Chip Antenna Selection Guide

More information regarding our antenna layout review and tuning services

### Chip Antenna Selection

#### Bluetooth/Wi-Fi/Zigbee
2.4 GHz
- **Small**
  - End Mount / Corner mount
    - **2450AT14A100**
      - Ultra-low profile, smallest corner mount*
  - **2450AT18A100**
    - Good for capacitively-loaded designs like over-molded applications*
  - **2450AT18B100**
    - Great small monopole antenna*
  - **2450AT42A100**
    - Exceptional gain for medium size*
  - **2450AT43B100**
    - Larger size, higher gain*
  - **2450AT45A100**
    - Wide Band*
  - **2450AT45A100**
    - High gain, largest antenna*

#### Wi-Fi 5.5 GHz
- **Large**
  - End Mount / Corner mount
    - **2450AT18A100**
      - Small form factor, wideband*
  - **2450AT18A100**
    - Small form factor, wideband*
  - **2450AT42E0100**
    - Mounts directly above GND/metal*

#### 2.4/5.5 GHz (Dual-band)
- **Small**
  - End Mount / Corner mount
    - **2450AD46A5400**
      - Large, dual-feed dual-band antenna*
  - **2450AD47AD2450**
    - 900MHz ISM + 2.4GHz Bluetooth/WiFi Bands*

#### GPS / 2.4GHz
- **Small**
  - End Mount / Corner mount
    - **2450AD47A1590**
      - Unique dual-band antenna for 2.4 GHz/GPS*

### General Chip Antenna Mounting and Tuning Guidelines

**Circular PCB Mounting**

**PCB Corner Mounting**

**PCB Center-edge Mounting**

**PCB End Mounting**

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Have questions? Feel free to contact our team at: [www.johansontechnology.com/ask-a-question](http://www.johansontechnology.com/ask-a-question)

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