



SWE036

PN: SW20277EB56



Features

- Antenna for 824~960 MHz, 1710~1990MHz
- High gain
- Impedance 50 Ohm.

Applications:

- Antenna for 3G/ 2G applications

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1. Electrical Specifications

Standards	3G&2G	
Frequency range (MHz)	824~960	1710~1990
Peak Gain (dBi)	1.0~3.1	3.8~5.7
Average Gain (dB)	-3.9~-0.8	-2.7~-1.6
VSWR	< 1.9	< 1.9
Return Loss	< -10.5	< -10.0
Efficiency (%)	40.7~82.5	53.3~68.7
Polarization mode	Linear	Linear
Radiation pattern	Omni-Directional	Omni-Directional
Output impedance (Ω)	50	50
Max. Input Power(W)	25	25

Note:

Debug based on 100 mm wire length

2. Mechanical and Environmental Specification

Mounting Type	Connector Mount
Connector Type	SMA (3M)
Antenna size(mm)	116.0*22.0*5.3mm
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)	824	960	1710	1990
VSWR	1.8	1.9	1.5	1.9
Return Loss	-11.2	-10.5	-13.7	-10.0
Eff (%)	42.1	71.9	60.6	53.3
Average Gain(dB)	-3.8	-1.4	-2.2	-2.7

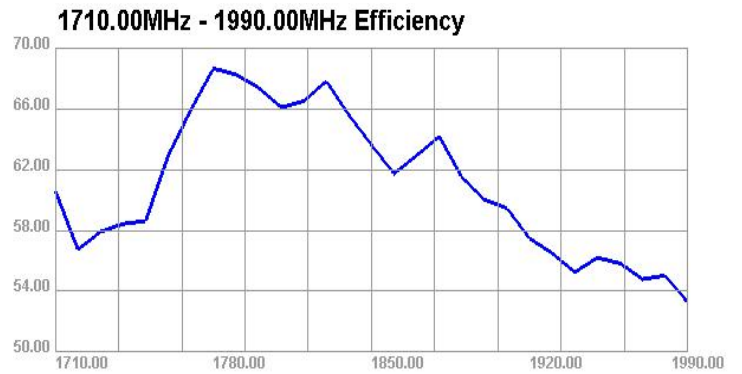
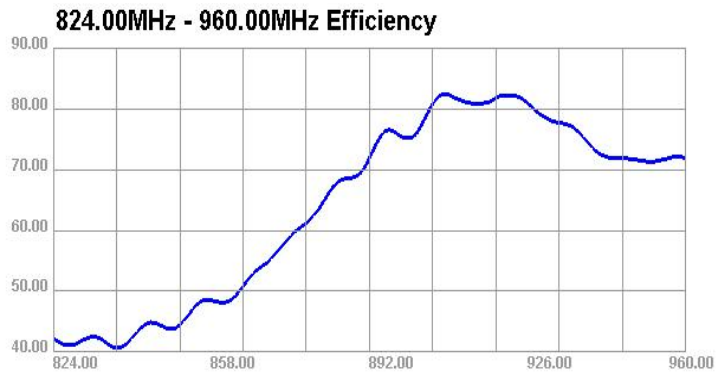
3.2 VSWR



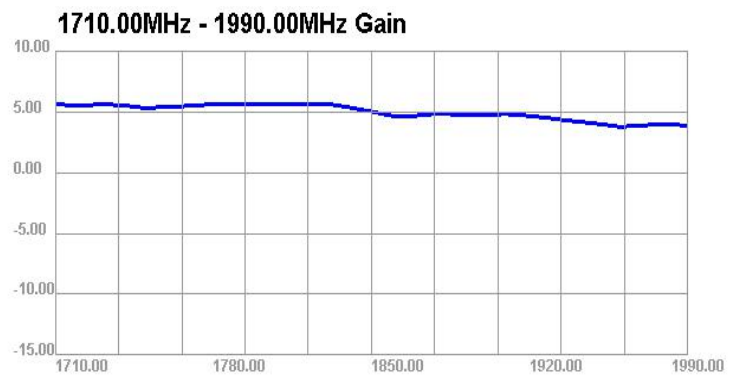
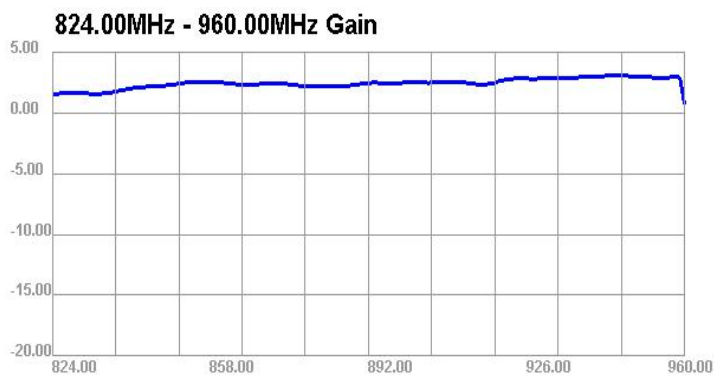
3.3 Return Loss



