

Shenzhen Anwei Wireless Technology Co., Ltd.

APPROVAL SHEET

Shenzhen Anwei Wireless Technology Co., Ltd.	1
一、PRODUCT STANDARD	2
二、Electrical performance	2
1. Standard Specifications	2
2. The matching circuit of the antenna	2
三、Test of parameters	3
1. Setup of tests	3
2. The test results	3
四、Active test setup	3
1. Test site	3
2. Test results:	4
五、Structural Drawings	6

一、PRODUCT STANDARD

EBO SE antenna is WiFi antenna.(See Figure 1 below)

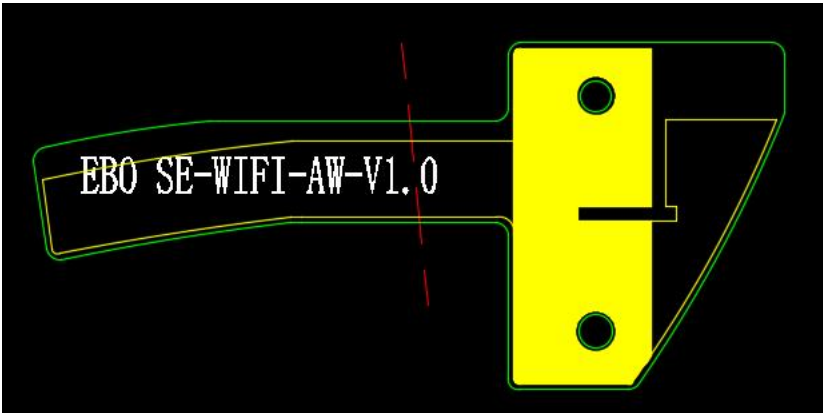


Figure 1 EBO SE antenna

二、Electrical performance

1. Standard Specifications

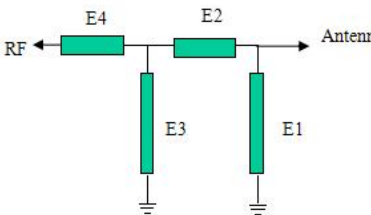
EBO SE antenna works in the frequency band of 2450MHz / 5100-5800MHz, and resonates in this frequency band.

2. The matching circuit of the antenna

The structure of the antenna: FPC

Matching circuit

	Main Antenna	BGW	DRX	GPS
Element	Value	Value	Value	Value
E1 (0201)				
E2 (0201)				
E3 (0201)				
E4 (0201)				



RF1	N/A	N/A
RF2	N/A	N/A
RF3	N/A	N/A
RF4	N/A	N/A

三、Test of parameters

1.Setup of tests

The test device of VSWR successively connected as:
E5071B Network analyzer → 50ohm Cable → 110mm brass → the test fixture
Treatment of test fixture:
A hard cable is used to lead the SMA-J connector from the 50 ohm test point of the antenna on the mobile phone PCB, which is connected to the copper pipe with the choke coil, and then to other devices in turn.

2.The test results

NA。

四、Active test setup

The active test device is successively connected as follows:
Agilent8960 → 50ohm Cable → SUNYIELD SG24 test system → Measured Object

1.Test site

AW Microwave dark room : The test frequency range is 400MHz -- 6GHz, the static zone range is 40cm circumference, and the reflectivity is less than -90 dB。

2.Test results:

Gain&Efficiency				
增益和效率				
frequency 频率(MHz)	gain 增益(dBi)	mingain 最小增益 (dBi)	efficiency 效率(dBi)	efficiency 效率(%)
2400	-0.62	-17.87	-6.05	24.59
2450	-0.86	-16.77	-5.16	30.08
2500	-0.78	-15.81	-4.02	38.19
5100	4.77	-17.75	-1.64	55.43
5200	4.73	-20.67	-1.56	55.97
5300	4.12	-24.85	-2.05	51.20
5400	3.83	-22.92	-2.42	51.31
5500	3.8	-21.92	-2.53	53.44
5600	3.98	-21.8	-2.38	53.56
5700	4.18	-21.47	-2.05	58.41
5800	4.03	-20.94	-2.27	58.76

