SWE034

PN: SW20059EB56



Features:

- Frequency bands from 698~ 960 MHz 1710~2690MHz .
- Impedance 50 Ohm.
- Antenna for LTE applications including MIMO systems.
- Maintains high performance on device.

Applications:

- Suitable for all kinds of harsh environments.

Sunnyway Technology

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1. Electrical Specifications

Standards	4G&3G&2G	
Frequency range (MHz)	698~960MHz	1710~2690MHz
Peak Gain (dBi)	-0.5~3.0	1.0~5.0
Average Gain (dB)	-4.0~-3.2	-4.3~-2.1
VSWR	< 4.5	< 5.0
Return Loss	< -4.0	< -3.5
Efficiency (%)	40~48	38~62
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

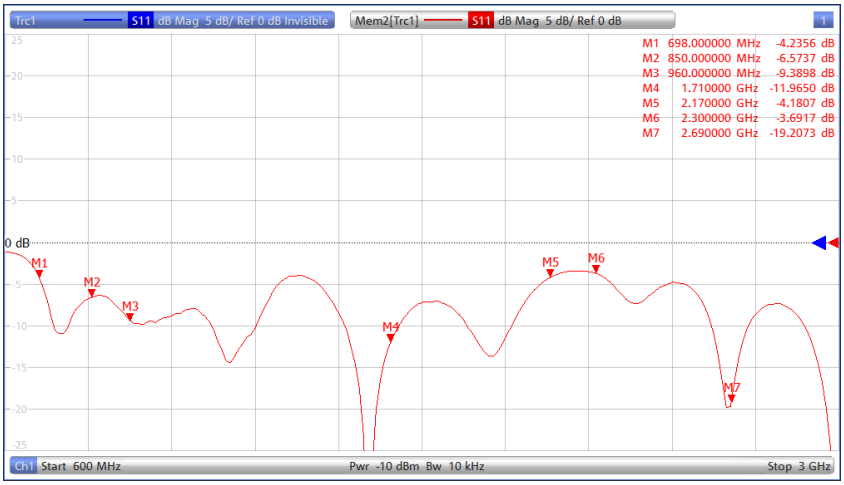
Mounting Type	Connector Mount
Connector Type	SMA
Antenna size(mm)	159 x 17.5mm
Material	ABS
Operating Temperature (˚C)	- 40 ˚C ~ + 85 ˚C
Storage Temperature(˚C)	- 40 ˚C ~ + 85 ˚C

3. Antenna parameters

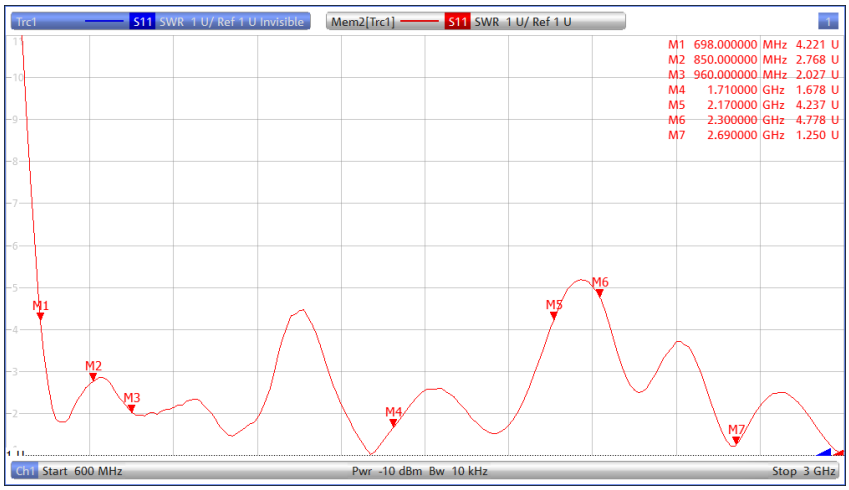
3.1 General Data

FRE (MHz)	698	850	960	1710	2170	2300	2690
VSWR	4.22	2.76	2.02	1.67	4.23	4.77	1.25
Return Loss	-4.23	-6.57	-9.38	-11.96	-4.18	-3.69	-19.20
Eff (%)	40.0	44.0	48.2	60.2	43.9	49.9	54.4
Average	-4.0	-3.6	-3.2	-2.2	-3.6	-3.0	-2.6

