



## **N750**

## **WIFI Antenna**

**PN: SZ23377WB78**

### **Key features:**

- Antenna for 2400-2500MHz and 5150-5850MHz .
- High gain.
- Sustained High Efficiency and Performance.
- Impedance 50 Ohm.

## catalogs

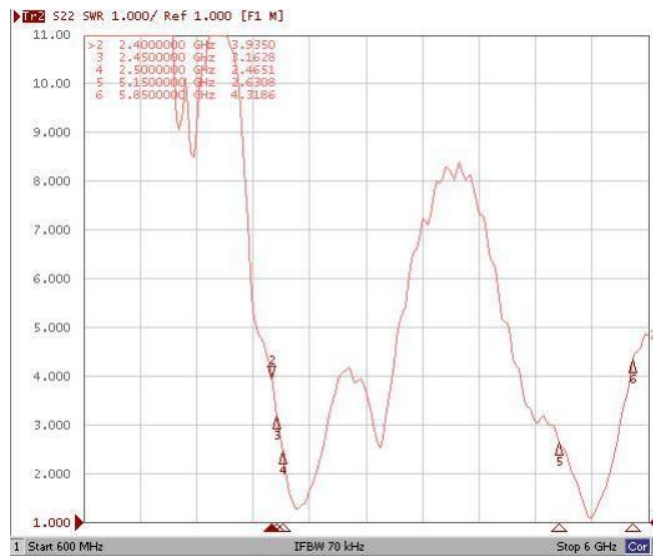
<b>1. Specifications</b> .....	- 2 -
<b>2. VSWR</b> .....	- 4 -
<b>3. Performance data</b> .....	- 4 -
<b>4. Radiation pattern</b> .....	- 6 -
<b>5. Drawing (Unit: mm)</b> .....	- 8 -

## 1. Specifications

Item		Specifications	
<b>WiFi Antenna</b>	Frequency range (MHz)	2400~2500MHz	5150~5850MHz
	Max Gain (dBi)	-1.48	1.84
	VSWR	3.9under	4.3under
	Efficiency (%)	15%~20%	10%~20%
	Output impedance ( $\Omega$ )	50	
<b>Mechanical</b>	Connector Type	SMA-Male	
	Antenna size(mm)	$\Phi$ 35×160mm	
	Cable length(mm)	1000	
	Cable type	RG174	
	Material	PC	
	Operating Temperature (°C)	- 40 °C ~ + 60 °C	
	Storage Temperature(°C)	- 55 °C ~ + 75 °C	

Item		Specifications
<b>BT Antenna</b>	Frequency range (MHz)	2400~2500MHz
	Max Gain (dBi)	-1.48
	VSWR	3.9under
	Efficiency (%)	15%~20%
	Output impedance ( $\Omega$ )	50
<b>Mechanical</b>	Connector Type	SMA-Male
	Antenna size(mm)	$\Phi 35 \times 160$ mm
	Cable length(mm)	1000
	Cable type	RG174
	Material	PC
	Operating Temperature ( $^{\circ}\text{C}$ )	- 40 $^{\circ}\text{C}$ ~ + 60 $^{\circ}\text{C}$
	Storage Temperature( $^{\circ}\text{C}$ )	- 55 $^{\circ}\text{C}$ ~ + 75 $^{\circ}\text{C}$

## 2. VSWR



## 3. Performance data

### 3.1 OTA test data

Measurement	Band	Channel	Total (dBm)
TRP	WIFI_B (11M)	1	13.75
TRP	WIFI_B (11M)	6	14.18
TRP	WIFI_B (11M)	11	14.82
TIS(EIRP)	WIFI_B (11M)	11	-79.19
TRP	WIFI_G (54M)	1	13.9
TRP	WIFI_G (54M)	6	13.97
TRP	WIFI_G (54M)	11	14.66
TIS(EIRP)	WIFI_G (54M)	11	-66.25
TRP	WIFI_N_ISM (65M)	1	12.92
TRP	WIFI_N_ISM (65M)	6	12.94
TRP	WIFI_N_ISM (65M)	11	13.58
TIS(EIRP)	WIFI_N_ISM (65M)	11	-63.42
TRP	WIFI_A (54M)	36	13.38
TRP	WIFI_A (54M)	149	13.43
TRP	WIFI_A (54M)	165	11.54
TIS(EIRP)	WIFI_A (54M)	165	-65.62

