SUNNYWAY

SWE044

PN: SW20294EB56



Features

- Antenna for 2000MHz~8000 MHz
- Impedance 50 Ohm.

Applications:

- 5G/UWB

Sunnyway Technology

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1. Electrical Specifications

Frequency range (MHz)	2000~8000
Peak Gain (dBi)	-0.2~5.7
Average Gain (dB)	-4.6~-0.5
VSWR	< 5
Return Loss	< -3.5
Efficiency (%)	34.8~90.1
Polarization mode	Linear
Radiation pattern	Omni-Directional
Output impedance (Ω)	50
Max. Input Power(W)	25

2. Mechanical and Environmental Specification

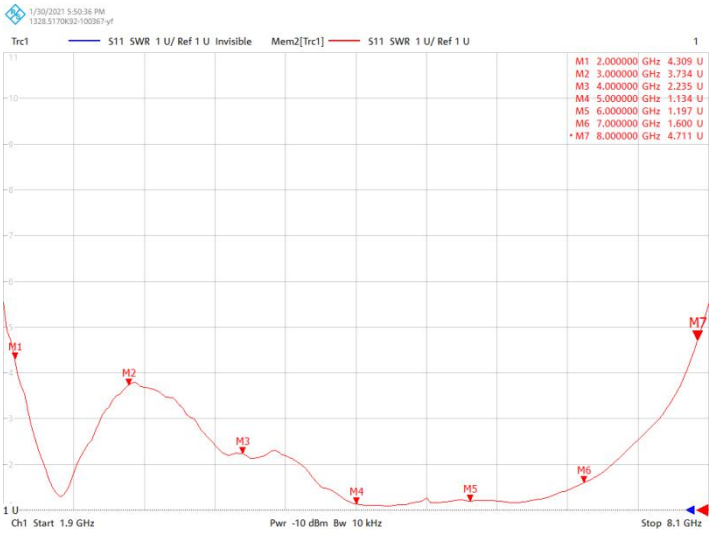
Mounting Type	Connector Mount
Connector Type	SMA-Male Standard (Straight)
Antenna size(mm)	51.5Xφ8mm
Material	ABS
Operating Temperature (˚C)	- 40 ˚C ~ + 85 ˚C
Storage Temperature(˚C)	- 40 ˚C ~ + 85 ˚C

3. Antenna parameters

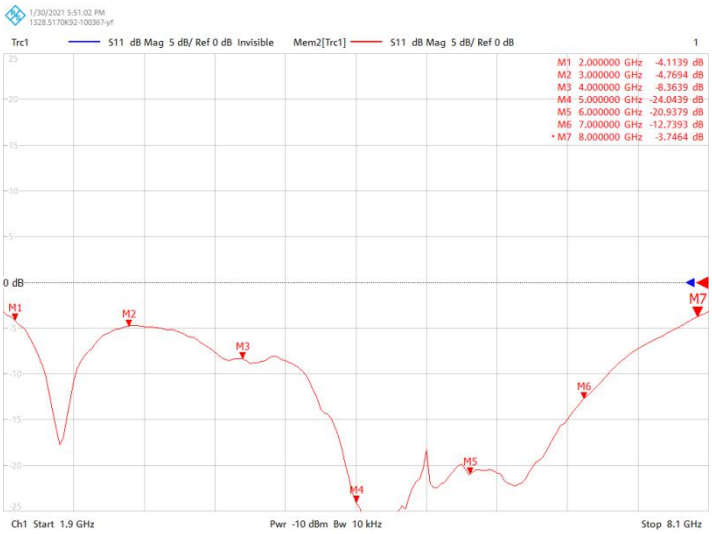
3.1 General Data

FRE (MHz)	2000	3000	4000	5000	6000	7000	8000
VSWR	4.3	3.7	2.2	1.1	1.2	1.6	4.7
Return Loss	-4.1	-4.8	-8.4	-24.0	-20.9	-12.7	-3.7
Eff (%)	34.8	46.1	45.0	70.0	84.4	75.4	45.9
Average	-4.6	-3.4	-3.5	-1.6	-0.7	-1.2	-3.4

