

# WiFi Antennas

## 4G LTE 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

- 66 x 13 mm Antenna
- Connector types can be customized
- Cable lengths can be customized
- Ideal for Industrial applications
- 50  $\Omega$  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-01 | -40 °C to +80 °C | IPEX (Customizable) | Worldwide |

### ELECTRICAL CHARACTERISTICS

| SERIES OF MEASURE | VALUES                                                       |
|-------------------|--------------------------------------------------------------|
| Frequency         | 704 – 960 MHz<br>1710 – 2700 MHz                             |
| V.S.W.R           | 704 – 960 MHz < 1.9<br>1710 – 2700 MHz < 1.9                 |
| Antenna Gain      | 704 – 960 MHz 3.0 ± 1.7 dBi<br>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 % |
|-----------|-------------|--------------|
| 780 MHz   | 4.15        | 71           |
| 805 MHz   | 4.42        | 62           |
| 930 MHz   | 5.18        | 48           |
| 1910 MHz  | 6.11        | 55           |
| 2110 MHz  | 6.86        | 50           |
| 2700 MHz  | 5.53        | 54           |

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### MECHANICAL

