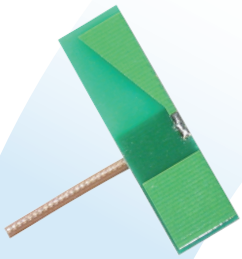
Smart Technology. Delivered.

Embedded Internal Antenna
NanoBlue



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 ✓RoHS

- 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

- WiMAX

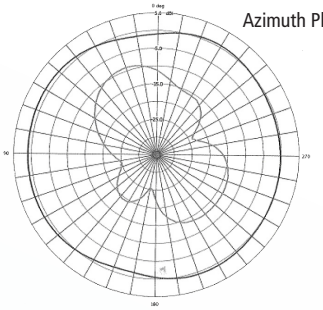
SPECIFICATIONS

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

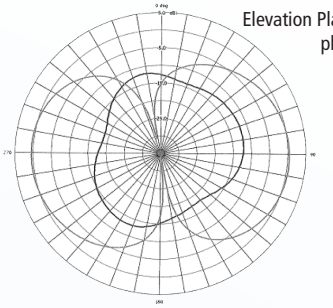
CABLE & CONNECTOR

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

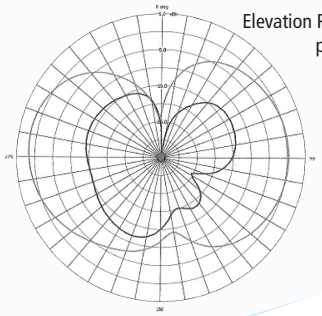
ANTENNA PATTERNS



Azimuth Plane @ 2.45 GHz



Elevation Plane @ 2.45 GHz
phi = 0



Elevation Plane @ 2.45 GHz
phi = 90

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