SWE041

PN: SW20289EB56



Features:

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

Applications:

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

Sunnyway Technology

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1. Electrical Specifications

Standards	2.4G WiFi	5.8G WiFi+WiFi6E
Frequency range (MHz)	2400~2500MHz	5100~7125MHz
Peak Gain (dBi)	4.5~5.5	3.0~6.5
Average Gain (dB)	-1.8~-1.4	-3.0~-0.8
VSWR	< 1.5	< 2.5
Return Loss(dB)	< -15.0	< -7.0
Efficiency (%)	66~73	50~83
Polarization mode	Linear	Linear
Radiation pattern	Omni-Directional	Omni-Directional
Output impedance (Ω)	50	50
Max. Input Power(W)	5	5

2. Mechanical and Environmental Specification

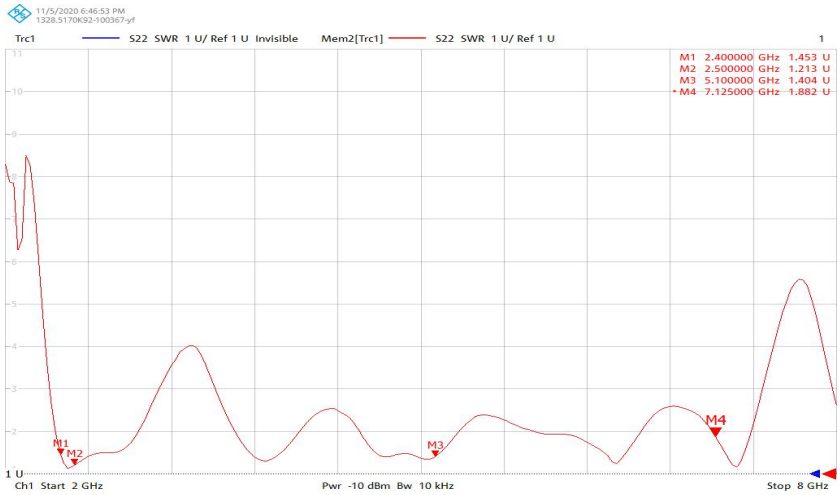
Mounting Type	Connector Mount
Connector Type	SMA (M)
Antenna size(mm)	152.4 x 21.79 x 14.49
Material	ABS
Operating Temperature (˚C)	- 40 ˚C ~ + 85 ˚C
Storage Temperature(˚C)	- 40 ˚C ~ + 85 ˚C

3. Antenna parameters

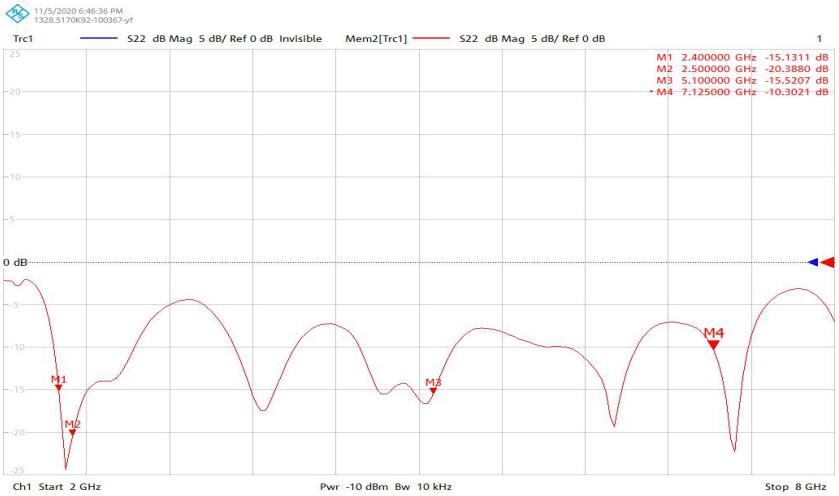
3.1 General Specification

FRE (MHz)	2400	2500	5100	7125
VSWR	1.4	1.2	1.4	1.8
Return Loss	-15.1	-20.3	-15.5	-10.3
Eff (%)	68.0	71.5	72.5	75.9
Average Gain (dB)	-1.7	-1.5	-1.4	-1.2

