantom [®] ¾ NMO, Black Radome
Sealtube3	Heat shrink tubing 3"x1" DIA Elite install (use for jaw protector on installation wrench)

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