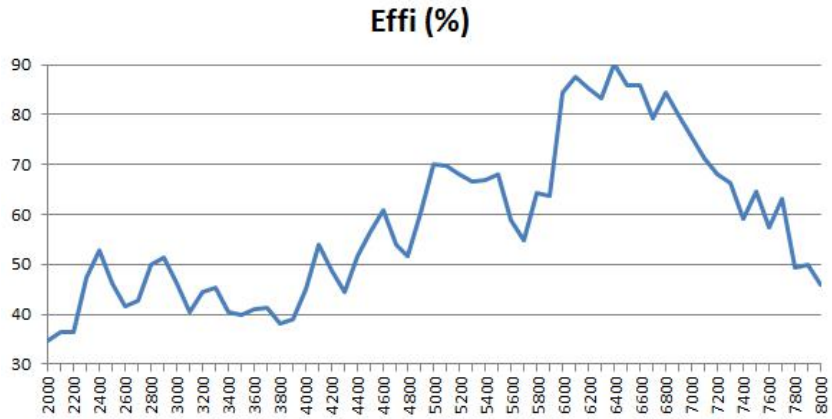
3.2 VSWR



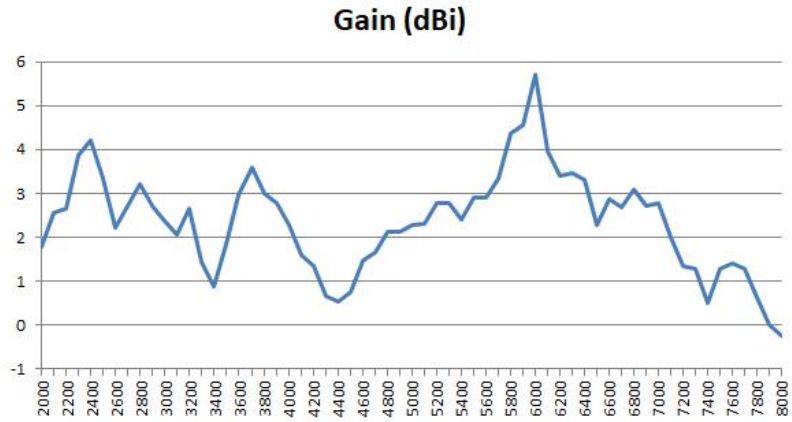
3.3Return Loss



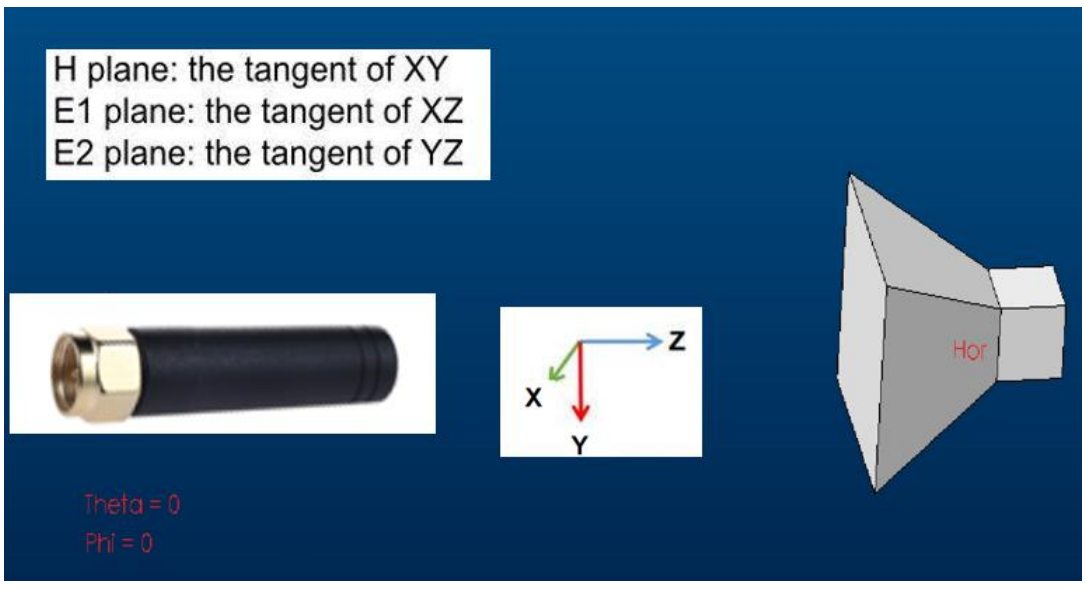
3.4 Efficiency

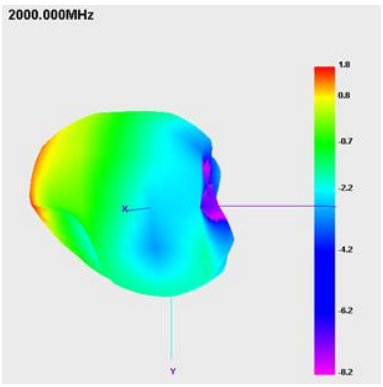


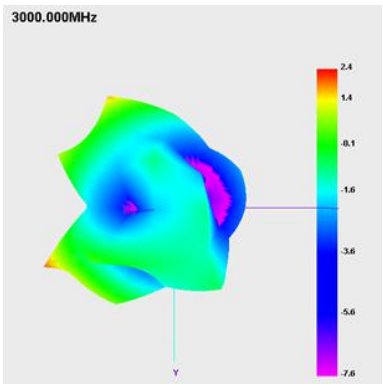
3.5 Gain

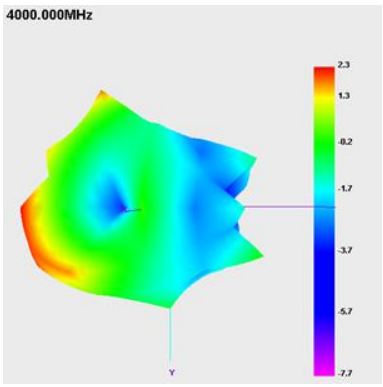


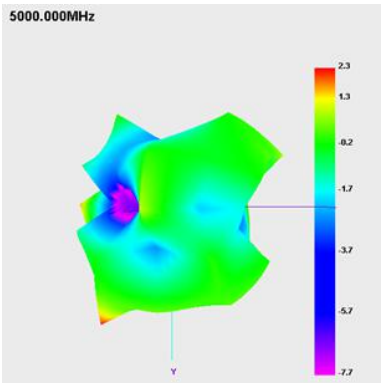
3.6 Directional Pattern

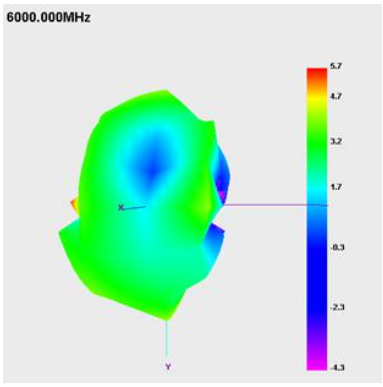


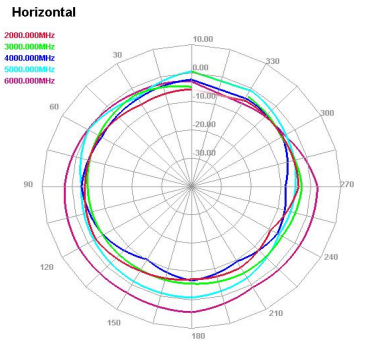

2000.000MHz
1.8
0.8
-0.7
-2.2
-4.2
-6.2
-8.2
X
Y

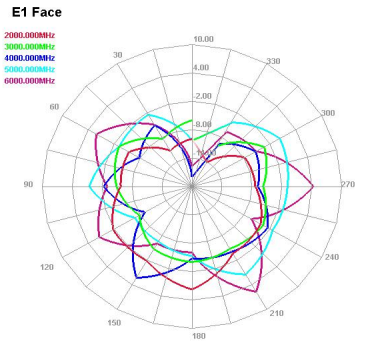

3000.000MHz
2.4
1.4
