



SUNNYWAY



## SWF013

PN: SW21017IB77

### Features:

- Antenna for 824~960MHz, 1710~2170MHz.
- Foldable for tight spaces.
- Impedance 50 Ohm.

### Applications:

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

**Sunnyway Technology**

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## 1. Electrical Specifications

Standards	3G&2G	
Frequency range (MHz )	824~960MHz	1710~2170MHz
Peak Gain (dBi )	-3.7~-2.1	2.2~6.5
Average Gain (dB )	-6.8~-5.7	-4.5~-3.0
VSWR	< 4.5	< 2.0
Return Loss	< -4.0	< -10.0
Efficiency (%)	20~27	35~50
Polarization mode	Linear	Linear
Radiation pattern	Omni-Directional	Omni-Directional
Output impedance ( $\Omega$ )	50	50
Max. Input Power(W)	5	5

**Note:** Tested with 100mm cable length

## 2. Mechanical and Environmental Specification

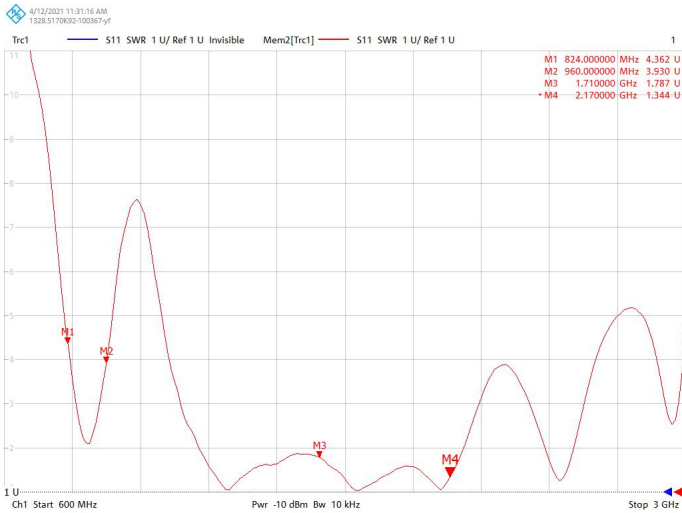
Mounting Type	Adhesive
Adhesive Type	3M9471LSE
Connector Type	IPEX MHF1
Antenna size(mm)	40.40*15.40
Material	FPC
Cable length(mm)	100mm
Operating Temperature (°C)	- 40 °C ~ 85 °C
Storage Temperature(°C)	- 40 °C ~ 85 °C

# 3. Antenna parameters

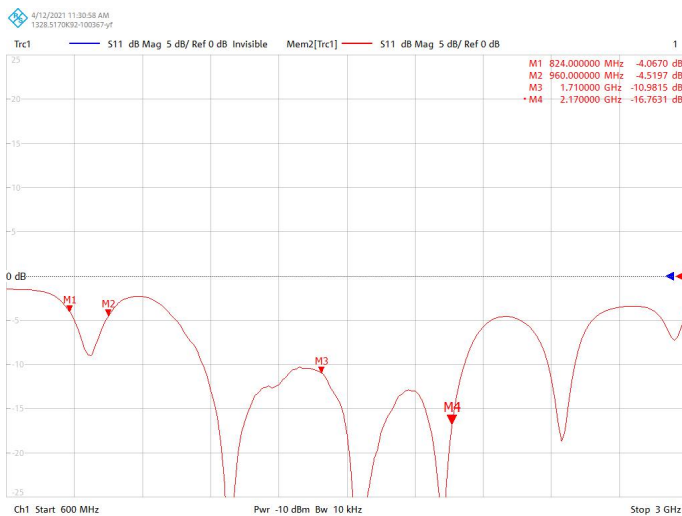
## 3.1 General Data

FRE ( MHz )	824	960	1710	2170
VSWR	4.3	3.9	1.7	1.3
Return Loss	-4.0	-4.5	-10.9	-16.7
Eff (%)	26.9	20.8	36.9	35.3
Average Gain(dB)	-5.7	-6.8	-4.3	4.5

