

# Laird

# Phantom<sup>®</sup> Antennas TRA(B)24/49003(P)

## DUAL-BAND PHANTOM<sup>®</sup> ANTENNA IS IDEAL FOR WLAN AND 4.9 GHZ PUBLIC SAFETY APPLICATIONS

Laird Technologies' unique patented Phantom<sup>®</sup> dual-band antenna operates simultaneously at 2.4 GHz and 4.9 GHz and is a tough antenna for outdoor or indoor applications. The revolutionary design measures only 2.3" and features both vertical and horizontal polarization. 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 Laird Technologies' 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.

## FEATURES **VROHS**

- Cross-polarization 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

#### MARKETS

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

Americas: +1.847 839.6907 IAS-AmericasEastSales@lairdtech.com

Europe: +44.1628.858941 IAS-EUSales@lairdtech.com

Asia: +86.21.5855.0827.127 IAS-AsiaSales@lairdtech.com

www.lairdtech.com



# Phantom<sup>®</sup> Antennas TRA(B)24/49003(P)

# **SPECIFICATIONS**

ELECTRICAL	
Frequency Band	ISM, 2.4-2.5 GHz / 4.9-5.85 GHz
Frequency Range	2400 MHz
(Test Frequency at Peak)	4900 MHz
Peak Gain (dBi)	0.7
Azimuth Cut, Phi=0°	0.9
Peak Gain (dBi)	0.6
Elevation Cut, Phi=90°	5.7
Elevation Beamwidth	30°
at Half-Power	65°
Azimuth Beamwidth	130°
at Half-Power	230°

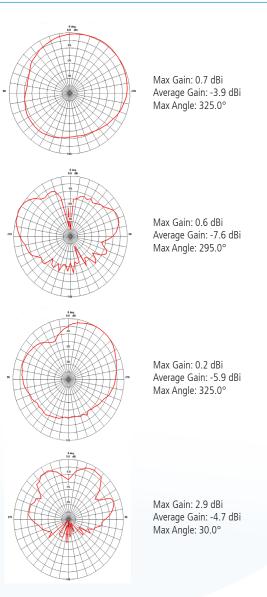
### MECHANICAL

Antenna Dimensions	1.44"(36.5 mm)dia x 2.3"(58.4 mm)H
Weight (Mass)	0.25 lb (113.4 g)

TECHNICAL DATA	
Pattern	Omni-Directional
Maximum Power	100W
Nominal Impedance	50 ohm
Polarization	Vertical and Horizontal
VSWR	<2:1 (includes 6ft of ATX195) <3:1 (no coaxial cable)
Termination	NMO and Permanent Mount w/ N Female Connector
F/B Ratio	NA
Mounting Hardware includes	NA (NMO mount sold separately)
Coaxial Cable Type & Length	None
Lightning Protection	NA
Operating Temperature	-40°C to +85°C

## **MODEL AND ORDERING INFORMATION**

MODEL	DESCRIPTION
TRA24/49003	NMO Mount, White Radome
TRAB24/49003	NMO Mount, Black Radome
TRA24/49003P	P-Mount, White Radome
TRAB24/49003P	P-Mount, Black Radome



Americas: +1.847 839.6907 IAS-AmericasEastSales@lairdtech.com

Europe: +44.1628.858941 IAS-EUSales@lairdtech.com

Asia: +86.21.5855.0827.127 IAS-AsiaSales@lairdtech.com

www.lairdtech.com

#### ANT-DS-TRA24(B)-49003(P)-1114

Any information furnished by Laird Inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird materials rests with the end user, since Laird and its agents cannot be aware of all potential uses. Laird makes no warranties as to the fitness, merchantability or suitability of any Laird materials or products for any specific or general uses. Laird shall not be liable for incidential or consequential damaged of any kind. All Laird products are sold pursuant to the Laird Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. @ Copyright 2014 Laird Inc. All Rights Reserved. Taird, Laird Technologies, the Laird Logo, and other marks are trade marks or registered trade marks or laird inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird or any third party intellectual property rights.

# **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Laird Connectivity: TRAB24/49003 TRAB24/49003P TRA24/49003P