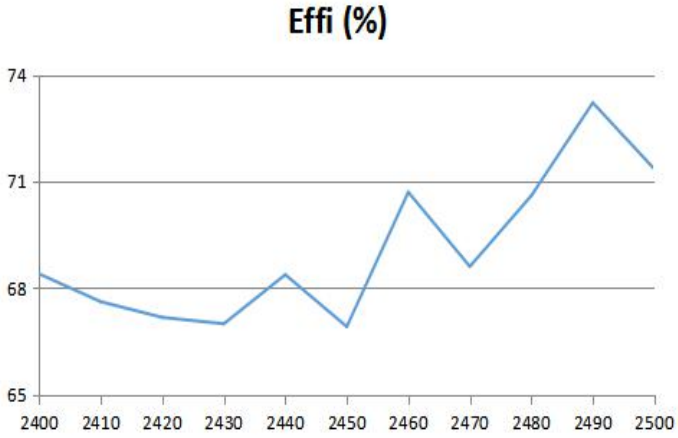
3.2 VSWR

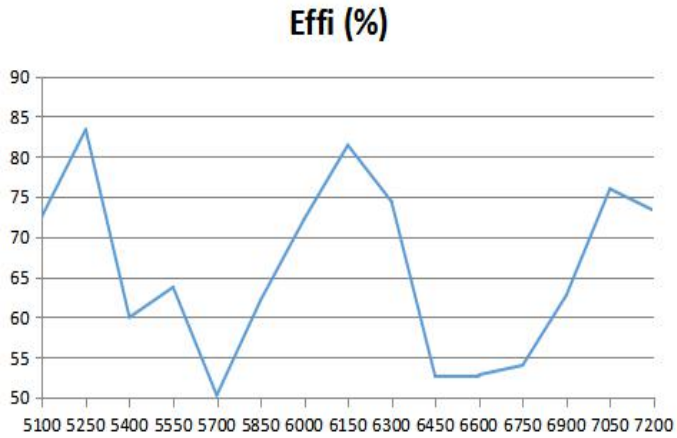


3.3 Return Loss

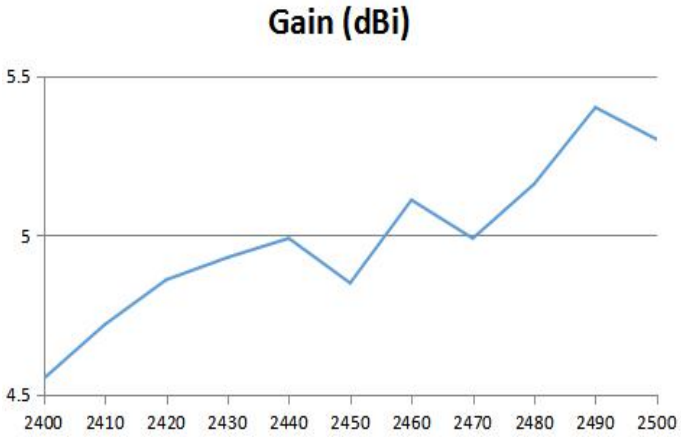


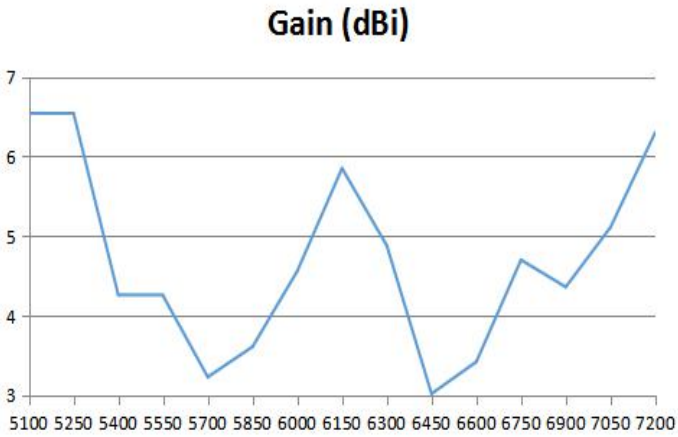
3.4 Efficiency





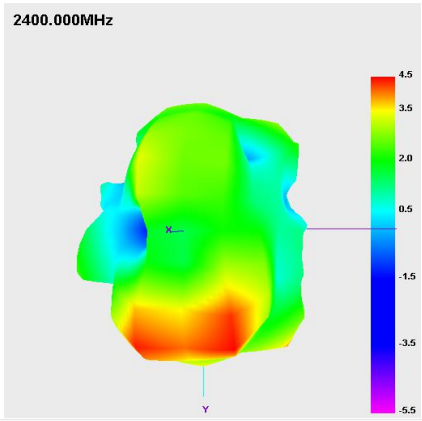
3.5 Gain

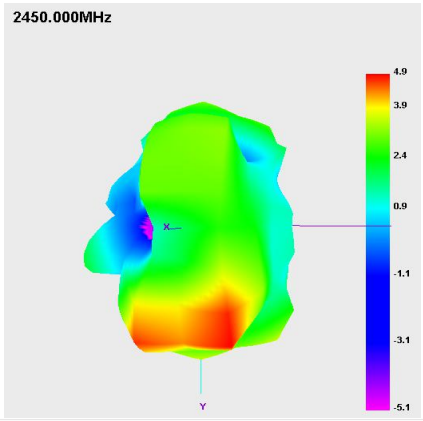


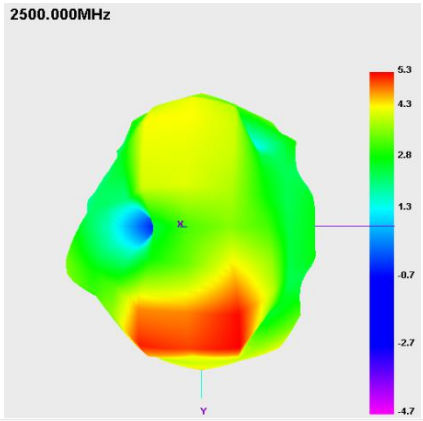


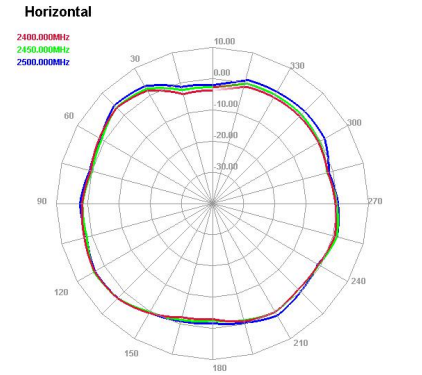
3.6 Directional pattern

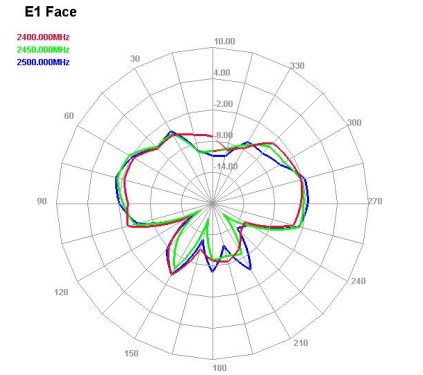


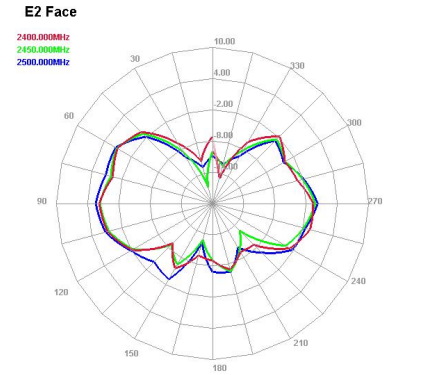

