SWFG003

PN: SW20271EA63

Features:

- Antenna for 4G&3G&2G
- Maintains high performance on device.
- Impedance 50 Ohm.

Applications:

- Application of LTE/NB-LOT/ CATM equipment.
- Suitable for all kinds of harsh environments

Sunnyway Technology

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1. Electrical Specifications

Standards	4G&3G&2G	
Frequency range(MHz)	700~960	1710~2700
Peak Gain (dBi)	-6.0~2.5	0.5~4.0
Average Gain (dB)	-9.9~-1.7	-4.3~-2.0
VSWR	3.7	2.3
Return Loss	-5.1	-8.1
Efficiency (%)	10.4~67.1	37.6~63.7
Horizontal Beamwidth	360º	360º
Vertical Beamwidth	55±3º	55±3º
Impedance	50Ω	50Ω
Polarization	Vertical polarization	Vertical polarization
Max. Power	50W	50W
Connector	SMA-M	SMA-M
Lightning Protection	DC grounding	DC grounding

2. Mechanical and Environmental Specification

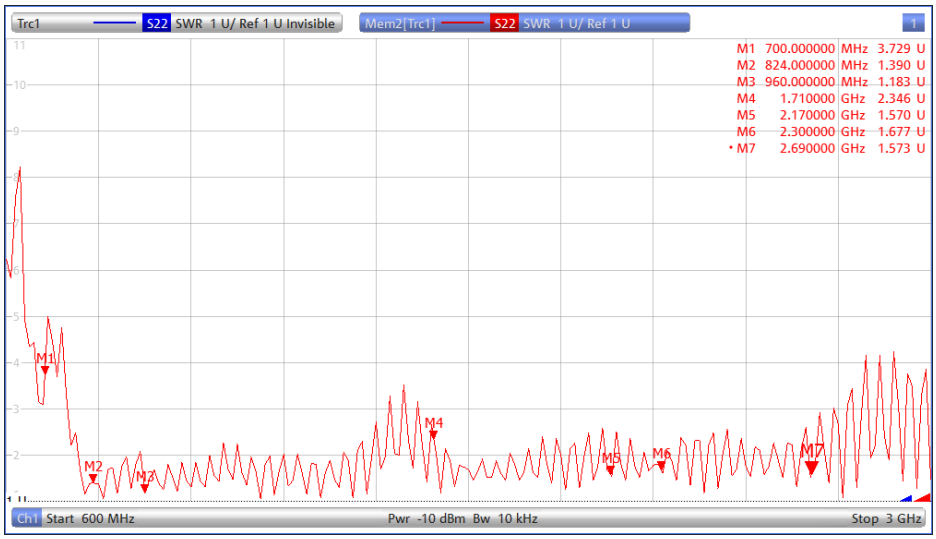
Dimension(mm)	Φ20.2*228.8 mm
Weight（g）	149g
Rated Wind Velocity	36.9 m/s
Operational Humidity	< 95
Operating temperaturec	-40～55
Radome material	Plastic

