BTS20 Antenna

PN: SW20038EB56



Features

- Antenna for 2400~2500MHz.
- Antenna type : Spring
- Antenna for 2.4G WIFI applications

Sunnyway Technology

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1. Electrical Specifications

Standards	2.4G WiFi
Frequency range (MHz)	2400~2500MHz
Peak Gain (dBi)	3.9~4.9dBi
Average Gain (dB)	-2.9~-2.6dB
VSWR	<3.6
Return Loss	<-4.9
Efficiency (%)	50.9~54.7%
Polarization mode	Linear
Radiation pattern	Omni-Directional
Output impedance (Ω)	50
Max. Input Power(W)	25

2. Mechanical and Environmental Specification

Mounting Type	Screw
Antenna size(mm)	φ9mmX171mm
Material	Spring ABS
Operating Temperature (˚C)	- 40 ˚C ~ + 85 ˚C
Storage Temperature(˚C)	- 40 ˚C ~ + 85 ˚C

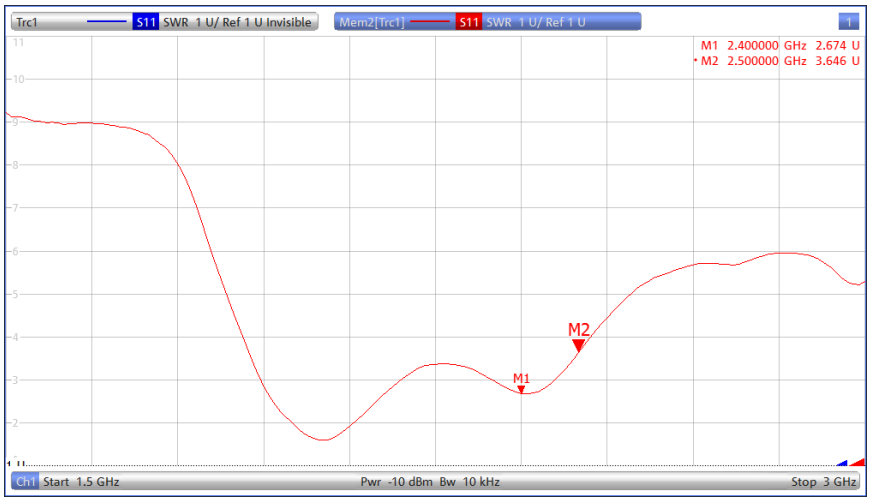
3. Antenna parameters

3.1 General Data

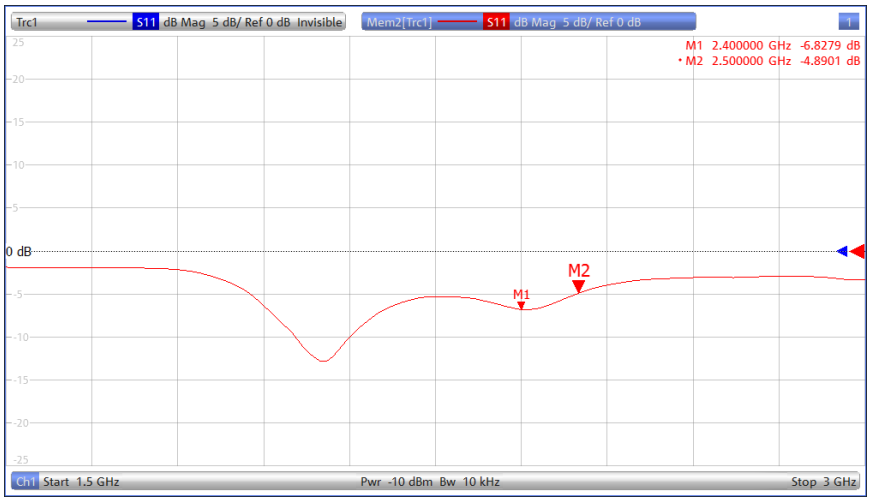
Tested with 150mm cable length

FRE (MHz)	2400	2500
VSWR	2.7	3.6
Return Loss	-6.8	-4.9
Eff (%)	54.7	50.9
Average Gain(dB)	-2.6	-2.9

