



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





DUAL-BAND PHANTOM[®] ANTENNA IS IDEAL FOR WLAN AND 4.9 GHZ PUBLIC SAFETY APPLICATIONS

Laird Technologies' unique patented Phantom[®] 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

- Cross-polarization design ensures uninterrupted transmissions in urban canyons and rural drop-off areas
- 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

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

SPECIFICATIONS

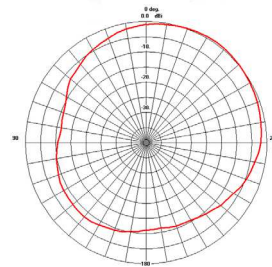
ELECTRICAL	
Frequency Band	ISM, 2.4-2.5 GHz / 4.9-5.85 GHz
Frequency Range (Test Frequency at Peak)	2400 MHz 4900 MHz
Peak Gain (dBi) Azimuth Cut, Phi=0°	0.7 0.9
Peak Gain (dBi) Elevation Cut, Phi=90°	0.6 5.7
Elevation Beamwidth at Half-Power	30° 65°
Azimuth Beamwidth at Half-Power	130° 230°

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

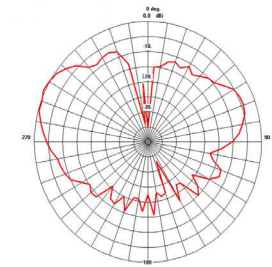
TECHNICAL DATA	
Pattern	Omni-Directional
Maximum Power	100W
Nominal Impedance	50 ohm
Polarization	Vertical and Horizontal
VSWR	<2:1 (includes 6ft of ATX195) <3:1 (no coaxial cable)
Termination	NMO and Permanent Mount w/ N Female Connector
F/B Ratio	NA
Mounting Hardware includes	NA (NMO mount sold separately)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

MODEL AND ORDERING INFORMATION

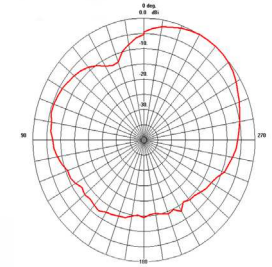
MODEL	DESCRIPTION
TRA24/49003	NMO Mount, White Radome
TRAB24/49003	NMO Mount, Black Radome
TRA24/49003P	P-Mount, White Radome
TRAB24/49003P	P-Mount, Black Radome



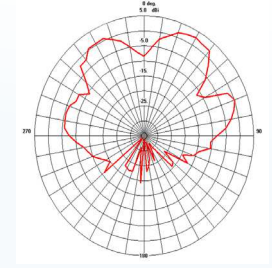
Max Gain: 0.7 dBi
Average Gain: -3.9 dBi
Max Angle: 325.0°



Max Gain: 0.6 dBi
Average Gain: -7.6 dBi
Max Angle: 295.0°



Max Gain: 0.2 dBi
Average Gain: -5.9 dBi
Max Angle: 325.0°



Max Gain: 2.9 dBi
Average Gain: -4.7 dBi
Max Angle: 30.0°

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 incidental or consequential damages 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. Laird, Laird Technologies, the Laird Logo, and other marks are trade marks or registered trade marks of 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.