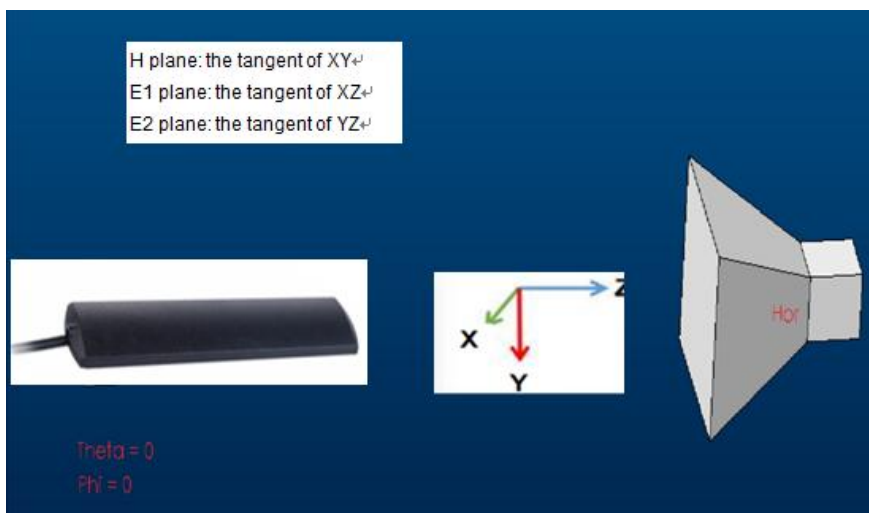
3.4 Efficiency

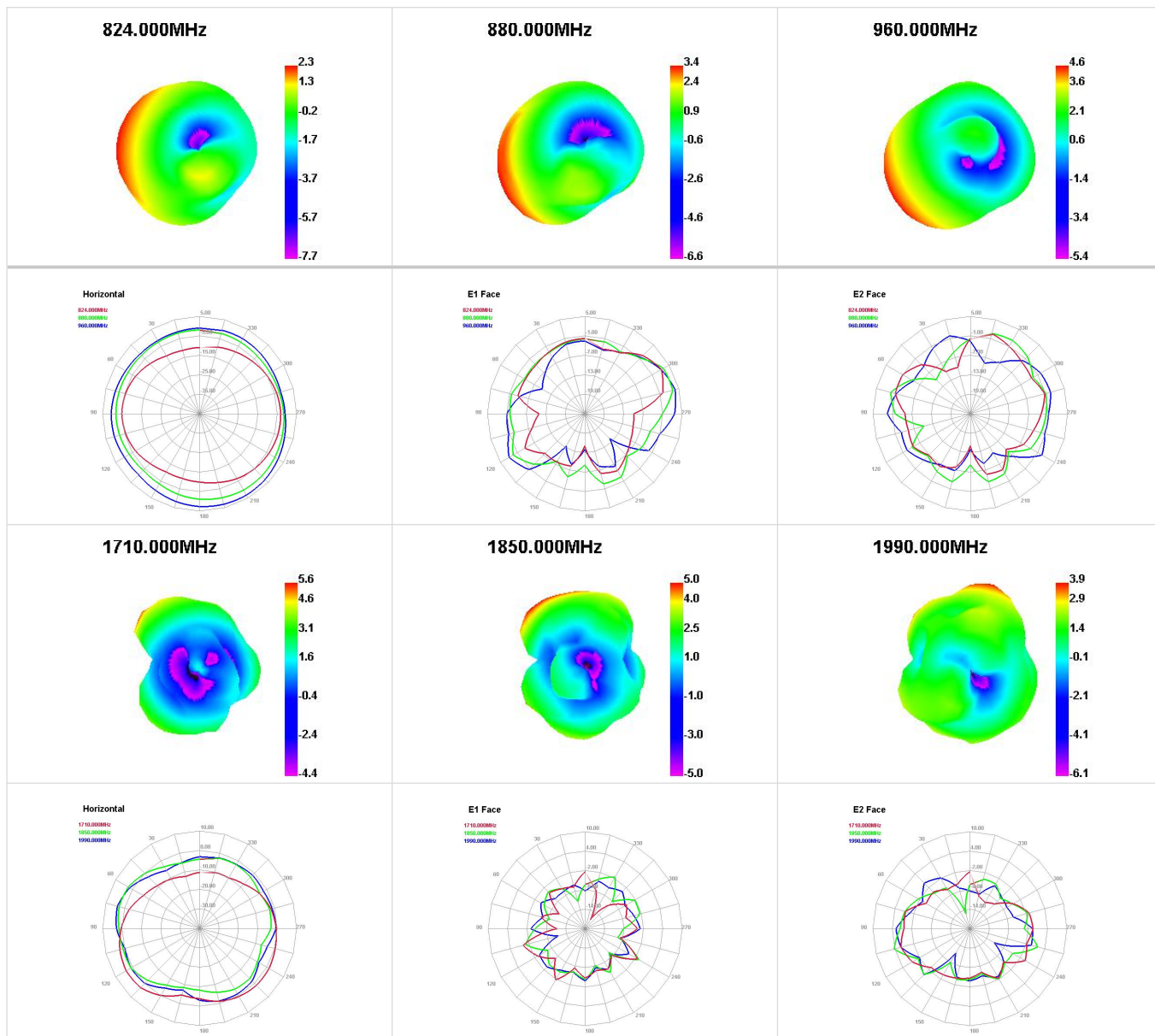


3.5 Gain

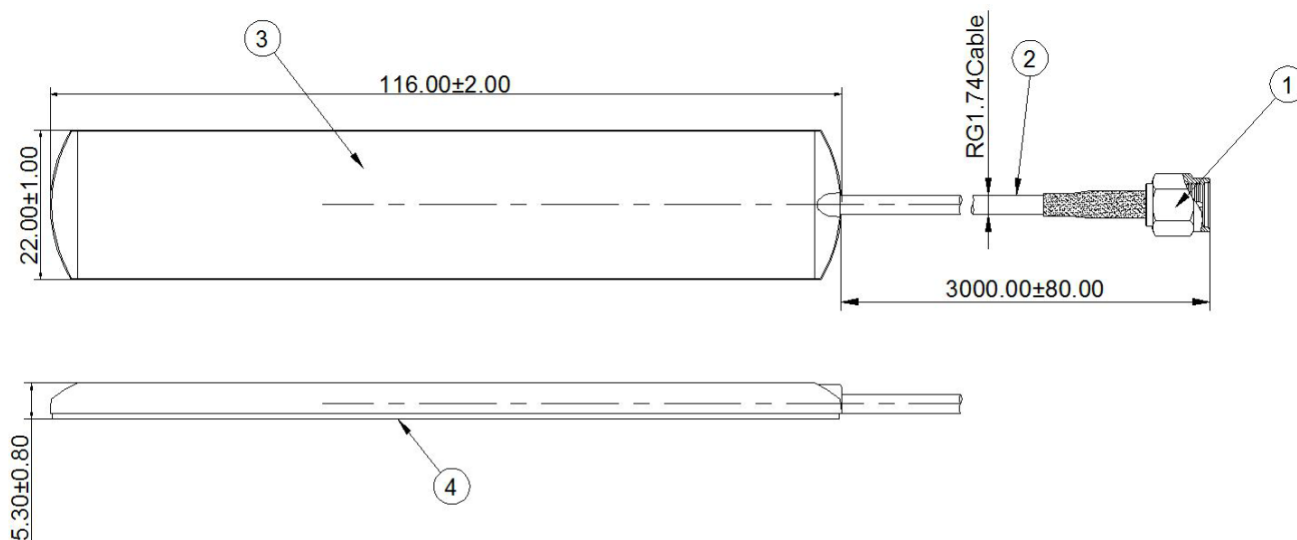


3.6 Directional Pattern





4. Antenna Drawings



Series	Component name	Specification	Color	Quantity
1	SMA	SMA-J	gold	1
2	RG174cable	RG174 cable, 3010mm	black	1
3	shell	ABS	black	1
4	Adhesive	3M VHB 0,8mm	black	1

Note: Cable Loss

20℃ 时衰减（允许 误差15%） Attenuation constant at 20℃（Permissible error 15%）	200MHz	dB/100m	39
	400MHz	dB/100m	58
	900MHz	dB/100m	90
	1500MHz	dB/100m	117
	1800MHz	dB/100m	128
	2000MHz	dB/100m	139
	2500MHz	dB/100m	156