3. Antenna parameters

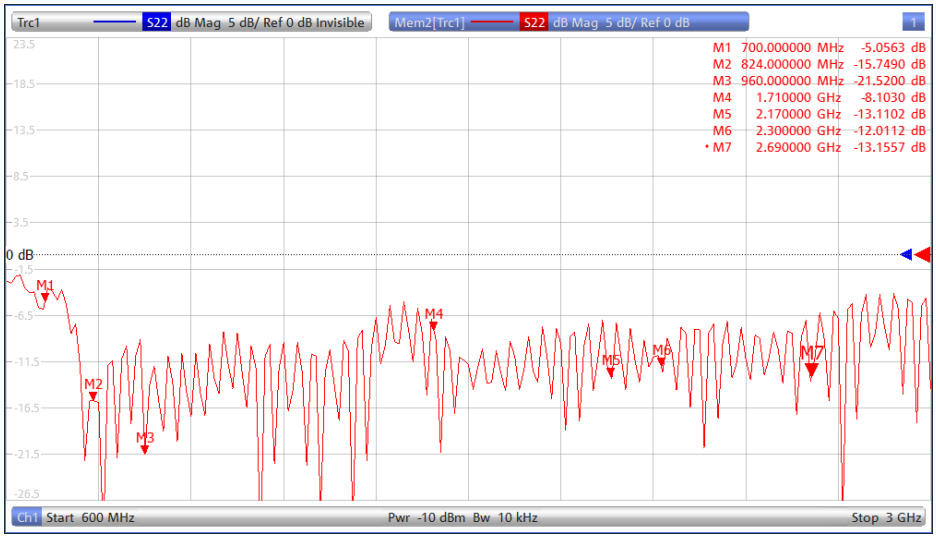
3.1 General Data

FRE (MHz)	700	824	960	1710	2170	2300	2690
VSWR	3.7	1.4	1.2	2.3	1.6	1.7	1.6
Return Loss	-5.1	-15.7	-21.5	-8.1	-13.1	-12.0	-13.2
Eff (%)	11.5	65.0	54.4	58.1	46.0	61.4	52.3
Average Gain(dB)	-9.4	-1.8	-2.6	-2.4	-3.4	-2.1	-2.8

