



The evolution of technology has brought the need to communicate everywhere and at all times without being confined to one space. Our 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 AND BENEFITS

- Versatile, easy-to-use for 2.4 to 2.5 GHz Bluetooth® and IEEE 802.11 devices
- Designed for an easy connection to radio cards
- Uses patented PCB Microsphere technology
- Has a ground plane incorporated into the resonator structure – no additional ground plane is required to radiate efficiently

### ELECTRICAL SPECIFICATIONS

|                           |               |
|---------------------------|---------------|
| Operating Frequency (MHz) | 2.4 – 2.5 GHz |
| VSWR – Max                | <2.5:1        |
| Gain (dBi)                | 2             |
| Nominal Impedance (Ohms)  | 50            |
| Polarization              | Linear        |

### MECHANICAL SPECIFICATIONS

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| Dimensions – mm (in.) | 44.45 x 12.7 x 0.81 mm (1.75 x 0.5 x 0.032 in.) |
| Weight – g (oz.)      | 2 g (0.071 oz.)                                 |

### CONFIGURATION

| PART NUMBER      | CABLE LENGTH      | CONNECTOR        |
|------------------|-------------------|------------------|
| <b>MAF94045</b>  | 100 mm, Ø 1.13 mm | IPEX MHF         |
| MAF94102         | 100 mm, RG178     | Flying Lead      |
| MAF95096         | 100 mm, RG178     | Right Angle MMCX |
| EBL2400A1-10MH4L | 100 mm, Ø 1.13 mm | MHF4             |
| EBL2400R1-20MHF4 | 200 mm, Ø 1.13 mm | MHF4             |

**Note:** Specifications are based on the 100mm cable length, standard antenna version with MHF1 / U.FL connector. Varying the cable length or type or connector will cause variations in these antenna specifications.

### ANTENNA PATTERNS

