SUNNYWAY

SWF009

PN: SW20061IB77



Features:

- Frequency bands from 698~ 960 MHz, 1710~2690MHz
- Impedance 50 Ohm.
- Antenna for LTE applications including MIMO systems.
- Small size, High gain.
- Size 52 x 14 x 0.12mm.

Applications:

- 2G/3G/4G Cellular antenna.
- LTE ,NB-IoT, Cat M1.
- Portable Devices.
- Remote monitoring.
- Network Devices.
- Wearable devices.

Sunnyway Technology
Add: 1F, Building 4, No.421-99, Gaoguang Road, Qingpu District, Shanghai, China
Tel: +86-021-60835368 Web: www.sunny-way.com

1. Electrical Specifications

Standards	4G&3G&2G	
Frequency range (MHz)	698~960MHz	1710~2690MHz
Peak Gain (dBi)	-1.5~1.0	0~5.0
Average Gain (dB)	-7.0~-3.8	-5.0~-0.7
VSWR	< 6.0	< 4.0
Return Loss	< -3.0	< -4.0
Efficiency (%)	20~42	31~85
Polarization mode	Linear	Linear
Radiation pattern	Omni-Directional	Omni-Directional
Output impedance (Ω)	50	50
Max. Input Power(W)	25	25

2. Mechanical and Environmental Specification

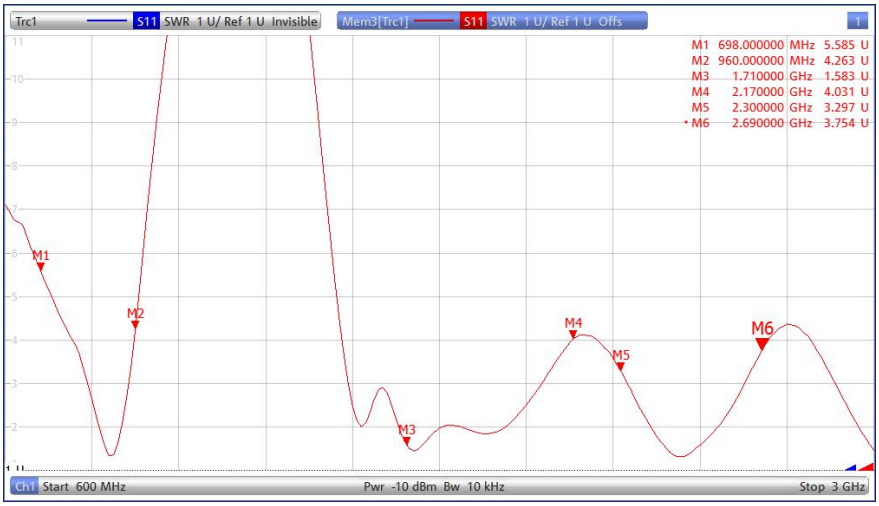
Mounting Type	Adhesive
Adhesive Type	3M467
Connector Type	U.FL Standard
Antenna size(mm)	52mm (L) x14mm (W) x0.12mm (H)
Material	FPC
Cable length(mm)	70mm
Operating Temperature (˚C)	- 40 ˚C ~ + 85 ˚C
Storage Temperature(˚C)	- 40 ˚C ~ + 85 ˚C

3. Antenna parameters

3.1 General Data

FRE (MHz)	698	960	1710	2170	2300	2690
VSWR	5.58	4.26	1.58	4.03	3.29	3.75
Return Loss	-3.14	-4.15	-13.00	-4.40	-5.44	-4.74
Eff (%)	41.1	22.6	31.6	43.6	51.2	81.7
Average	-3.8	-6.5	-5.0	-3.6	-2.4	-0.9

