

### Ultra Long Range Tag Antenna Info

The Bluetooth antenna incorporates a rectangular micro-strip design for WIFI right-hand circular polarization wave reception, featuring low RL, low Axial Ratio, but high gain. The max antenna gain is 3.5 dBi with a typical gain of 3 dBi. It is manufactured by JWC Technologies and has part number JWF2400R25C4.

Below are the electrical characteristics and the size of the antenna.

	Item	Specifications	Post Environmental Tolerance
1	Range of Receiving Frequency(Mhz)	2450	±5
2	Center Frequency (Mhz) (with A GND Plane)	2450	±5
3	Band With (Mhz) (Return loss ≤-10dB)	≥100	---
4	V.S.W.R(in Center Frequency)	≤1.5	---
5	Gain(Zenith)	3dB(typical), 3.5dB (max)	---
6	Axial Ratio	3.5dB max	---
7	Polarization	Right-Handed Circular	---
8	Impedance (Ω)	50	---
9	Frequency Temperature Coefficient (ppm/°C)	0±10	---

