



## 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. Lairds' 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
- WiMAX

### ELECTRICAL SPECIFICATIONS

Frequency	2.4 - 2.5 GHz, 4.9 - 6 GHz
Gain	2 dBi (2.4-2.5 GHz), 3.9 dBi (5.15-5.35 GHz), 4 dBi (5.6 GHz)
Polarization	Vertical, Omnidirectional
Nominal Impedance	50 ohms
VSWR	2:1 max across all bands
Size	2 in x 0.65 in

### CABLE AND CONNECTORS

MODEL NUMBER	PART NUMBER	CABLE	CONNECTOR
NanoBlade-MMCX4	CAF94504	100mm, rg-178	RA-MMCX
NanoBlade-IP04	CAF94505	100mm, $\varnothing$ 1.13mm	IPEX MHF

### ELEVATION PATTERNS, PHI=0

