SUNNYWAY

SWE043

PN: SW20293EB56



Features:

- Antenna for 2000~6000MHz.
- High gain.
- Impedance 50 Ohm.

Applications:

- Portable Devices.
- Remote monitoring.
- Network Devices.
- Gateways.
- UWB.
- Others.

Sunnyway Technology

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1. Electrical Specifications

Frequency range (MHz)	2000-3000	3000-4000	4000-5000	5000-6000
Peak Gain (dBi)	2.5~4.5	2.1~4.0	2.4~4.3	2.7~4.5
Average Gain (dB)	-2.6~-1.2	-3.4~-1.8	-2.8~-1.7	-2.9~-1.5
VSWR	< 3.0	< 2.5	< 2.5	< 3.0
Return Loss	< -6.0	< -8.0	< -8.0	< -6.0
Efficiency (%)	54.8~75.4	45.8~66.2	53.0~68.0	51.1~71.7
Polarization mode	Linear	Linear	Linear	Linear
Radiation pattern	Omni-Directional	Omni-Directional	Omni-Directional	Omni-Directional
Output impedance (Ω)	50	50	50	50
Max. Input Power(W)	5	5	5	5

2. Mechanical and Environmental Specification

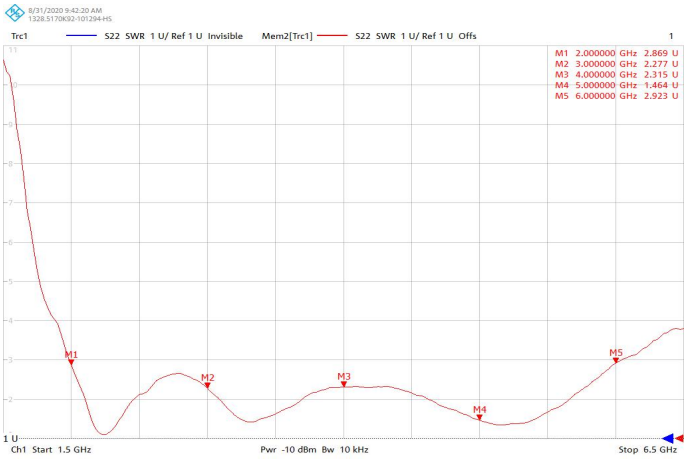
Mounting Type	Connector Mount
Connector Type	SMA-Male Standard (Right-Angle)
Antenna size(mm)	48.6Xφ8mm
Material	ABS
Operating Temperature (˚C)	- 40 ˚C ~ + 85 ˚C
Storage Temperature(˚C)	- 40 ˚C ~ + 85 ˚C

3. Antenna parameters

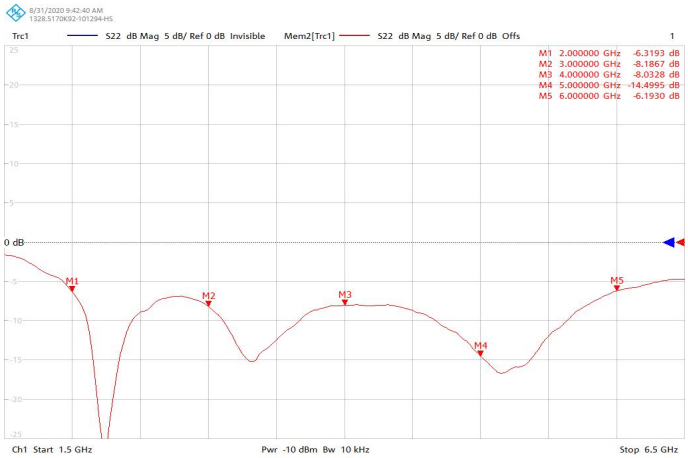
3.1 General Data

FRE (MHz)	2000	3000	4000	5000	6000
VSWR	2.9	2.3	2.3	1.5	2.9
Return Loss	-6.3	-8.2	-8.0	-14.5	-6.2
Eff (%)	56.2	66.2	60.0	60.7	56.4
Average Gain(dB)	-2.5	-1.8	-2.2	-2.2	-2.5