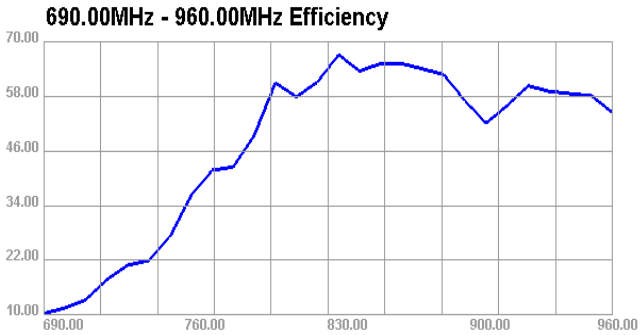
3.1.1 VSWR

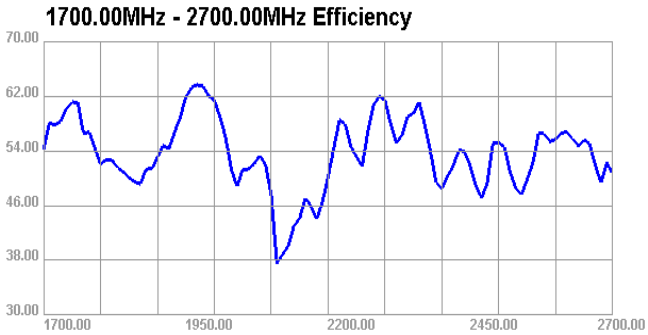


3.1.2 Return Loss

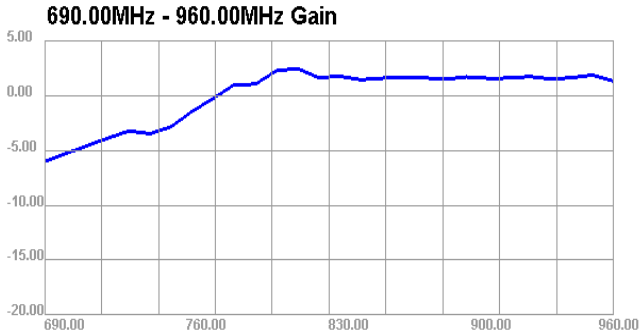


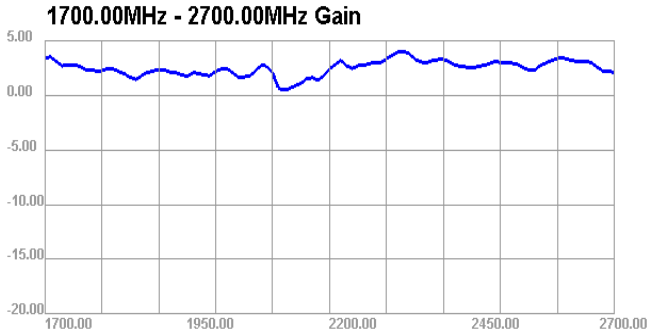
3.1.3 Efficiency



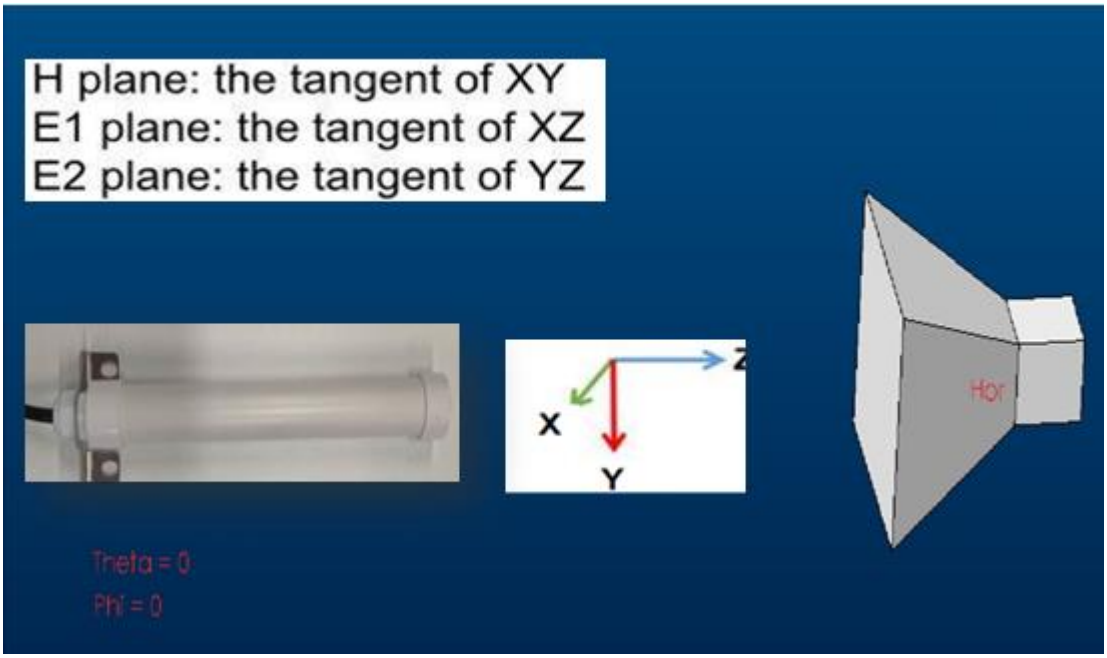


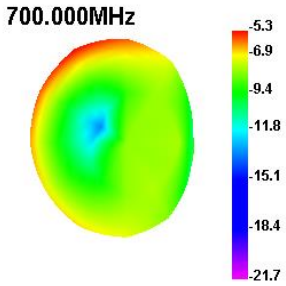
3.1.4 Gain

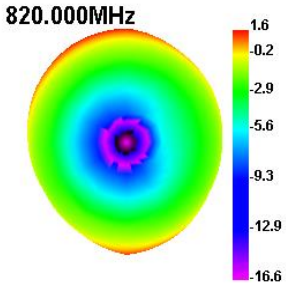


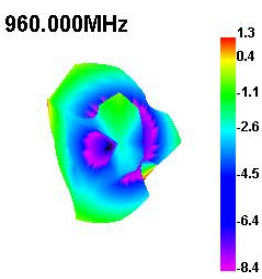


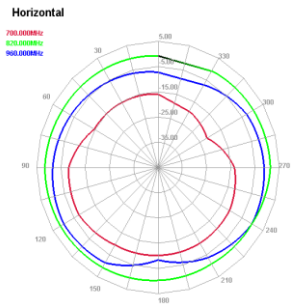
3.1.5 Directional Pattern

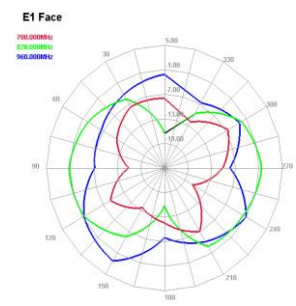


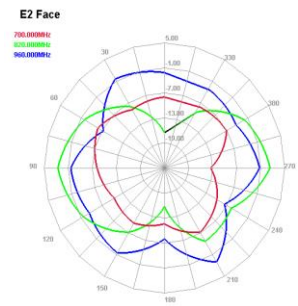

700.000MHz
-5.3
-6.9
-9.4
-11.8
-15.1
-18.4
-21.7

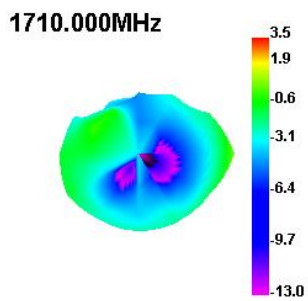

820.000MHz
