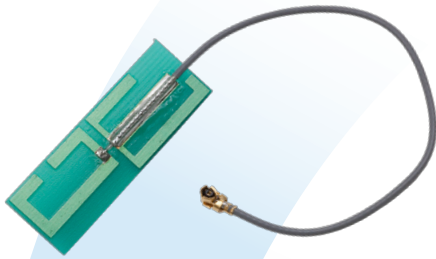


# Internal Wireless Device Antenna Mini-Nanoblade



## MINI-NANOBLADE INTERNAL EMBEDDED ANTENNA

The evolution of technology has brought the need to communicate everywhere and at all times without being confined to one space. Laird Technologies' internal wireless device antennas feature wide bandwidth to enhance the performance and application of portable wireless devices based on standards such as 802.11 and Bluetooth®. The antennas are specifically designed to be embedded inside devices for aesthetically pleasing integration with high durability.

### FEATURES

- Covers 2.4 to 2.5 GHz for 802.11b, and 4.9 to 6 GHz for 802.11a and all US, European, and Japanese WLAN applications
- Coaxial cable pigtail with various connector choices
- Omnidirectional patterns at all frequencies with increased gain in upper bands for optimal coverage
- Conformance to European RoHS Directive 2002/95/EC

### MARKETS

- Bluetooth® devices
- IEEE 802.11 devices

### ELECTRICAL SPECIFICATIONS

Frequency	2.4 - 2.5 GHz, 4.9 - 6 GHz
Gain	2.0-2.5 dBi (2.4-2.5 GHz), 2.5-4.8 dBi (4.9-5.875 GHz)
Polarization	Vertical, Omnidirectional
Nominal Impedance	50 ohms
VSWR	< 2.:1 max across all bands
Size	1.42" x 0.475"

### CABLE AND CONNECTORS

MODEL NUMBER	PART NUMBER	CABLE	CONNECTOR	MOUNT TAPE
MINIBLADE-IP03T	MAF94149	80mm, Ø 1.13mm	IPEX	YES
MINIBLADE-IP03	MAF94264	80mm, Ø 1.13mm	IPEX	NO
MINIBLADE-FL03	MAF94265	80mm, Ø 1.13mm	N/A	NO
MINIBLADE-IP05T	MAF94383	125mm, Ø 1.13mm	IPEX	YES

## global solutions: local support.™

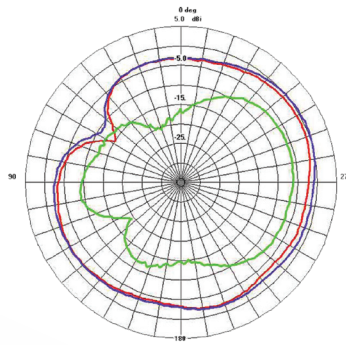
Americas: +1.847.839.6907  
IAS-AmericasEastSales@lairdtech.com

Europe: +1.32.80.7866.12  
IAS-EUSales@lairdtech.com

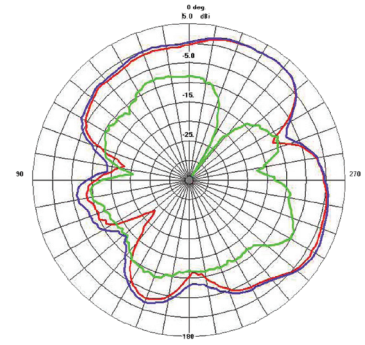
Asia: +1.65.6.243.8022  
IAS-AsiaSales@lairdtech.com

[www.lairdtech.com](http://www.lairdtech.com)

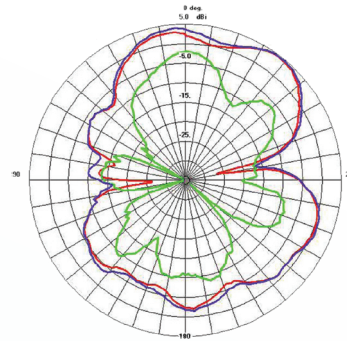
## ANTENNA PATTERNS



2.4 GHz

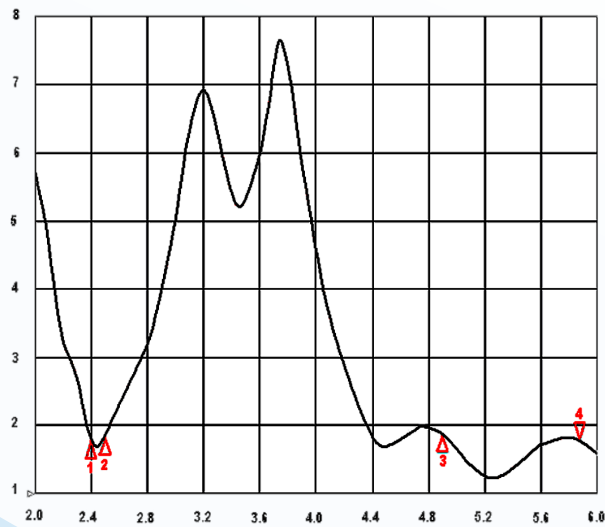


4.9 GHz



5.875 GHz

## VSWR



CH1 Markers

1:	1.7816
2:	2.40000 GHz
3:	1.8679
4:	1.7820
	5.87500 GHz

### ANT-DS-MINI-NANOBLADE 1209

Any information furnished by Laird Technologies, 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 Technologies materials rests with the end user, since Laird Technologies and its agents cannot be aware of all potential uses. Laird Technologies makes no warranties as to the fitness, merchantability or suitability of any Laird Technologies materials or products for any specific or general uses. Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies products are sold pursuant to the Laird Technologies' Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2009 Laird Technologies, Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Technologies Logo, and other marks are trademarks or registered trademarks of Laird Technologies, 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 Technologies or any third party intellectual property rights.