2400.000MHz
4.5
3.5
2.0
0.5
-1.5
-3.5
-5.5
X
Y

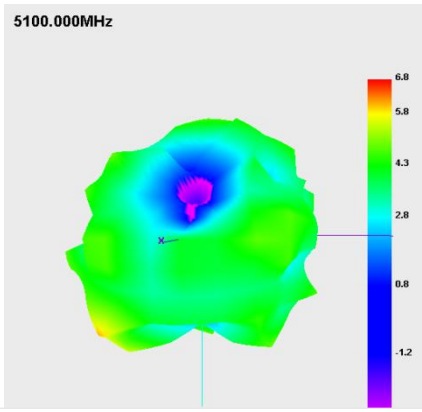

2450.000MHz
4.9
3.9
2.4
0.9
-1.1
-3.1
-5.1
X
Y

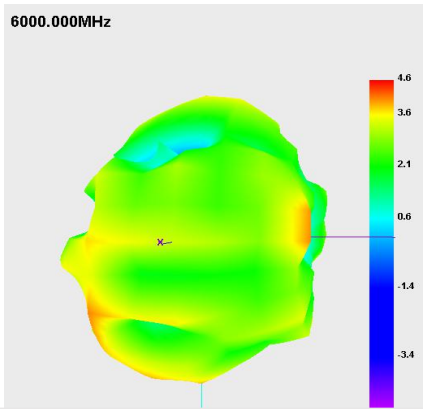

2500.000MHz
5.3
4.3
2.8
1.3
-0.7
-2.7
-4.7
X
Y

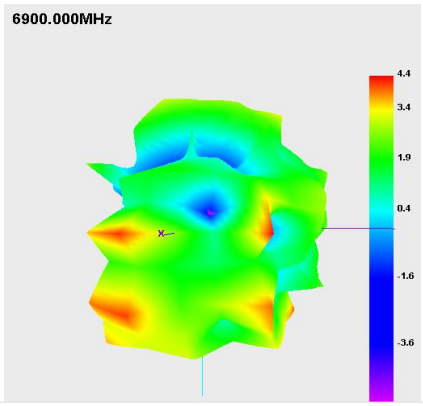

Horizontal
2400.000MHz
2450.000MHz
2500.000MHz

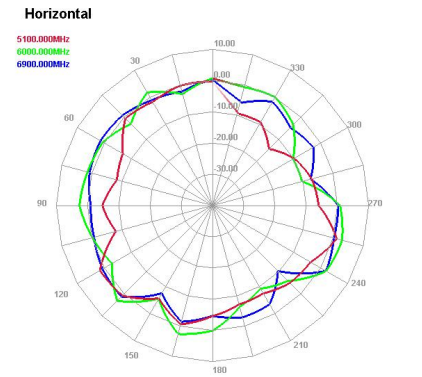

E1 Face
2400.000MHz
2450.000MHz
2500.000MHz

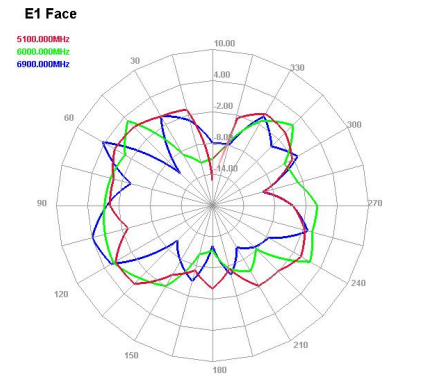

E2 Face
2400.000MHz
2450.000MHz
2500.000MHz