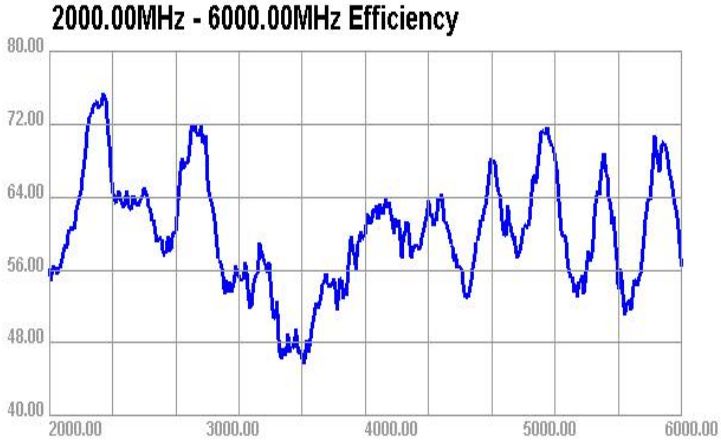
3.2 VSWR



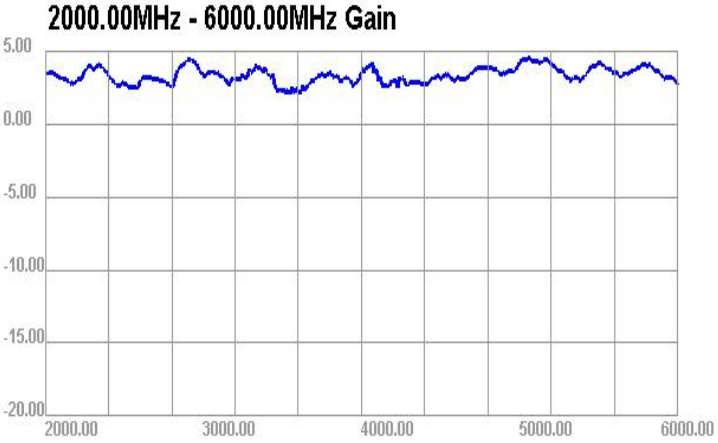
3.3 Return Loss



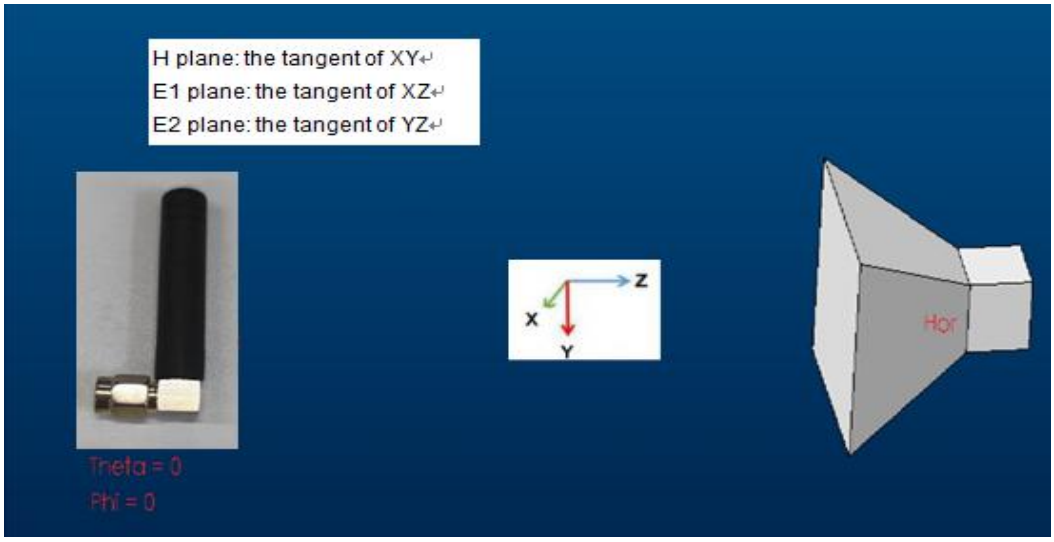
3.4 Efficiency

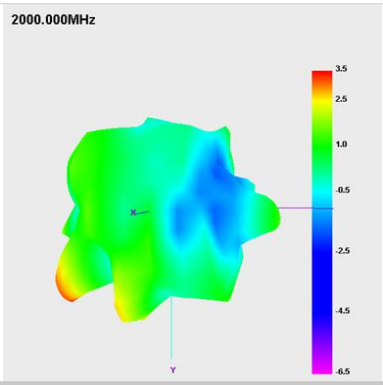


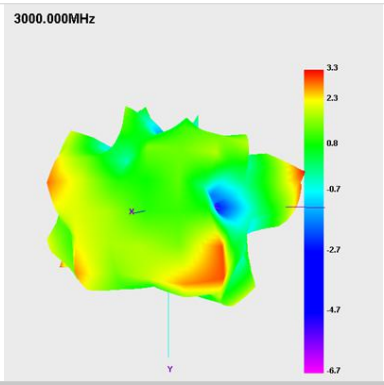
3.5 Gain

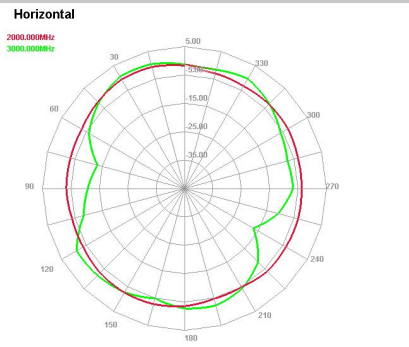


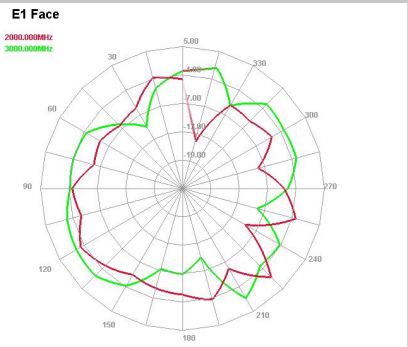
3.6 Directional Pattern

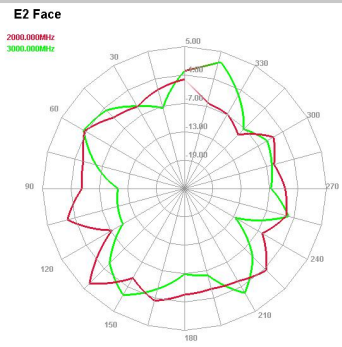


