



# **SWE002**

**PN: SW19032EB78**



**Sunnyway Technology**

Add: Building 65-302, No.421 Hongcao Road, Xuhui District, Shanghai  
Tel: +86-021-6484 2326 Fax: +86-021-6484 2328  
Email: sales@sunny-way.com Web: www.sunny-way.com

## 1. Electrical Specifications

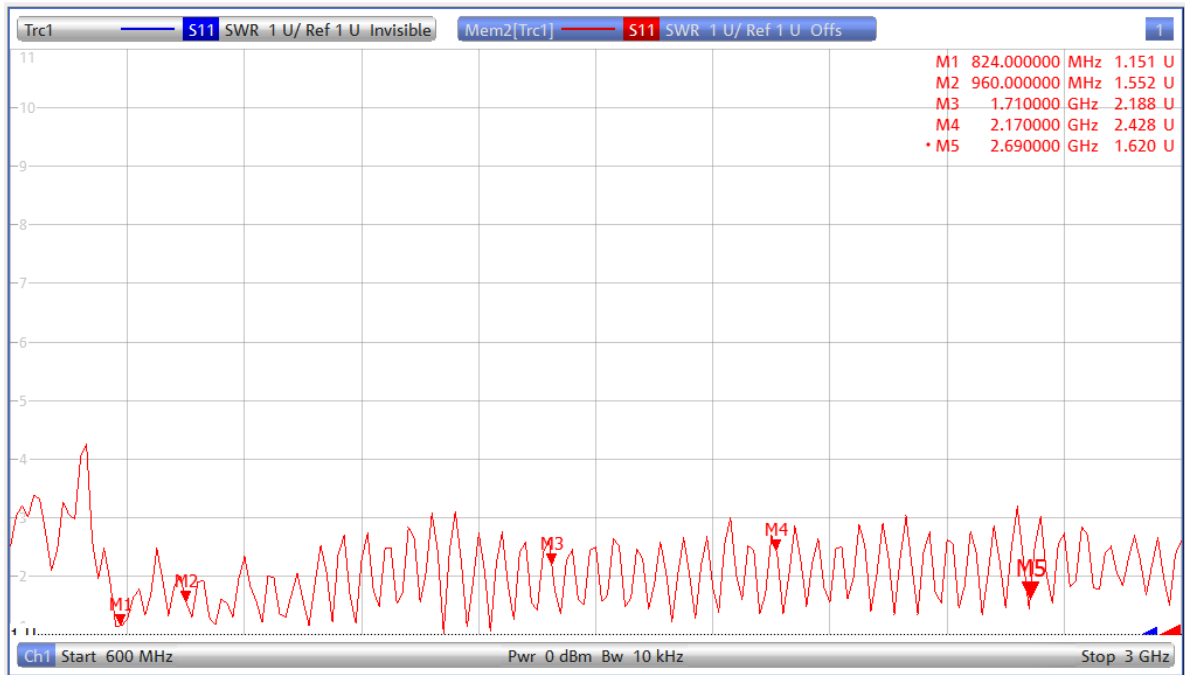
Standards	4G&3G&2G	
Frequency range (MHz)	824~960MHz	1710~2690MHz
Peak Gain (dBi)	-0.5~1.5dBi	-2.5~-0.5dBi
Average Gain (dB)	-3.9~-2.9dB	-7.5~-5.2dB
VSWR	< 2.5	< 3.0
Return Loss	< -7.0	< -6.0
Polarization mode	Linear	Linear
Efficiency (%)	40~51%	18~30%
Radiation pattern	Omni-Directional	Omni-Directional
Output impedance ( $\Omega$ )	50	50
Max. Input Power(W)	25	25

