



Smart Technology. Delivered.™

Phantom Technology Antenna

142-160 MHz

TRAT1420



PHANTOM TECHNOLOGY ANTENNA TRAT1420 142-160 MHz

Laird's unique patented Phantom® is a tough antenna for outdoor or indoor applications. Measuring only 3.5" tall, this mechanically robust design has a low angle radiation pattern that is superior to traditional gain antennas in most applications and can therefore be used in both ceiling mount and surface mount installations.

The industry standard NMO mounting socket mates with all Laird's magnetic, Trunk lids, and hole mounts. The Phantom® patented technology is beneficial when high performance, a low profile and extreme ruggedness are desired.

FEATURES

- Mechanically robust for both Indoor/Outdoor applications.
- Phantom out-performs a 3 dBi whip in many applications
- Compact/Low Profile VHF Antenna

BENEFITS

- Public Safety
- Transportation
- Unity
- Military Mobile
- Fixed Radio Applications

SPECIFICATIONS

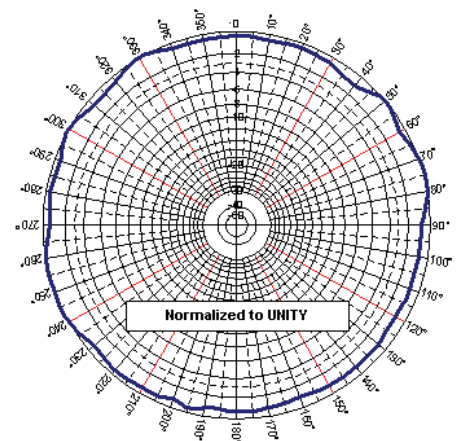
ELECTRICAL	PERFORMANCE
Frequency Range	142-160 MHz, Field Tunable
Frequency Bandwidth	2.0 MHz
VSWR	<2.0:1
Return Loss	-10 dB min
Nominal Gain	Unity -11 dBi (elevation - 90°)
Maximum Power	60 W
Nominal Impedance	50Ω
Polarization	Vertically Polarized
Pattern	Omnidirectional
Vertical Beamwidth	80°
Lightning Protection	AC Ground
Cable	None
Termination	NMO
Tuning	Tunable Coil with Turning Key Provided

MECHANICAL	PERFORMANCE
Size	Width - 3-1/4"
Height	3-1/2"
Weight	0.25 lbs
Finish	GE X-17 ABS
Color	White (Black also available)

MOUNTING

Designed to	4'x4' metallic ground plane Mobile applications
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ANTENNA RADIATION PATTERN



Representative Azimuth Field Pattern

ANT-DS-TRAT1420 0816

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