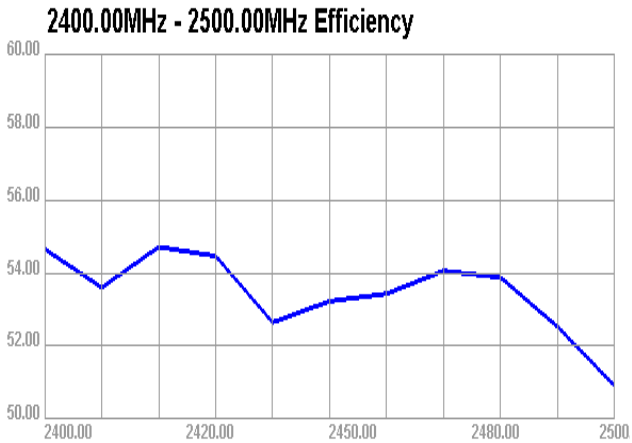
3.2 VSWR

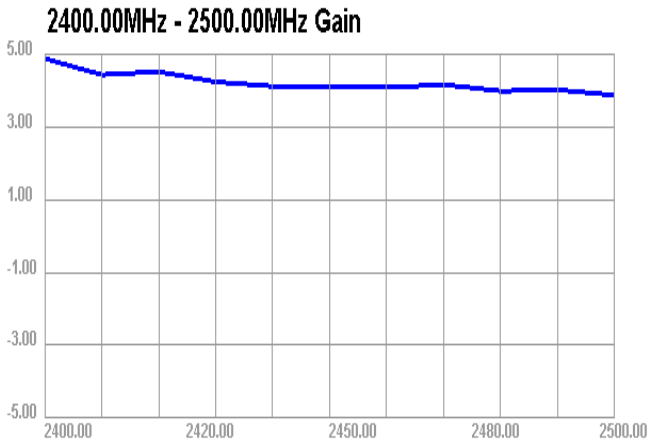


3.3 Return Loss

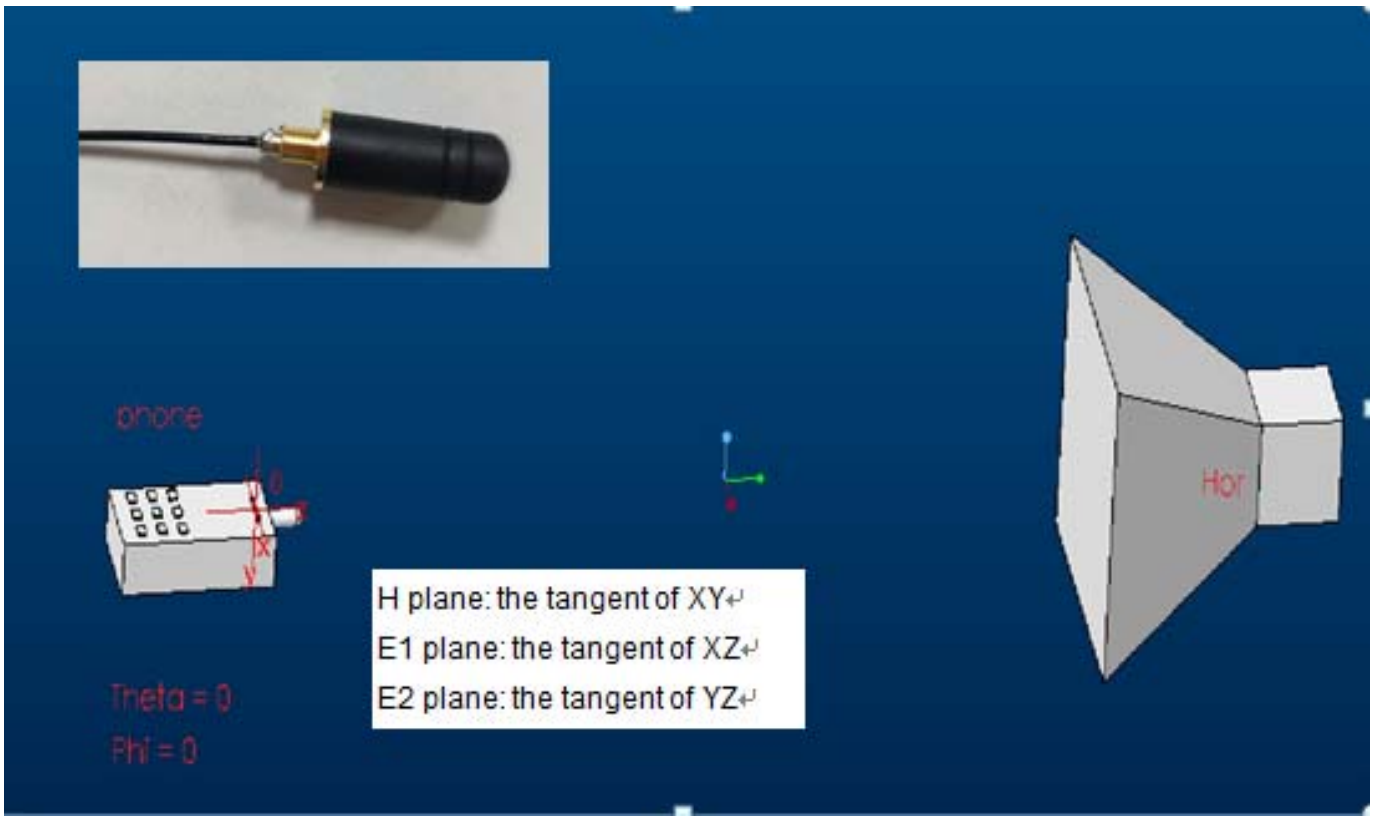


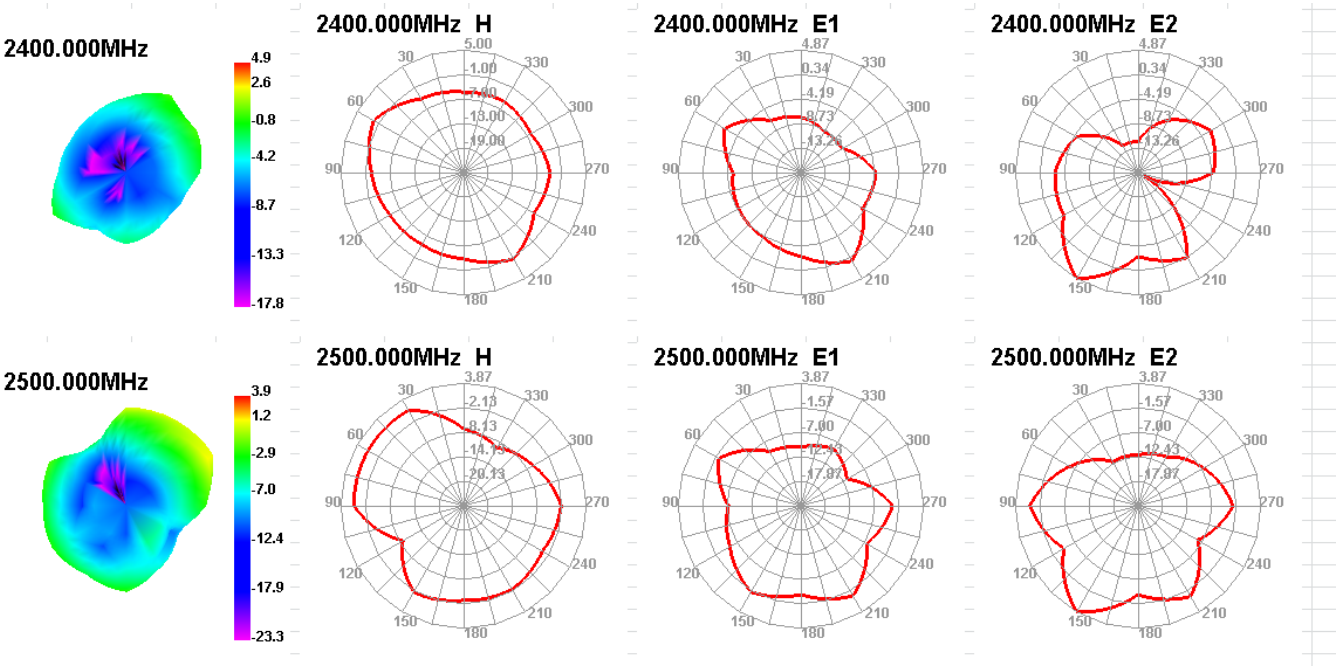
3.4 Efficiency and Gain





3.5 Directional pattern





3.6 Passive data

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	54.65	-2.62	4.87
2410	53.61	-2.71	4.43
2420	54.72	-2.62	4.51
2430	54.47	-2.64	4.24
2440	52.65	-2.79	4.11
2450	53.23	-2.74	4.11
2460	53.43	-2.72	4.08
2470	54.06	-2.67	4.16
2480	53.88	-2.69	3.98
2490	52.53	-2.8	4.02
2500	50.92	-2.93	3.87

4. Antenna Drawings