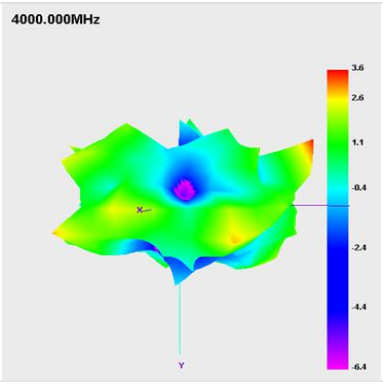

2000.000MHz
3.5
2.5
1.0
-0.5
-2.5
-4.5
-6.5

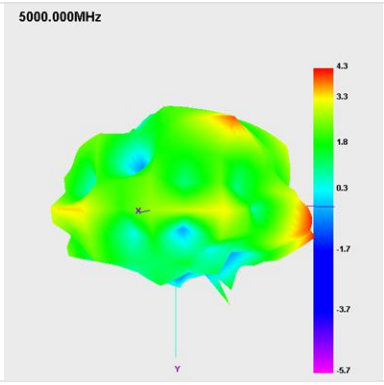

3000.000MHz
3.3
2.3
0.8
-0.7
-2.7
-4.7
-6.7

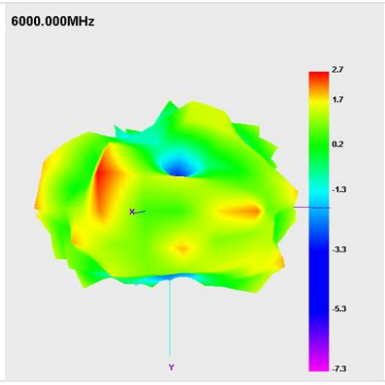

Horizontal
2000.000MHz
3000.000MHz

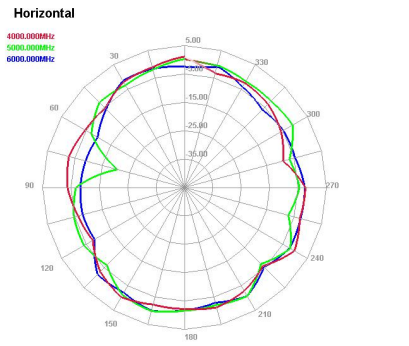

E1 Face
2000.000MHz
3000.000MHz

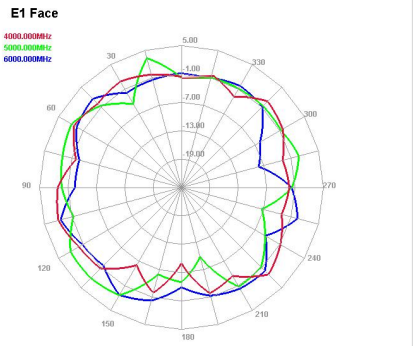

E2 Face
2000.000MHz
3000.000MHz

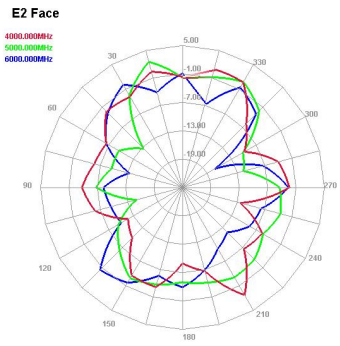

