

WiFi Antennas

2.4/5.8G PCB Antenna

The PCB & FPC WiFi antenna range offers customers a reliable and easy drop in solution for integrated WiFi communications.

The Antennas can be customized to your specifications for cable length and connector type. Bel has diverse communications experience of over 20 years and can also provide a fully integrated design solution, utilizing our portfolio of products.

Antennas come with an easy peel adhesive making it a simple solution for mounting to a case or existing PCB.



Key Features & Benefits

- 40 x 8 mm Antenna
- Connector types can be customized
- Cable lengths can be customized
- Ideal for Industrial applications
- 50 Ω Impedance
- 10 N of pull force
- Easy connection to existing PCBs
- Adhesive provides easy case mounting
- Provides robust reliability

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MODELS

| PART NUMBER | TEMP RANGE | CONNECTION | MARKET |
|--------------|------------------|---------------------|-----------|
| 0804-WFAN-02 | -40 °C to +80 °C | IPEX (Customizable) | Worldwide |

ELECTRICAL CHARACTERISTICS

| SERIES OF MEASURE | VALUES |
|-------------------|---------------------------------|
| Frequency | 2400 – 2483.5 MHz |
| | 4900 – 5875 MHz |
| V.S.W.R | 2400 – 2483.5 MHz < 1.9 |
| | 4900 – 5875 MHz < 1.9 |
| Antenna Gain | 2400 – 2483.5 MHz 2.0 ± 1.7 dBi |
| | 4900 – 5875 MHz 2.0 ± 1.7 dBi |
| | 1710 – 2700 MHz 3.0 ± 1.7 dBi |
| Polarization | Linear |
| Impedance | 50 Ω |

MATERIAL & MECHANICAL INFORMATION

| ITEM | DESCRIPTION |
|----------------------|----------------|
| Material of Radiator | PCB |
| Material of Plastic | FR-4 |
| Cable Type | OD1.13 mm |
| Connector Type | Mini Connector |
| Connector Pull Test | ≥ 1 kg |

ENVIRONMENTAL

| ITEM | DESCRIPTION |
|-------------------------|------------------|
| Operational Temperature | -40 °C to +80 °C |
| Storage Temperature | -40 °C to +85 °C |

GAINS & EFFICIENCY

| FREQUENCY | E TOTAL. dB | EFFICIENCY % |
|------------|-------------|--------------|
| 2400 MHz | 1.85 | 73 |
| 2440 MHz | 2.19 | 75 |
| 2483.5 MHz | 2.02 | 71 |
| 4900 MHz | 4.80 | 68 |
| 5400 MHz | 4.33 | 63 |
| 5875 MHz | 4.33 | 62 |

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MECHANICAL