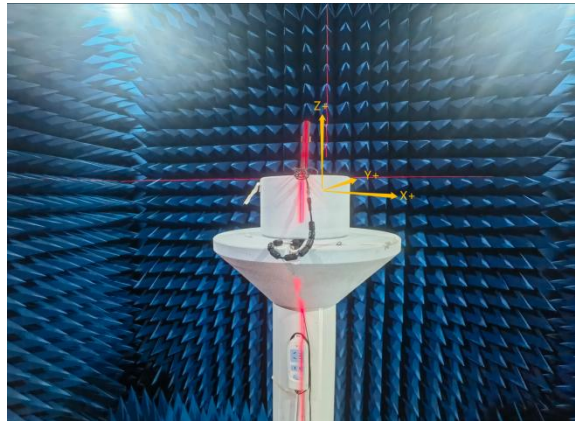
### 3.2 WiFi Passive test data

Frequency/Mhz	MaxGain/dBi	Efficiency / %	Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	-3.56	16.59	5390	1.41	17.54
2410	-3.49	16.07	5410	1.84	19.28
2420	-3.08	16.86	5430	1.57	18.37
2430	-2.84	16.86	5450	1.26	17.5
2440	-2.77	17.16	5470	1.41	18.37
2450	-1.74	17.97	5490	1.35	18.41
2460	-2.48	17.79	5510	0.88	17.18
2470	-1.81	19.49	5530	0.89	17.5
2480	-2.35	19.93	5550	0.92	18.11
2490	-1.48	20.17	5570	0.35	16.48
2500	-1.58	20	5590	0.38	16.71
5150	-1.48	11.19	5610	0.32	16.87
5170	-1.26	11.12	5630	-0.18	15.52
5190	-0.83	11.97	5650	-0.15	15.52
5210	-0.7	11.86	5670	-0.12	15.89
5230	-0.17	12.68	5690	-0.43	15.7
5250	0.03	13.03	5710	-0.93	14.49
5270	0.37	14	5730	-1.3	13.84
5290	0.8	15.21	5750	-1.56	13.77
5310	0.92	15.67	5770	-1.48	14.35
5330	1.35	17.38	5790	-1.77	13.27
5350	1.51	17.58	5810	-1.72	12.79
5370	1.46	17.54	5830	-1.49	12.91
			5850	-1.36	12.94