## 2. Mechanical and Environmental Specification

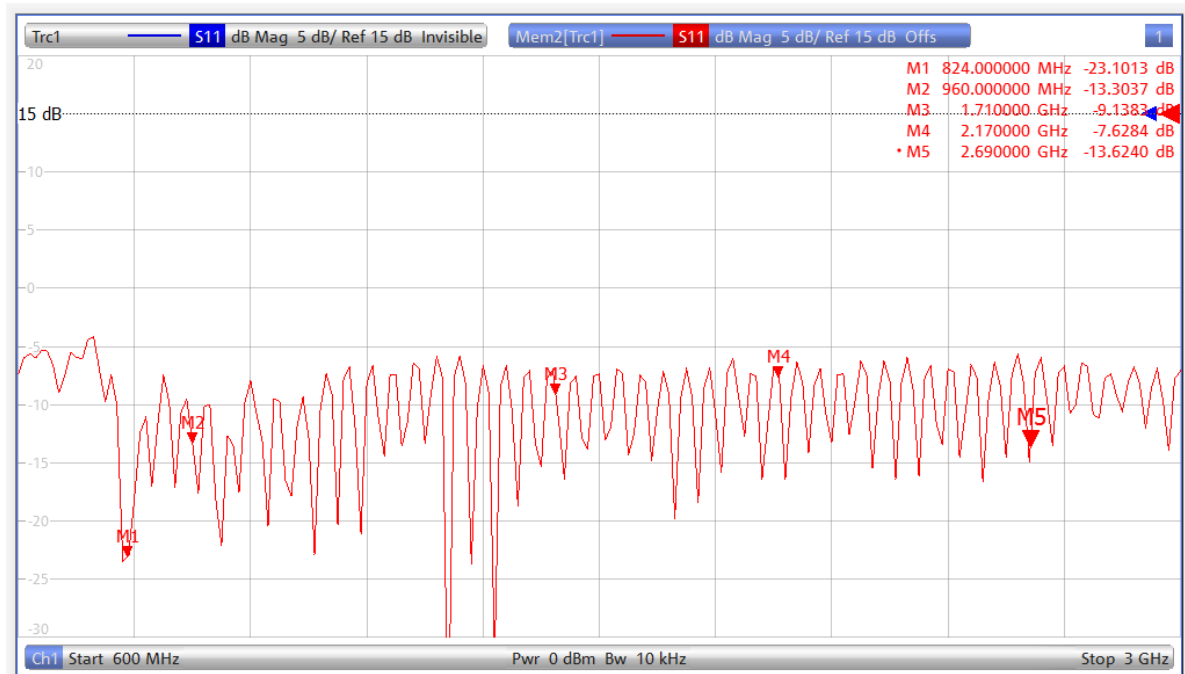
Mounting Type	Connector Mount
Connector Type	SMA (2M)
Antenna size(mm)	$\phi$ 46.5mm*185mm
Material	ABS+PC
Operating Temperature (°C)	- 40 °C ~ + 85 °C
Storage Temperature(°C)	- 40 °C ~ + 85 °C

### 3. Antenna parameters

FRE (MHz)	824	960	1710	2170	2690
<b>VSWR</b>	1.15	1.55	2.18	2.42	1.62
<b>Return Loss</b>	-23.10	-13.30	-9.13	-7.62	-13.62
<b>Eff (%)</b>	50.8	39.9	20.2	22.1	23.1
<b>PEAK Gain (dBi)</b>	1.35	-0.50	-2.45	-2.51	-2.24

