

SWE054

PN: SZ21451WB56



Features:

- Antenna for 2400~2500MHz and 5100~7125MHz applications: Wi-Fi 802.11a/b/g/j/n/ac/ax.
- Support WIFI6/6E Band
- High gain.
- Sustained High Efficiency and Performance.
- Impedance 50 Ohm.

Applications:

- Remote monitoring
- Network Devices
- Gateway
- Router/CPE
- Others

1. Electrical Specifications

Standards	2.4G WiFi	5.8G +WiFi6E
Frequency range (MHz)	2400~2500MHz	5100~7125MHz
Peak Gain (dBi)	1.0~3.0	2.0~6.5
Average Gain (dB)	-1.6~-0.8	-3.0~-0.8
VSWR	< 1.5	< 2.5
Return Loss(dB)	< -13.98	< -7.36
Efficiency (%)	68~85	50~85
Polarization mode	Linear	
Radiation pattern	Omni-Directional	
Output impedance (Ω)	50	
Max. Input Power(W)	5	

2. Mechanical and Environmental Specification

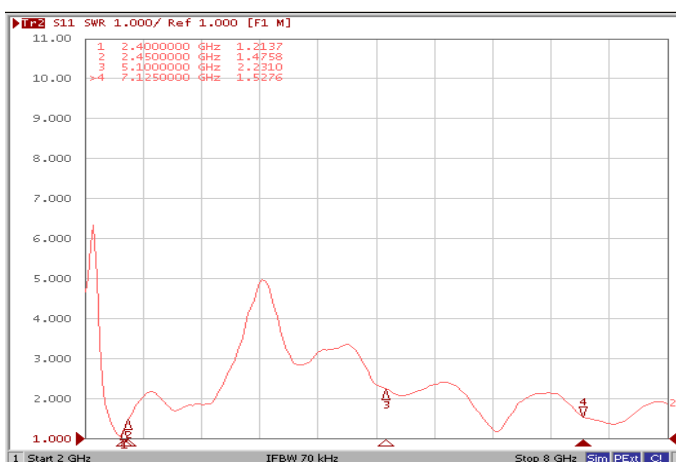
Mounting Type	Connector Mount
Connector Type	SMA (M)
Antenna size(mm)	194 x 44.1x Φ 13
Material	ABS
Operating Temperature (°C)	- 40 °C ~ + 85 °C
Storage Temperature(°C)	- 40 °C ~ + 85 °C

3. Antenna parameters

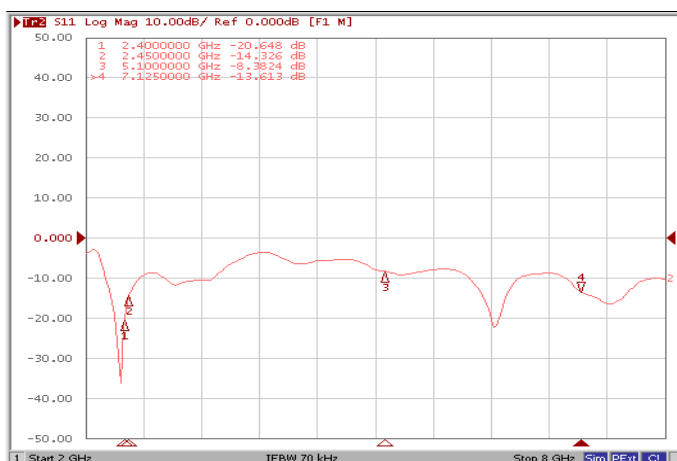
3.1 General Specification

FRE (MHz)	2400	2450	5100	7125
VSWR	1.21	1.47	2.23	1.53
Return Loss	-20.6	-14.3	-8.38	-13.6
Eff (%)	80	82	58	81
Average Gain (dB)	-0.96	-0.85	-2.38	-0.89