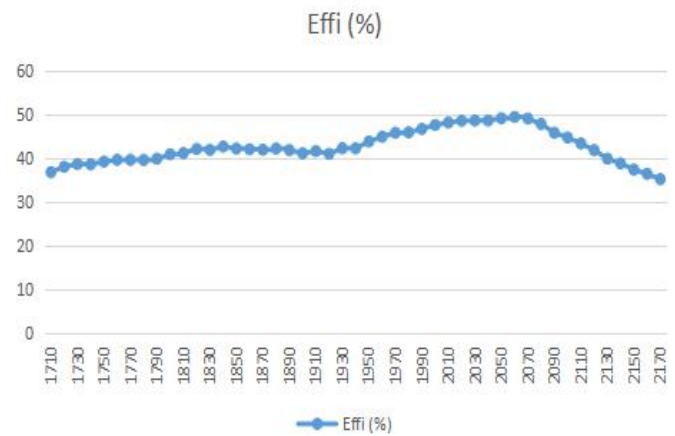
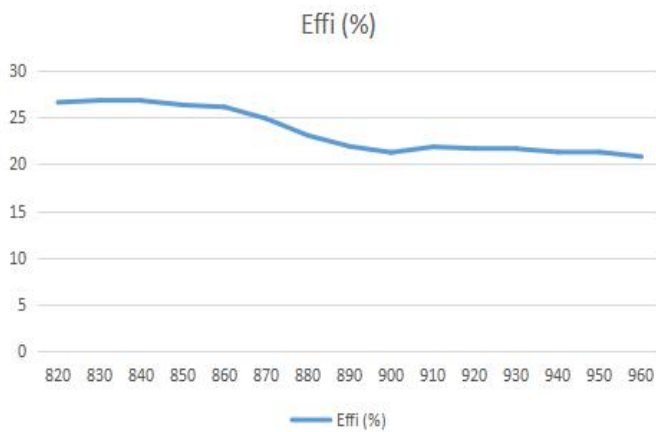
## 3.2 VSWR



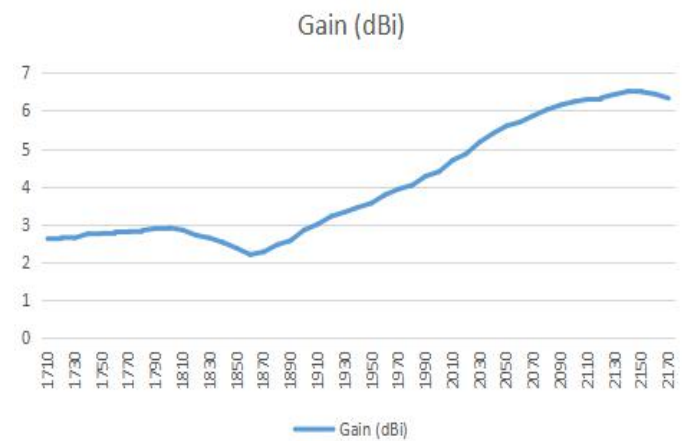
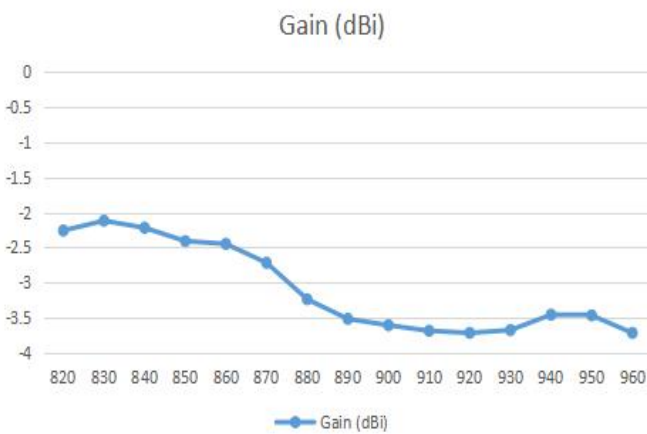
## 3.3 Return Loss