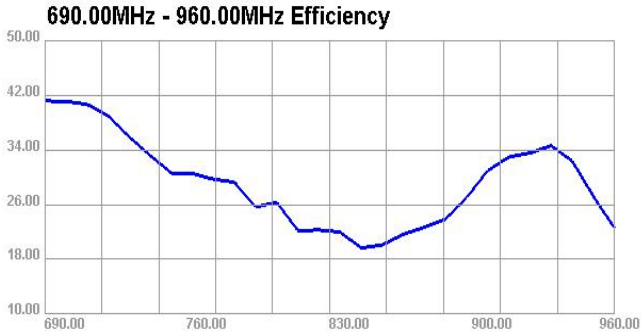
3.2 VSWR

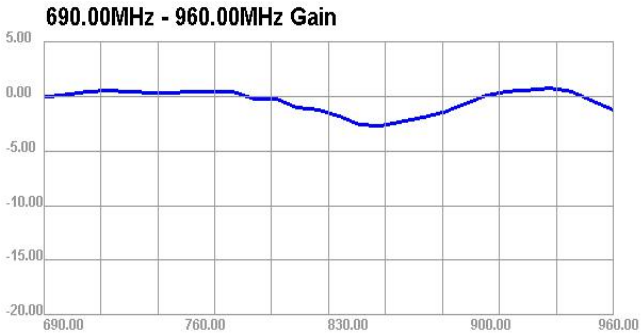


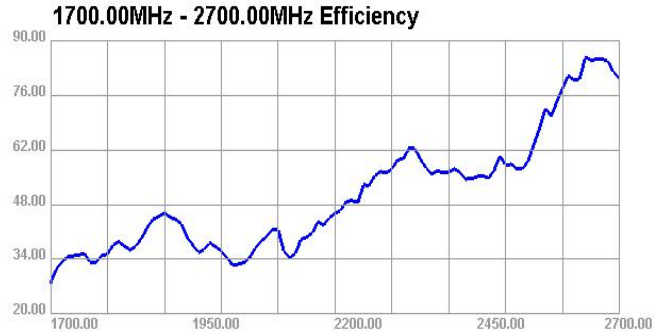
3.3 Return Loss

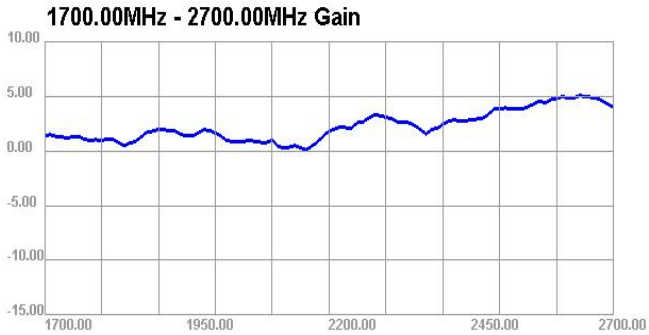


3.4 Efficiency and Gain

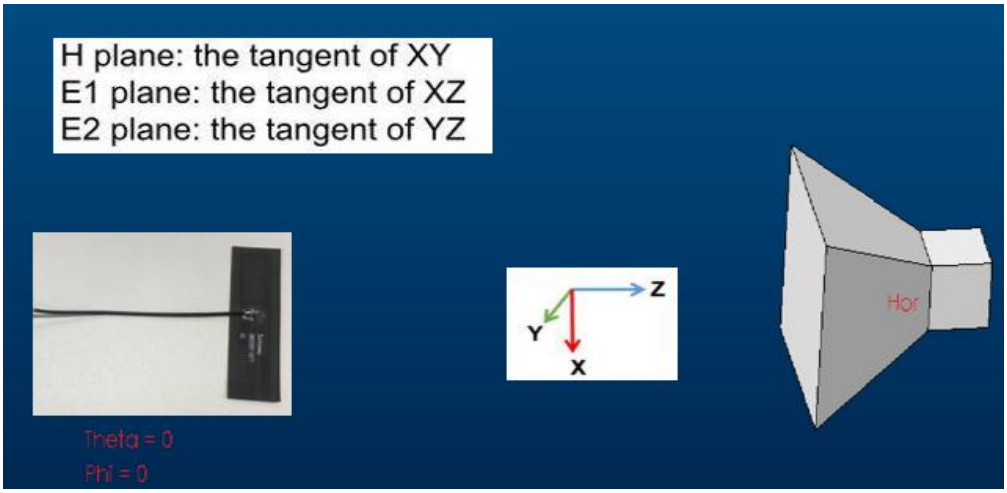


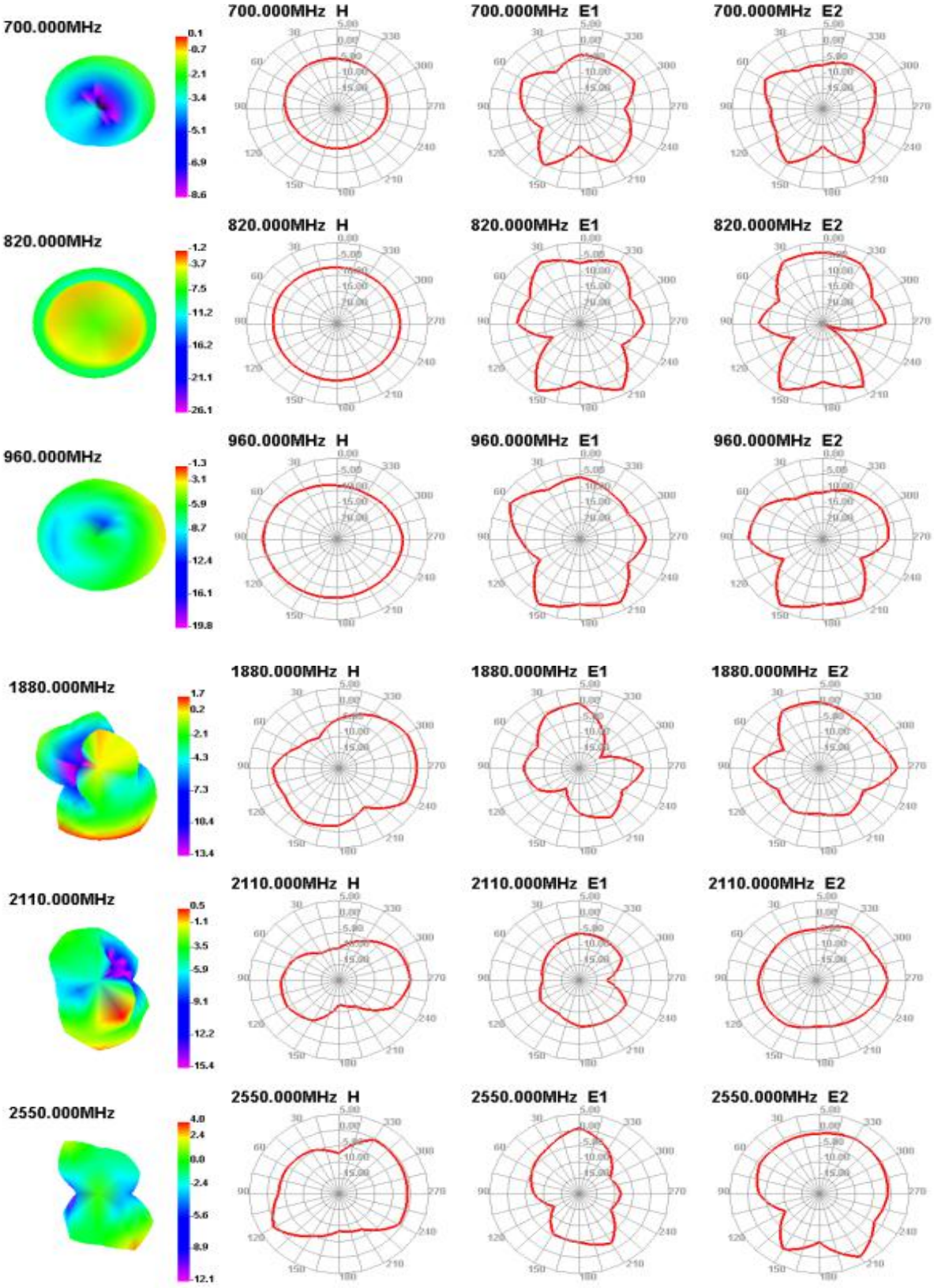






3.5 Directional pattern




700.000MHz
700.000MHz H
700.000MHz E1
700.000MHz E2
820.000MHz
820.000MHz H
820.000MHz E1
820.000MHz E2
960.000MHz
960.000MHz H
960.000MHz E1
960.000MHz E2
1880.000MHz
1880.000MHz H
1880.000MHz E1
1880.000MHz E2
2110.000MHz
2110.000MHz H
2110.000MHz E1
2110.000MHz E2
2550.000MHz
2550.000MHz H
2550.000MHz E1
2550.000MHz E2

4. Antenna Drawings