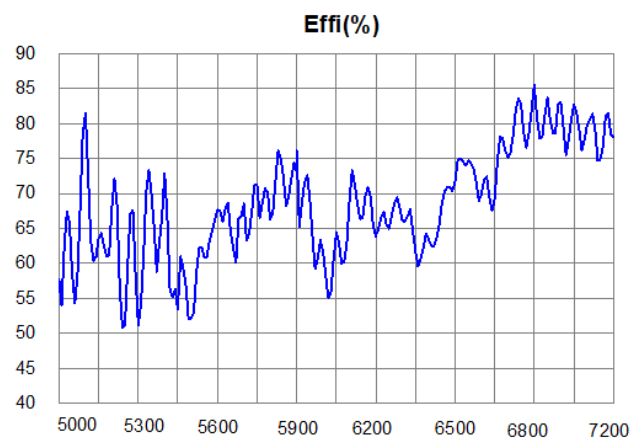
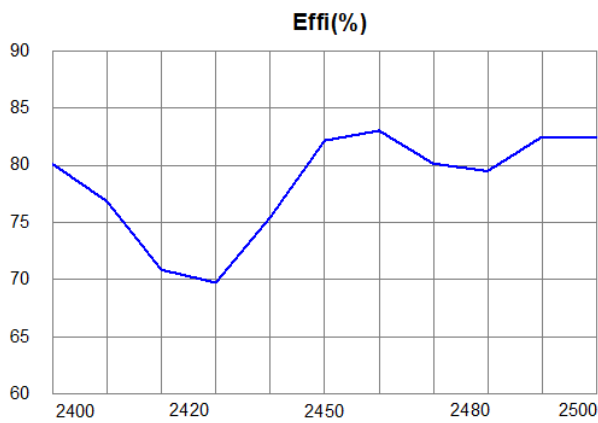
3.2 VSWR



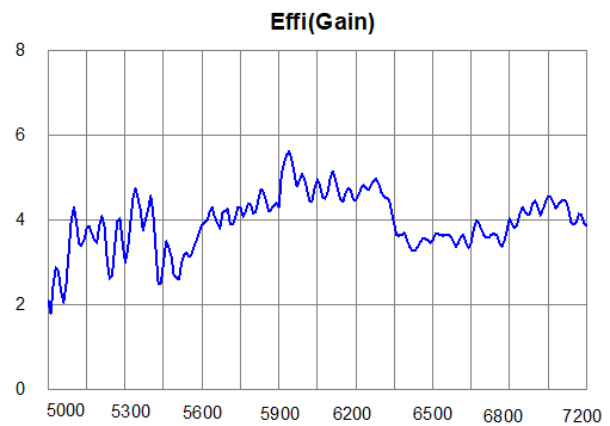
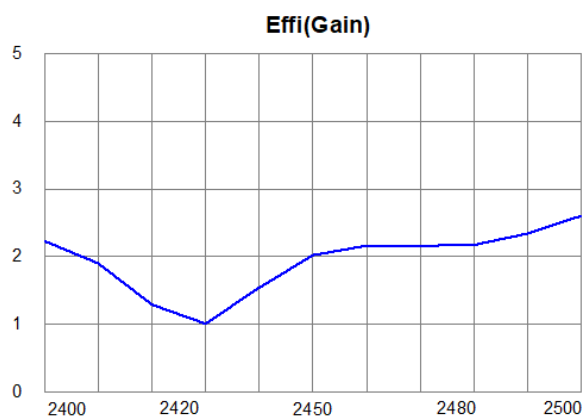
3.3 Return Loss