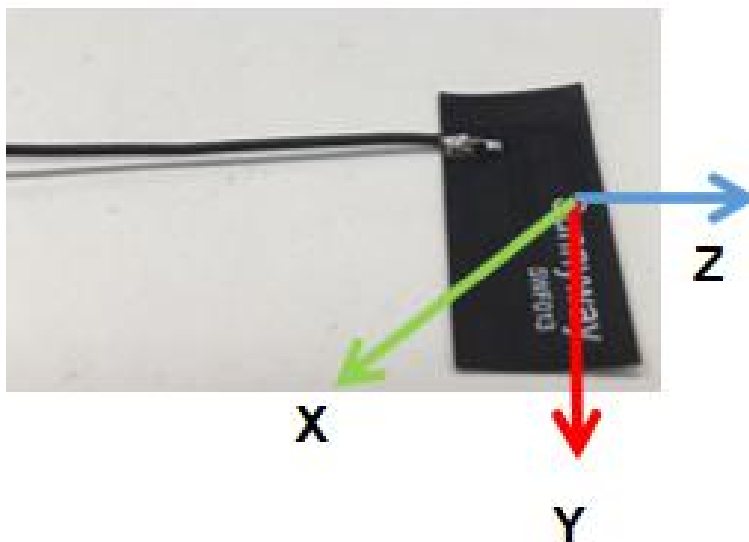
### 3.4 Efficiency

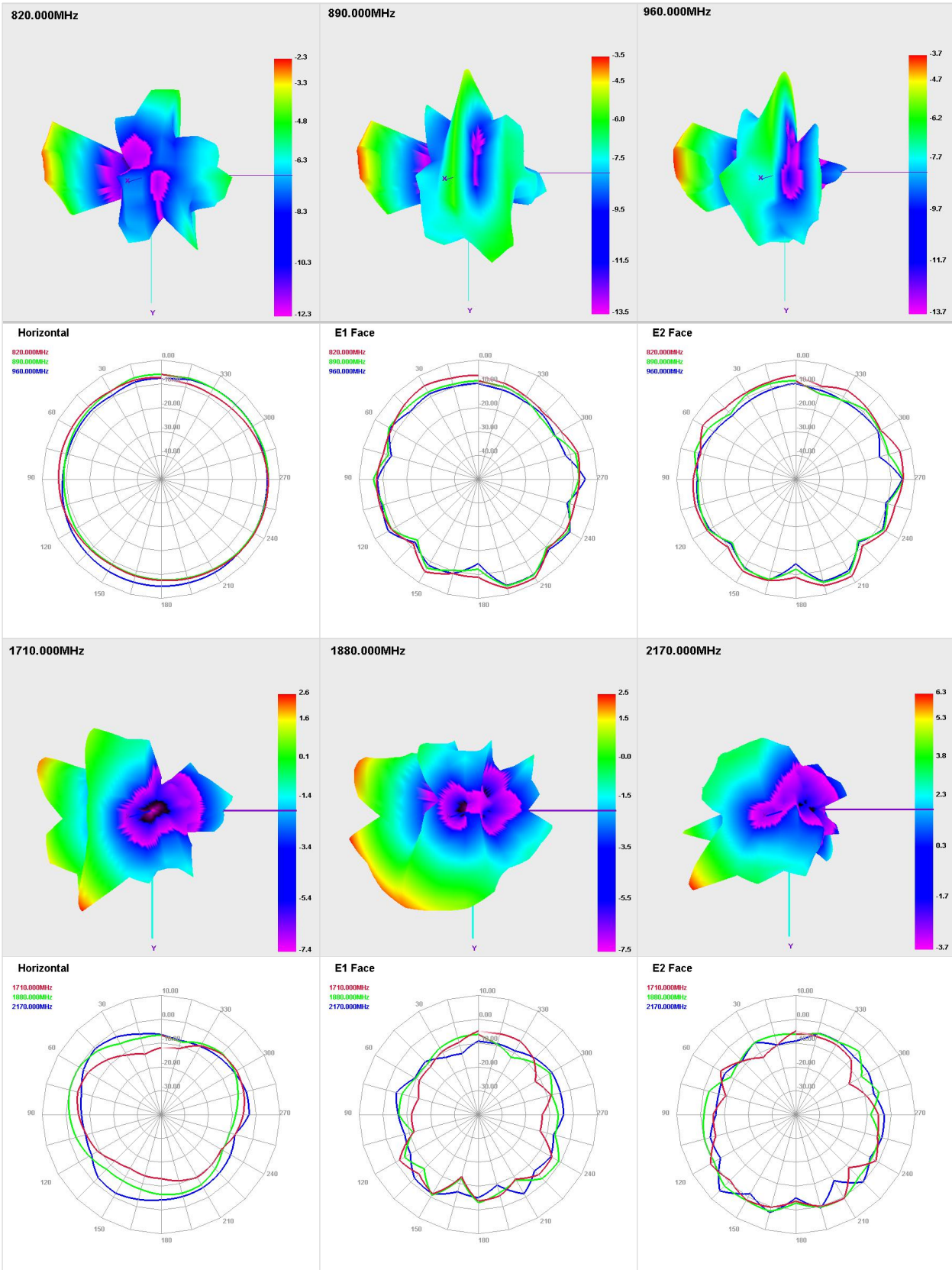


### 3.5 Gain



### 3.6 Directional Pattern







### 4. Antenna Drawings(Unit:mm)