1.6
-0.2
-2.9
-5.6
-9.3
-12.9
-16.6

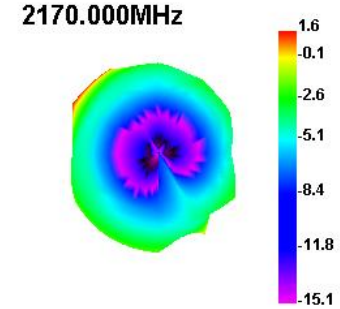

960.000MHz
1.3
0.4
-1.1
-2.6
-4.5
-6.4
-8.4

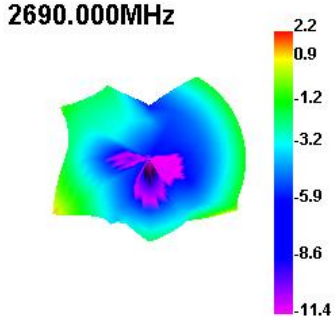

Horizontal

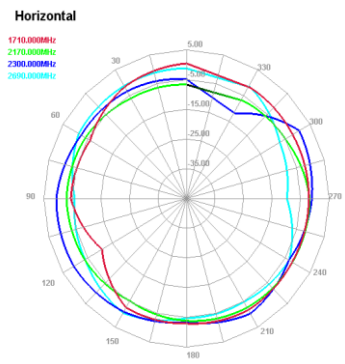

E1 Face

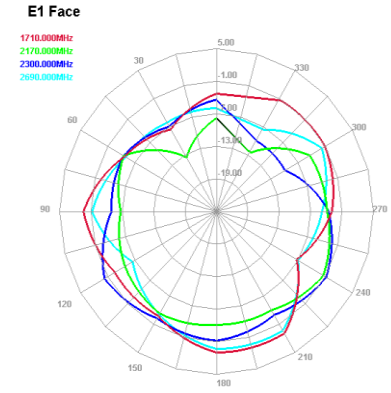

E2 Face

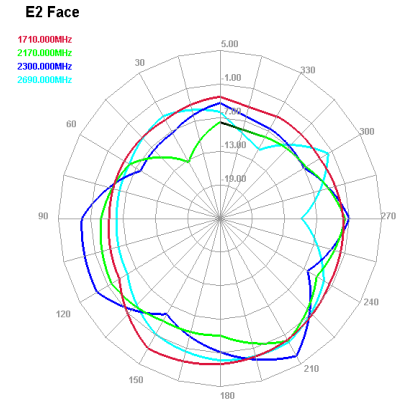

1710.000MHz
3.5
1.9
-0.6
-3.1
-6.4
-9.7
-13.0


2170.000MHz
1.6
-0.1
-2.6
-5.1
-8.4
-11.8
-15.1


2690.000MHz
2.2
0.9
-1.2
-3.2
-5.9
-8.6
-11.4


Horizontal
1710.000MHz
2170.000MHz
2300.000MHz
2690.000MHz


E1 Face
1710.000MHz
2170.000MHz
2300.000MHz
2690.000MHz


E2 Face
1710.000MHz
2170.000MHz
2300.000MHz
2690.000MHz

4.Antenna Drawing