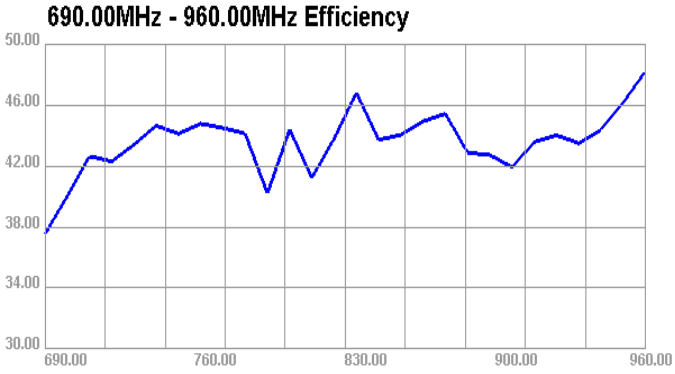
3.2 VSWR

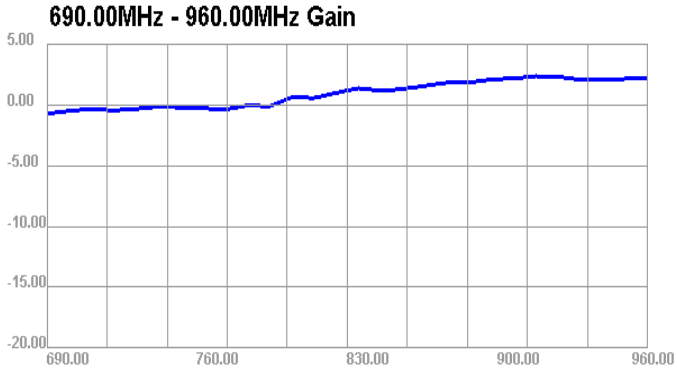


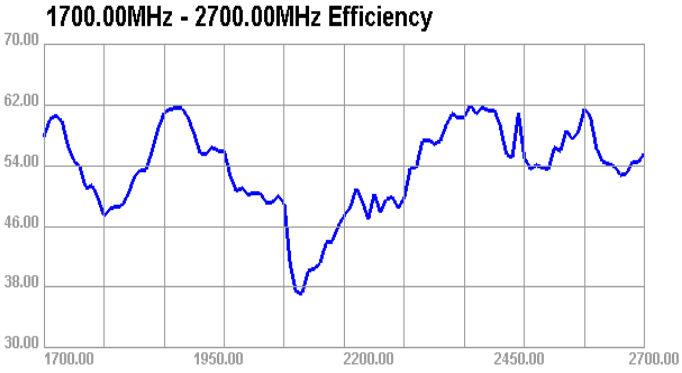
3.3 Return Loss

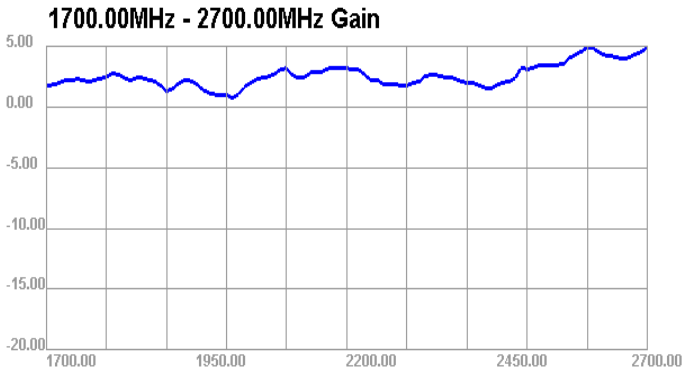


3.4 Efficiency and Gain

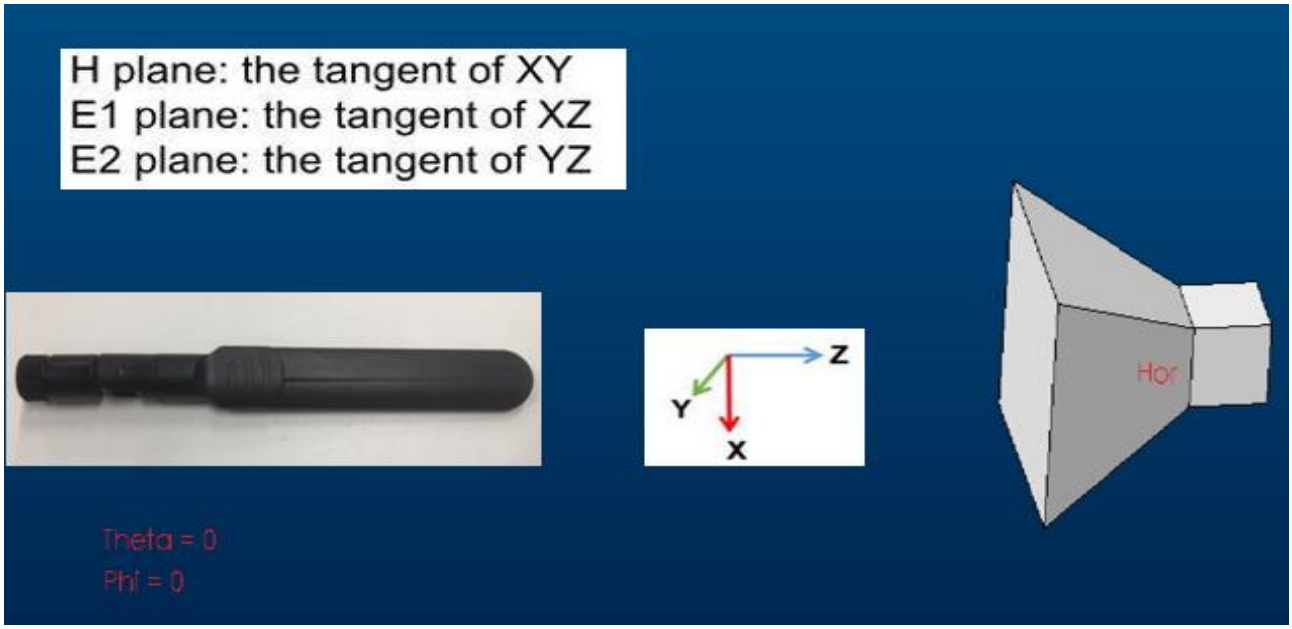


