

# 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  $\Omega$  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-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