-0.1
-1.6
-3.6
-5.6
-7.6
Y

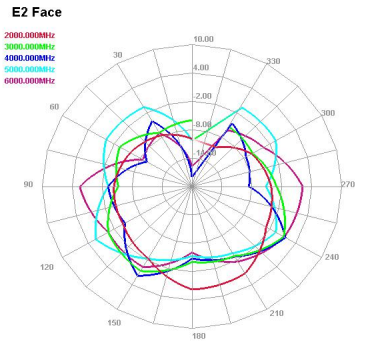

4000.000MHz
2.3
1.3
-0.2
-1.7
-3.7
-5.7
-7.7
Y

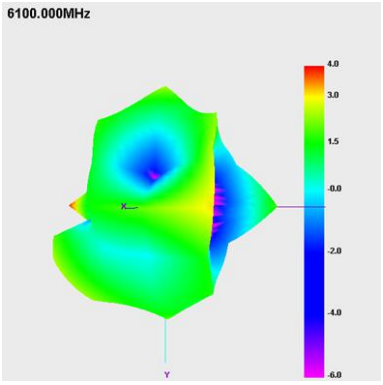

5000.000MHz
2.3
1.3
-0.2
-1.7
-3.7
-5.7
-7.7
Y

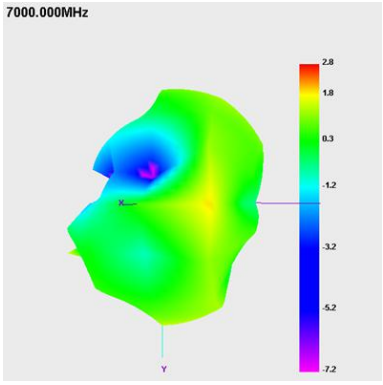

6000.000MHz
5.7
4.7
3.2
1.7
-0.3
-2.3
-4.3
X
Y

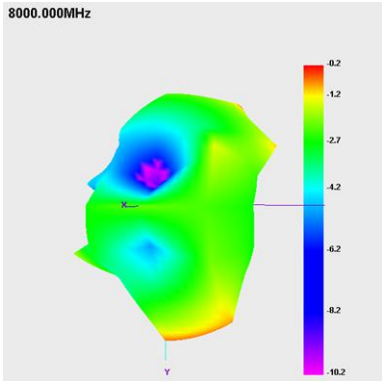

Horizontal
2000.000MHz
3000.000MHz
4000.000MHz
5000.000MHz
6000.000MHz
10.00
0.00
-10.00
-20.00
-30.00
30
330
60
300
90
270
120
240
150
210
180

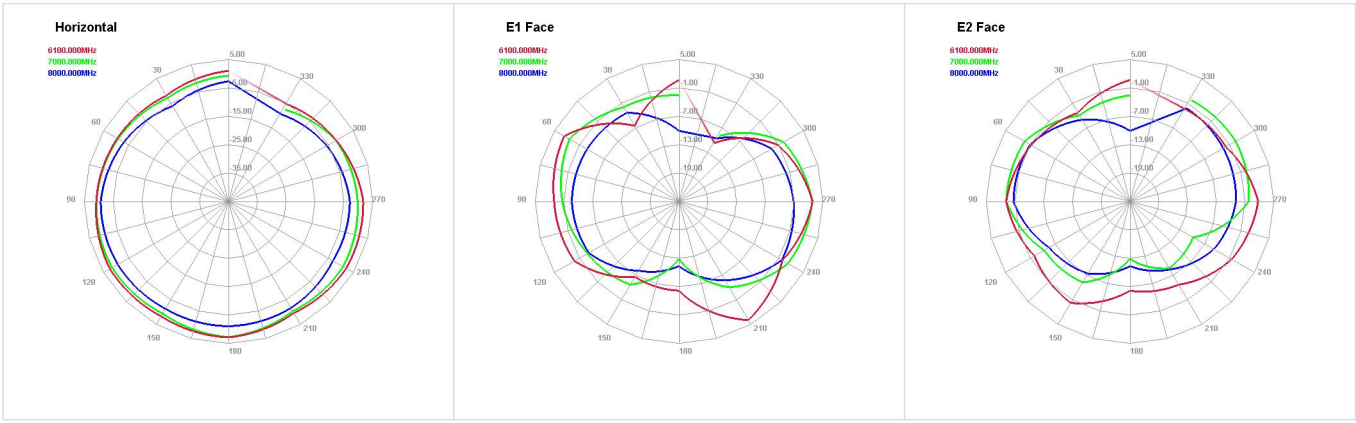

E1 Face
2000.000MHz
3000.000MHz
4000.000MHz