4000.000MHz
3.6
2.6
1.1
-0.4
-2.4
-4.4
-6.4


5000.000MHz
4.3
3.3
1.8
0.3
-1.7
-3.7
-5.7


6000.000MHz
2.7
1.7
0.2
-1.3
-3.3
-5.3
-7.3

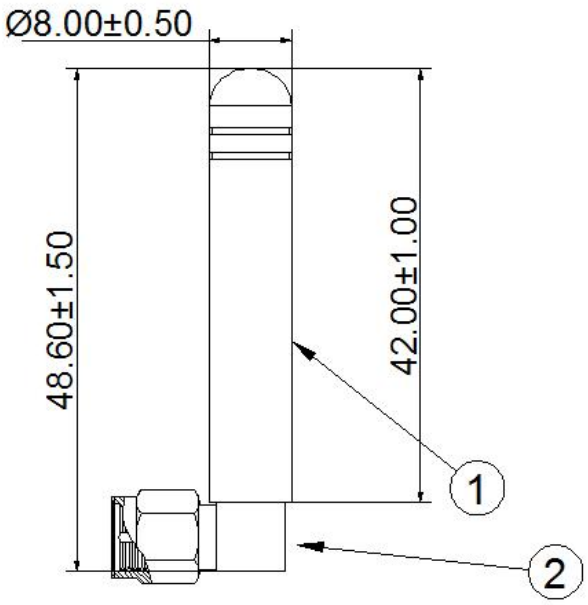

Horizontal
4000.000MHz
5000.000MHz
6000.000MHz


E1 Face
4000.000MHz
5000.000MHz
6000.000MHz


E2 Face
4000.000MHz
5000.000MHz
6000.000MHz

4. Antenna Drawings

Unit:mm



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