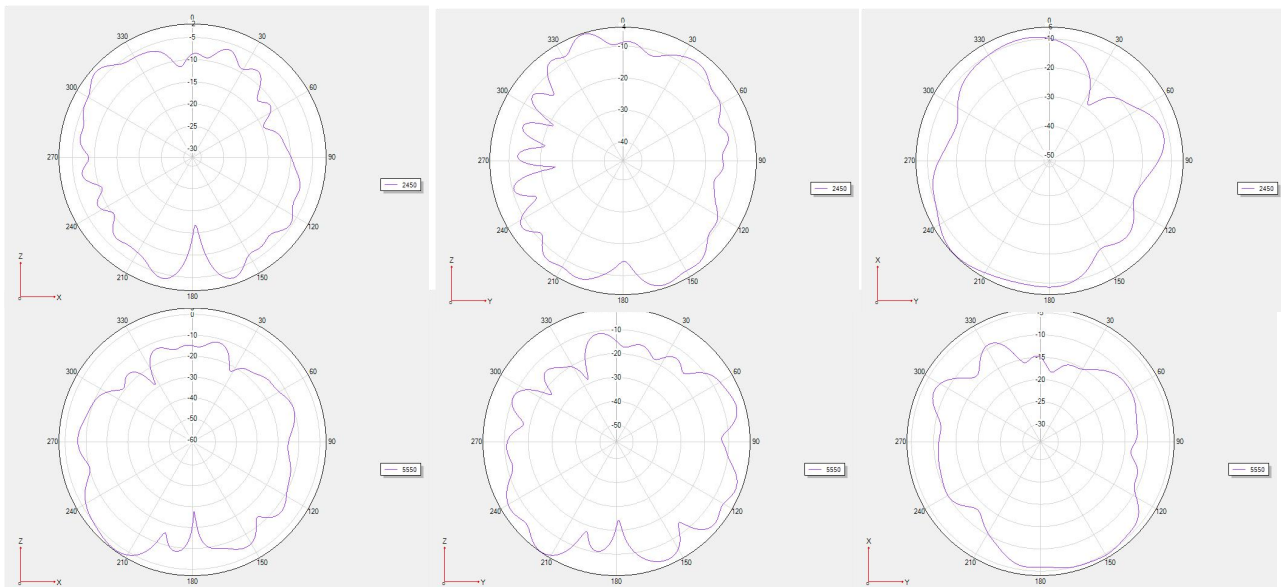
### 3.2 BT Passive test data

Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	-3.56	16.59
2410	-3.49	16.07
2420	-3.08	16.86
2430	-2.84	16.86
2440	-2.77	17.16
2450	-1.74	17.97
2460	-2.48	17.79
2470	-1.81	19.49
2480	-2.35	19.93
2490	-1.48	20.17
2500	-1.58	20

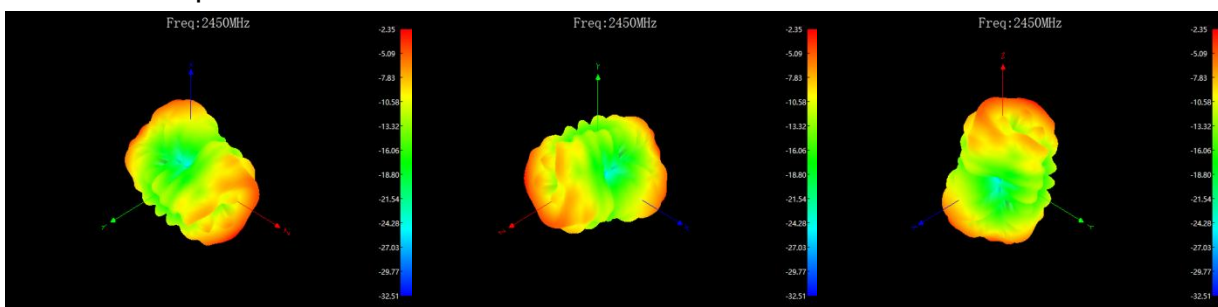
### 4. Radiation pattern

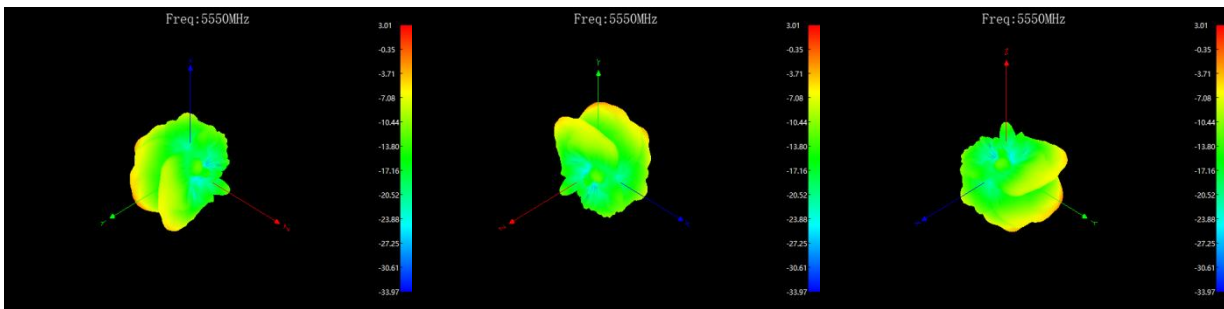


### 2D Radiation pattern



### 3D Radiation pattern





## 5. Mass production antenna index

When the antenna is in mass production, the standing wave ratio is used as the test standard for mass production.

Based on the differences of the project itself, the following criteria are given:

Freq	Mass production standards
2400-2500MHz	VSWR (mass production performance) <VSWR (recognized performance) + 0.5
5150-5850MHz	

6. Drawing (Unit: mm)

