

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

MARKETS

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

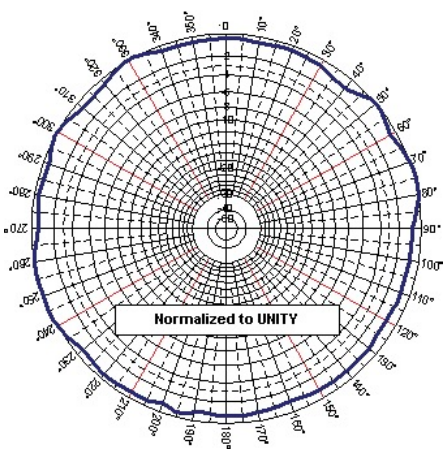
SPECIFICATIONS

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

ANTENNA RADIATION PATTERN



Representative Azimuth Field Pattern

TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

te.com

TE Connectivity, TE Connectivity (logo) and Every Connection Counts are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

©2021 TE Connectivity. All Rights Reserved.

11/21 Original