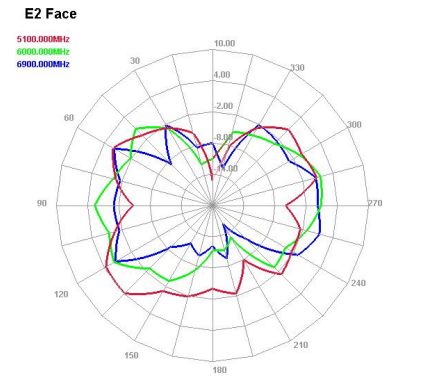

5100.000MHz
6.8
5.8
4.3
2.8
0.8
-1.2
X


6000.000MHz
4.6
3.6
2.1
0.6
-1.4
-3.4
X

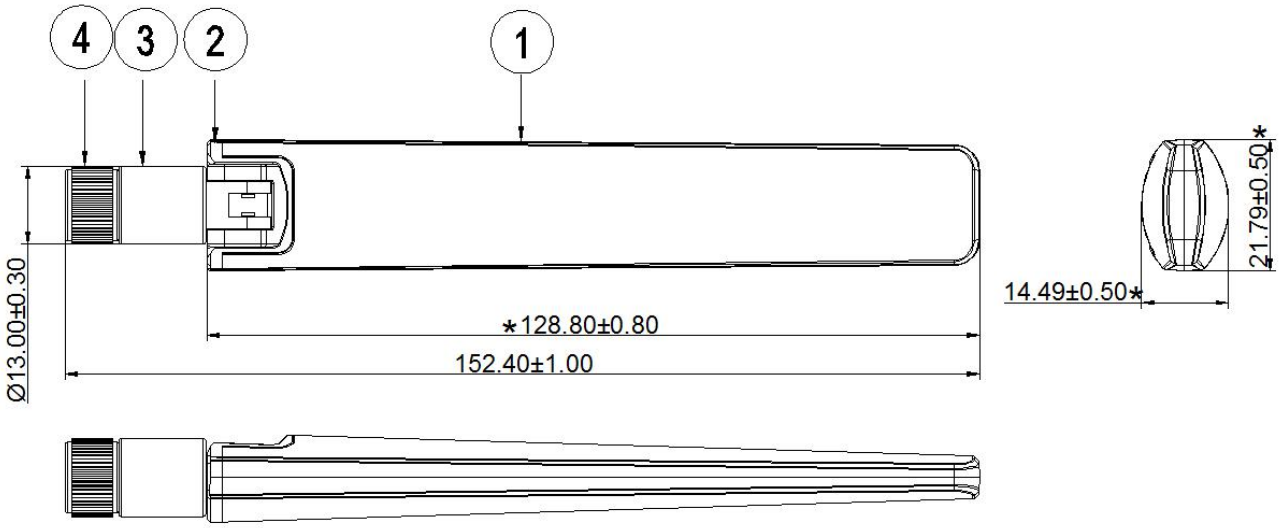

6900.000MHz
4.4
3.4
1.9
0.4
-1.6
-3.6
X


Horizontal
5100.000MHz
6000.000MHz
6900.000MHz


E1 Face
5100.000MHz
6000.000MHz
6900.000MHz


E2 Face
5100.000MHz
6000.000MHz
6900.000MHz

4. Antenna Drawing



Series	Component name	Specification	Color	Quantity
1	noumenon	ABS	black	1
2	Upper firmware	ABS	black	1
3	Lower Firmware	ABS	black	1
4	SMA	SMA-M	black	1