5000.000MHz
6000.000MHz
10.00
4.00
2.00
0.00
-2.00
-4.00
30
330
60
300
90
270
120
240
150
210
180


E2 Face
2000.000MHz
3000.000MHz
4000.000MHz
5000.000MHz
6000.000MHz
10.00
4.00
2.00
0.00
-2.00
-4.00
30
330
60
300
90
270
120
240
150
210
180

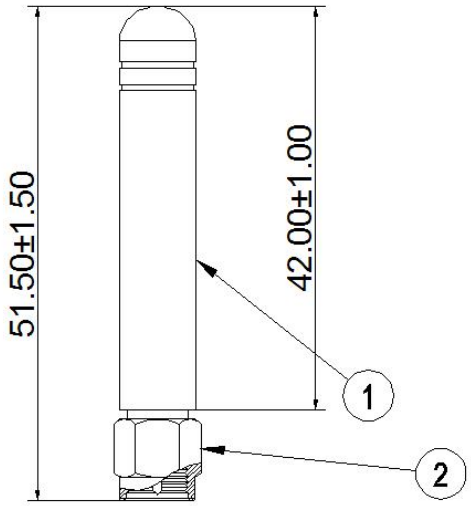

6100.000MHz
4.0
3.0
1.5
-0.0
-2.0
-4.0
-6.0
X
Y


7000.000MHz
2.8
1.8
0.3
-1.2
-3.2
-5.2
-7.2
X
Y


8000.000MHz
-0.2
-1.2
-2.7
-4.2
-6.2
-8.2
-10.2
X
Y



4. Antenna Drawings(Unit:mm)



Series	Component name	Specification	Color	Quantity
1	noumenon	ABS	black	1
2	SMA	SMA-M	Gold	1