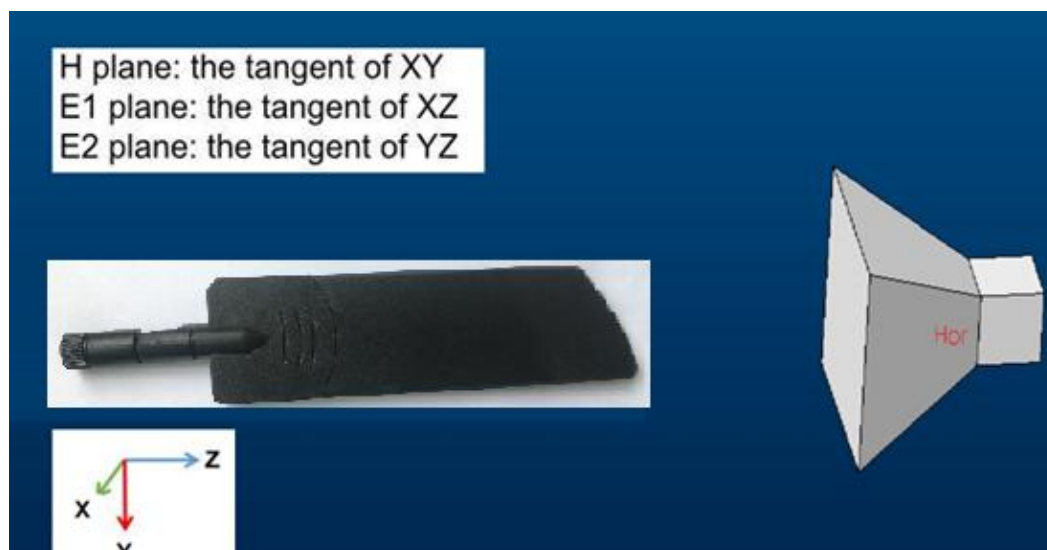
3.4 Efficiency



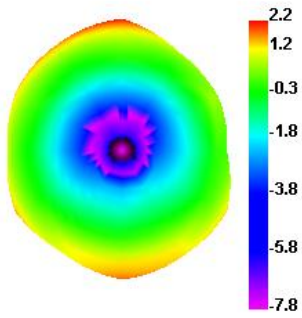
3.5 Gain



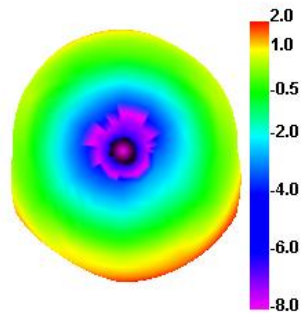
3.6 Directional pattern



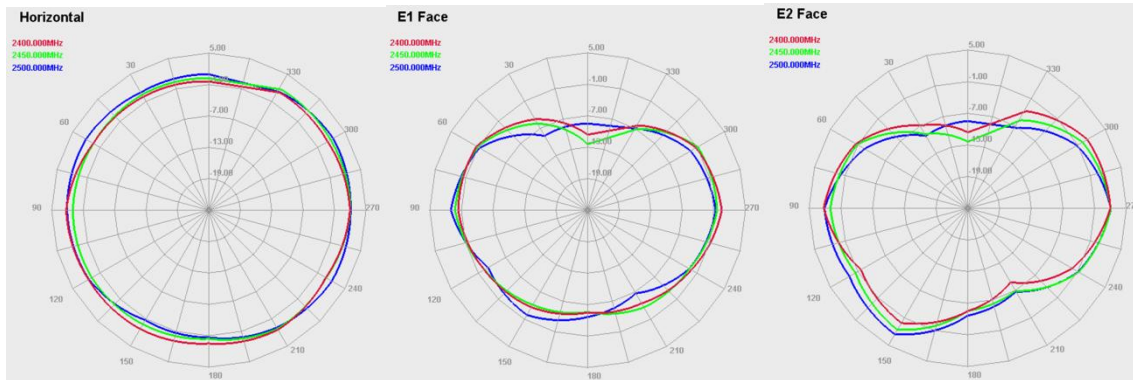
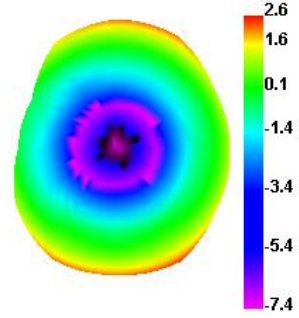
2400.000MHz



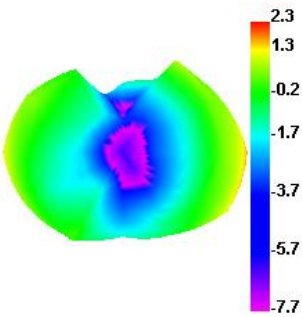
2450.000MHz



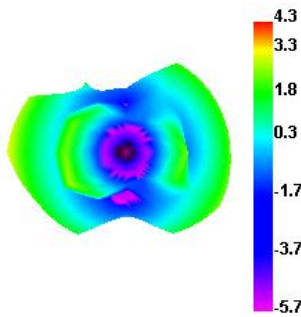
2500.000MHz



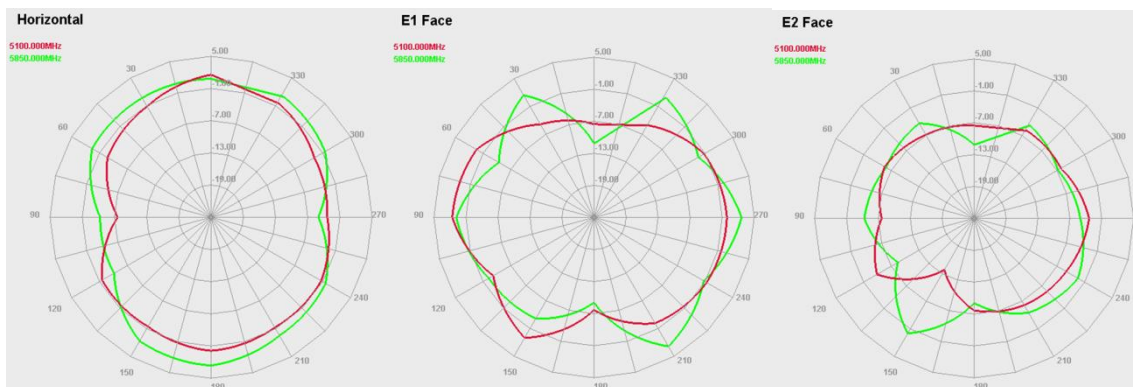
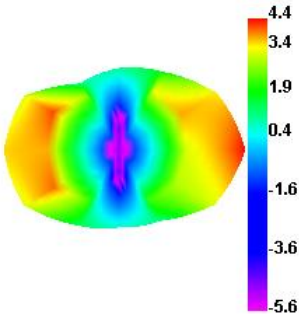
5150.000MHz