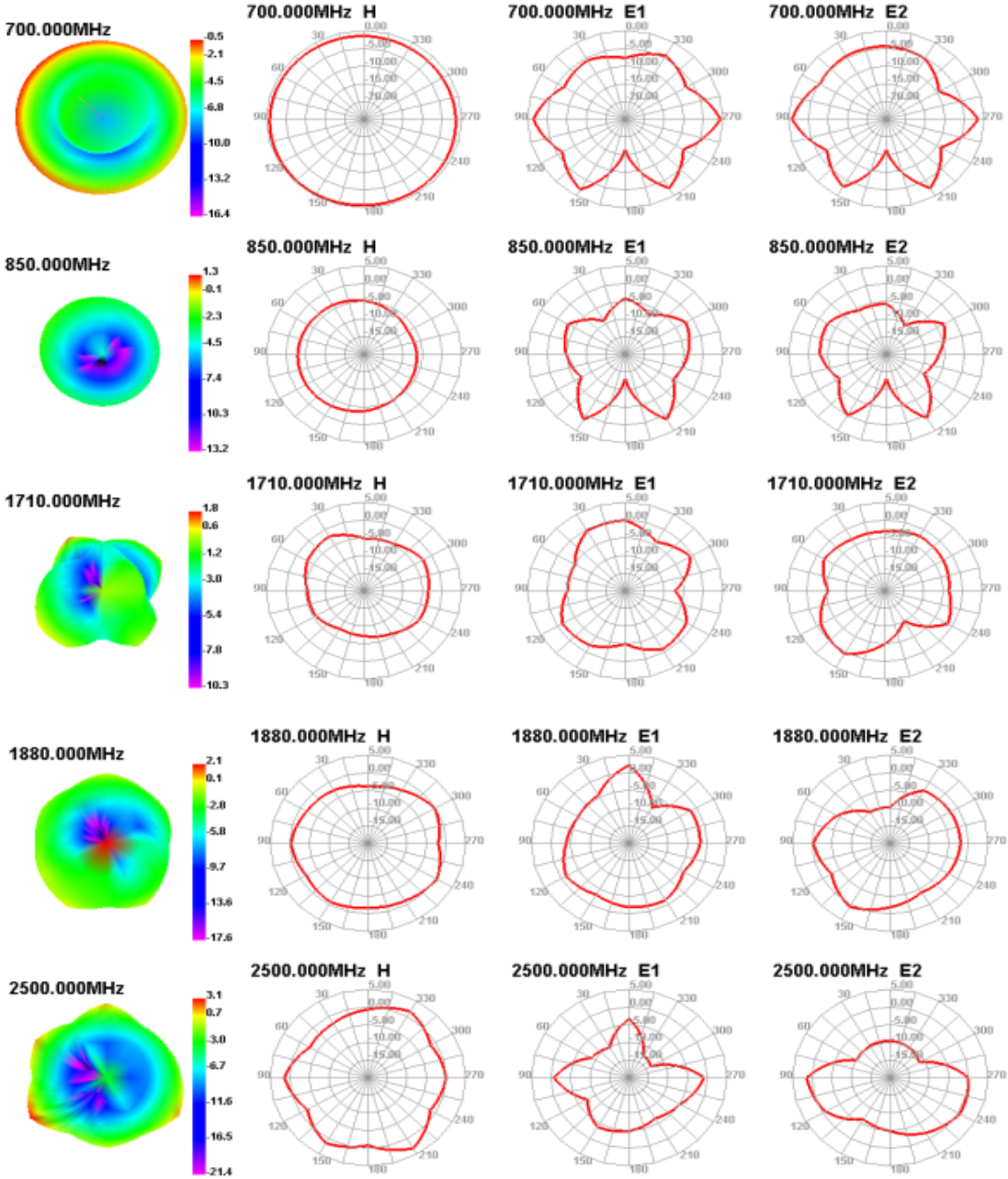




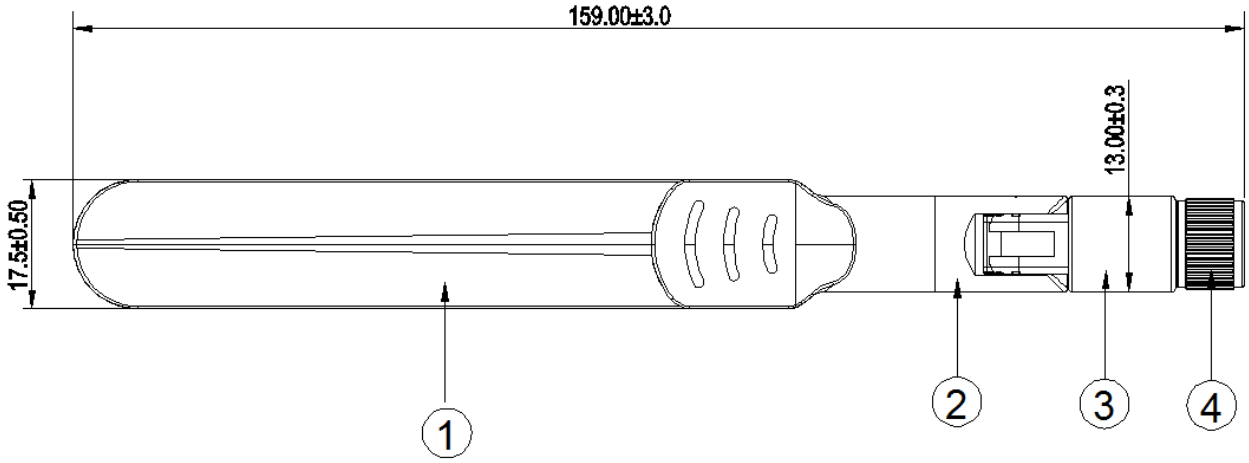


3.5 Directional pattern




700.000MHz
700.000MHz H
700.000MHz E1
700.000MHz E2
850.000MHz
850.000MHz H
850.000MHz E1
850.000MHz E2
1710.000MHz
1710.000MHz H
1710.000MHz E1
1710.000MHz E2
1880.000MHz
1880.000MHz H
1880.000MHz E1
1880.000MHz E2
2500.000MHz
2500.000MHz H
2500.000MHz E1
2500.000MHz E2

4. Antenna Drawing



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