
Specification of Bluetooth & WIFI antenna

Model: BW5030

Vendor Name: ShenZhen Aihui Technology Co., Ltd

Spectrum Detector:

PK

Test Date :

June 8, 2024

Test By:

Andy

Temperature :

28°C

Test Result:

PASS

Humidity :

55 %

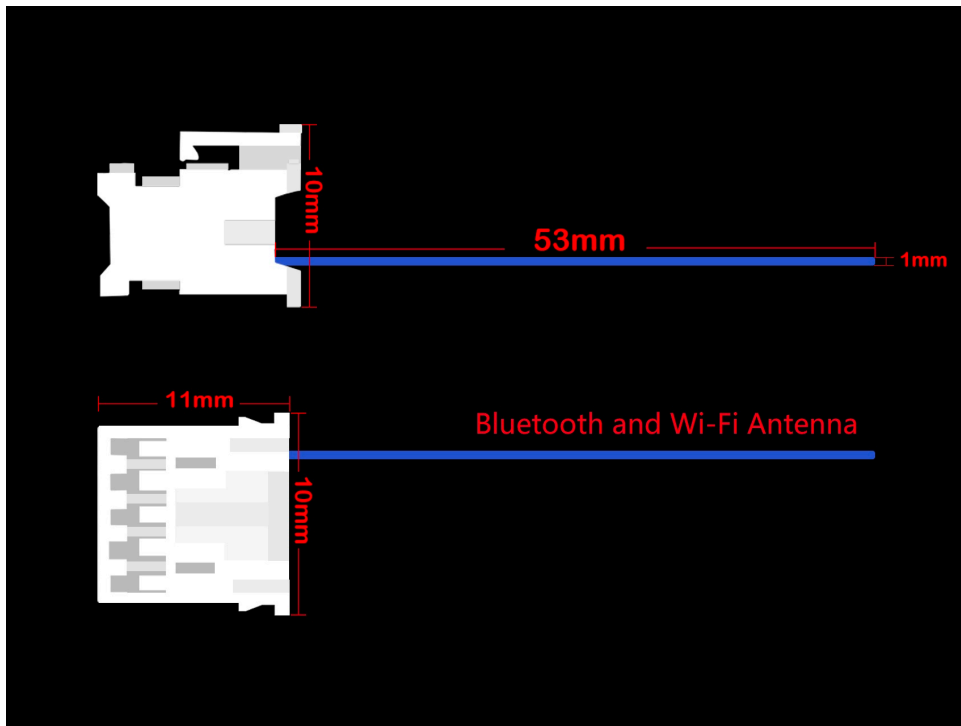
Modulation:

GFSK

1. Introduction of antenna

Both the Bluetooth and Wi-Fi antennas are on the 'wire-to-board connector'.

2. Antenna Shape



BT/WIFI Antenna

The BT/WIFI antenna operates at 2400-2500MHz / 5150-5850MHz and resonates within this band. The following table shows the main parameters of the antenna.

Bluetooth antenna	
Frequency (MHz)	2400-2500MHz / 5150-5850MHz
VSWR	≤ 1.92
Impedance	50 Ohm Nominal
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	2.24dBi@2.4-2.5GHz 2.21dBi@5.150-5.850GHz
Polarization	Linear, Vertical
Admitted Power	1W
Connector	Wire-to-board connector

3.2.2 Antenna gain detection report

Frequency MHz	2400	2450	2500	5150	5850
V.S.W.R	8.37	9.01	9.12	4.76	5.05

Frequency (MHz)	Efficiency (%)	PeakGAIN (@Bi)
2400	30.42	-0.97
2450	43.37	2.24
2500	41.53	1.46
5150	41.68	2.23
5850	45.71	2.21

