



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

- Versatile and easy to use antenna for 2.4 to 2.5 GHz Bluetooth® and IEEE 802.11 devices
- Designed for easy connection to radio cards
- Utilizes patented PCB Microsphere technology
- Has a ground plane incorporated into the resonator structure, therefore no additional ground plane is required to radiate efficiently
- Conformance to European RoHS Directive 2002/95/EC

## MARKETS

- 802.11

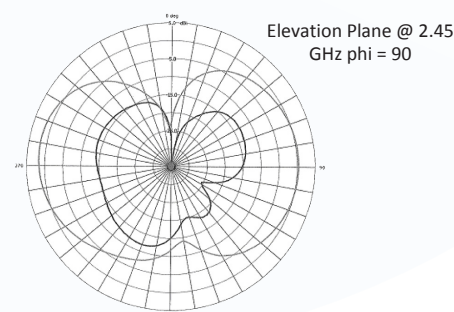
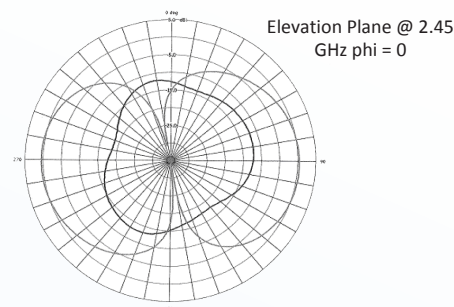
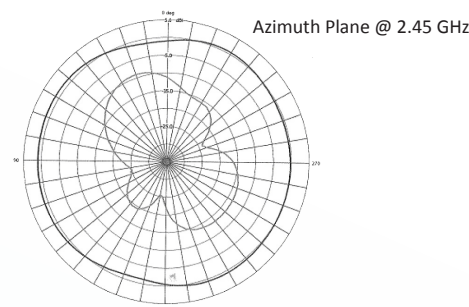
## SPECIFICATIONS

| PARAMETER              |                           |
|------------------------|---------------------------|
| Frequency range        | 2.4-2.5 GHz               |
| Gain                   | 2 dBi                     |
| Polarization           | Linear                    |
| Impedance              | 50 ohms                   |
| VSWR                   | <2.5:1                    |
| Dimensions (L x W x H) | 1.88 in x .5 in x .032 in |
| Weight                 | 2 g                       |

## CABLE & CONNECTOR

| MODEL         | PART #   | CABLE                | CONNECTOR   |
|---------------|----------|----------------------|-------------|
| NanoBlue-IP04 | MAF94045 | 100 mm,<br>ø 1.13 mm | IPEX MHF    |
| NanoBlue-FL04 | MAF94102 | 100mm,<br>RG178      | Flying lead |

## ANTENNA PATTERNS



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[MAF94102](#) [MAF94045](#)