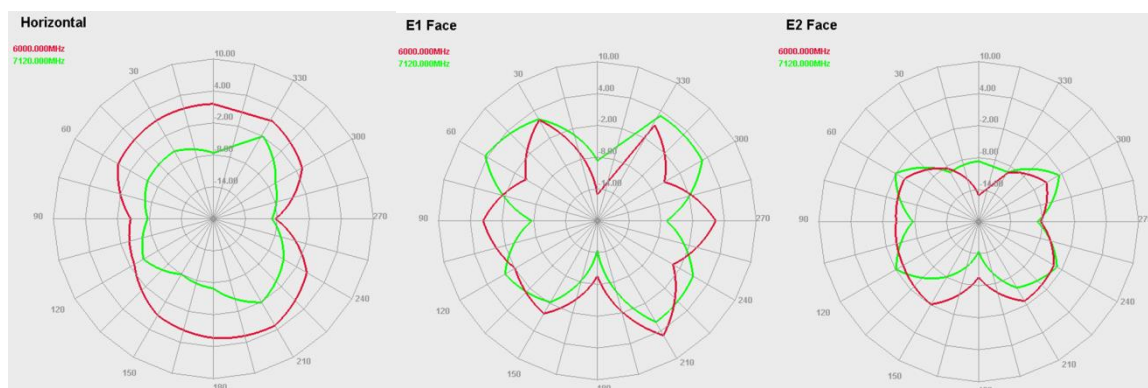


5850.000MHz

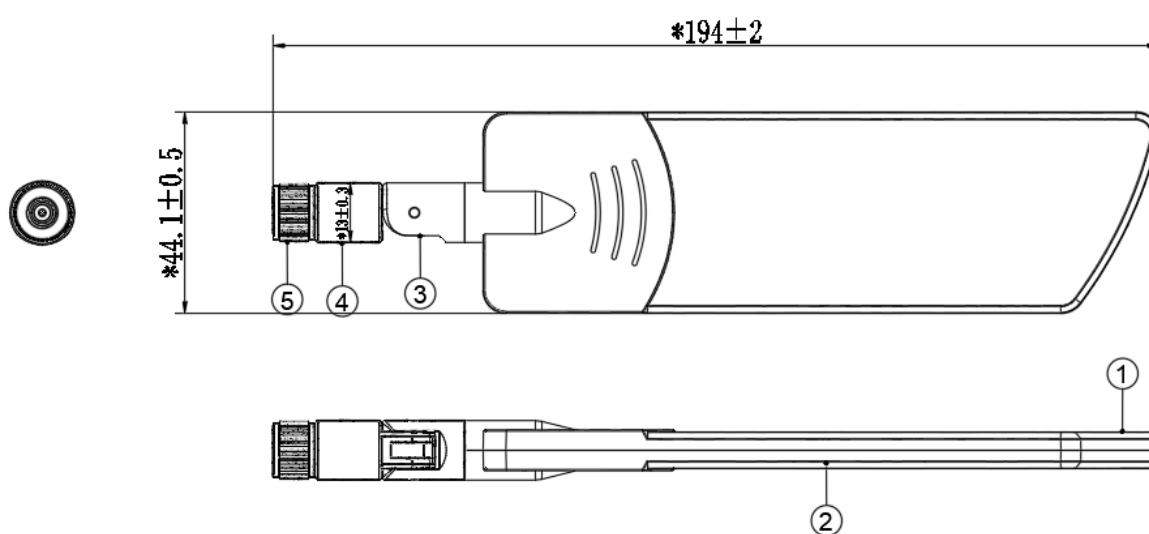


7120.000MHz





4. Antenna Drawing



5	SMA	SMA-Male	black	1
4	Download firmware	ABS	black	1
3	Upload firmware	ABS	black	1
2	Lower shell	ABS	black	1
1	Upper shell	ABS	black	1
serise	name	Specification	colour	Quantity