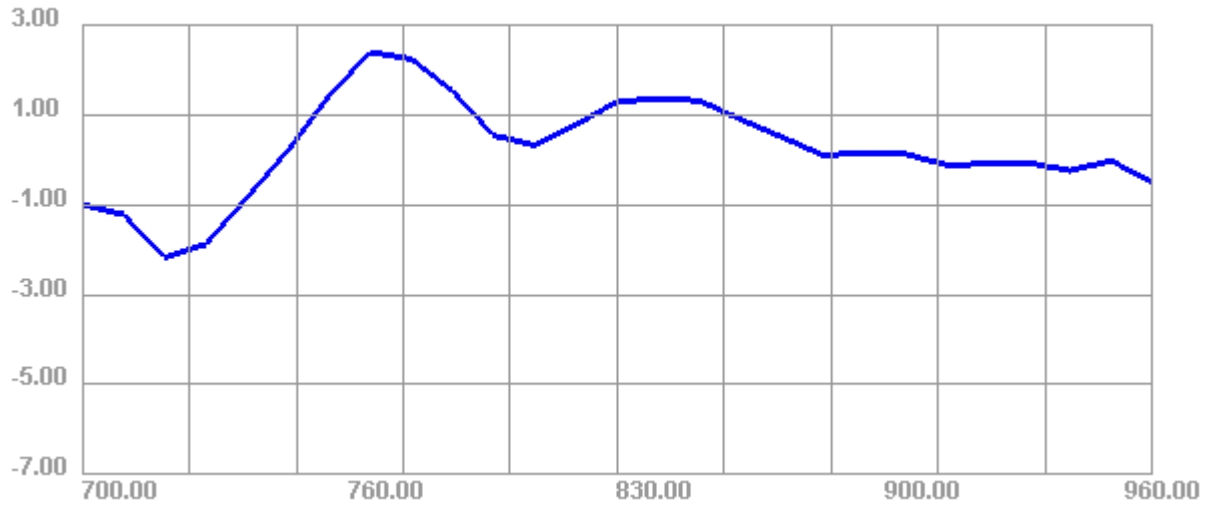


## VSWR

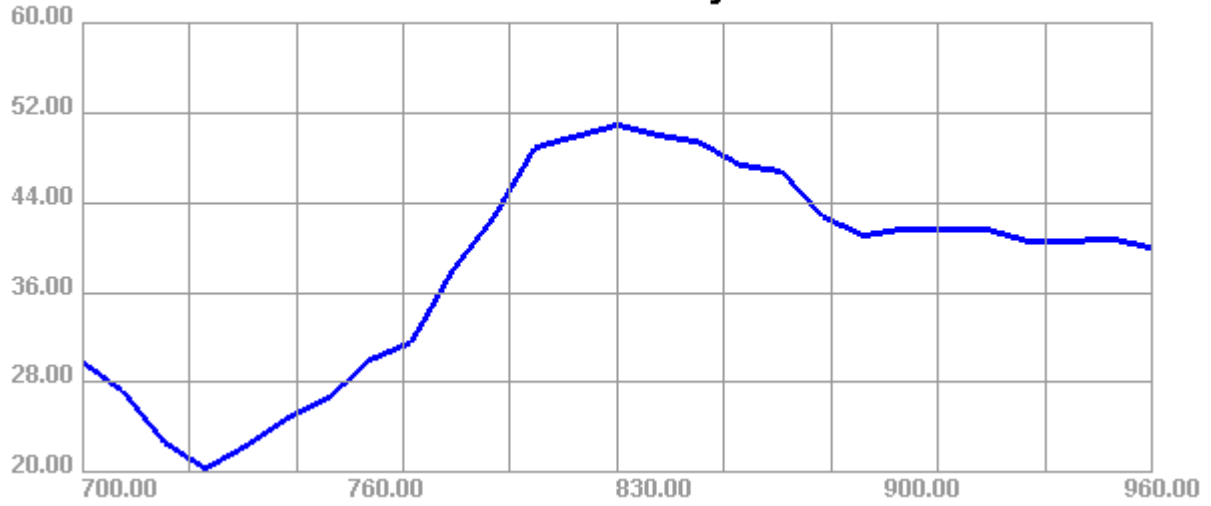


## Return Loss

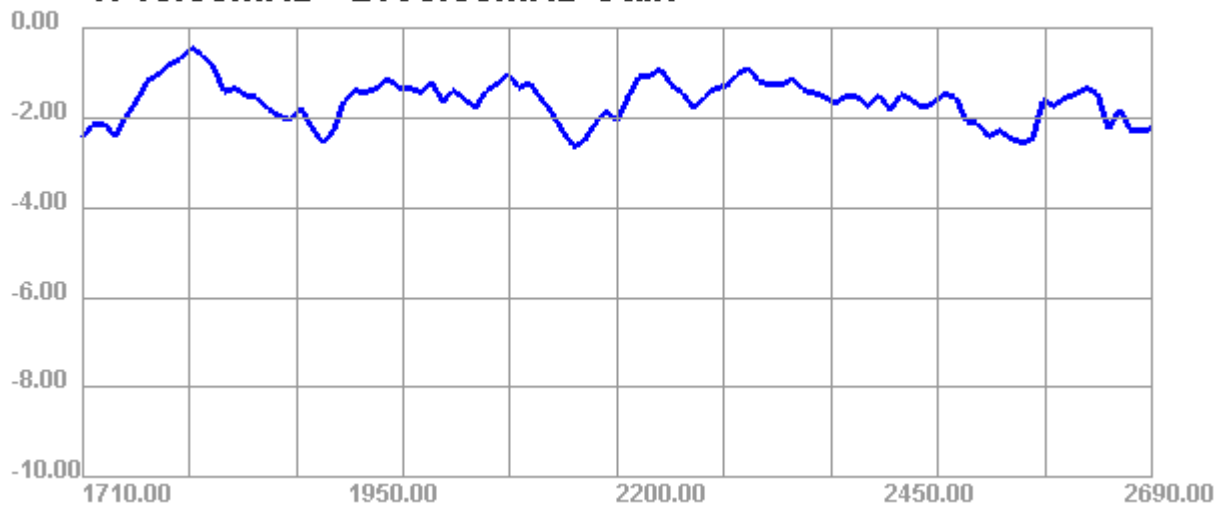
### 700.00MHz - 960.00MHz Gain

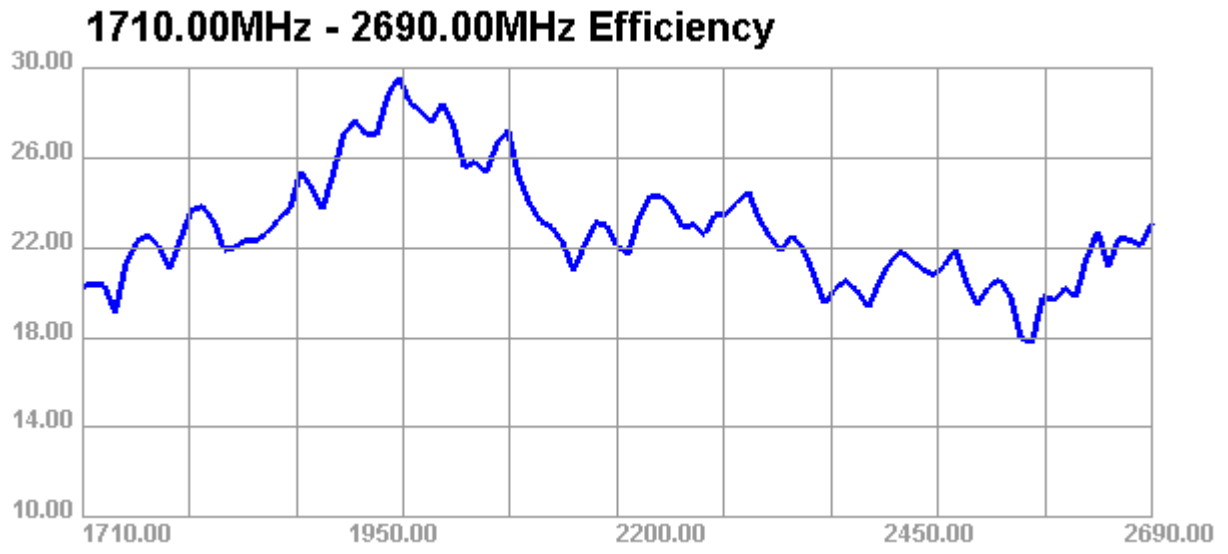


### 700.00MHz - 960.00MHz Efficiency



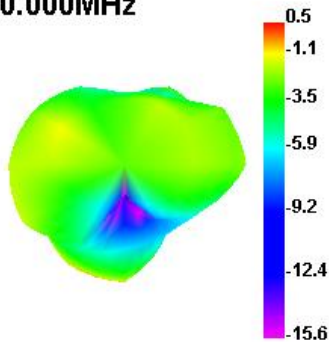
### 1710.00MHz - 2690.00MHz Gain



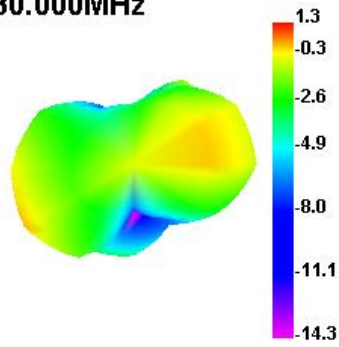


# Directional pattern

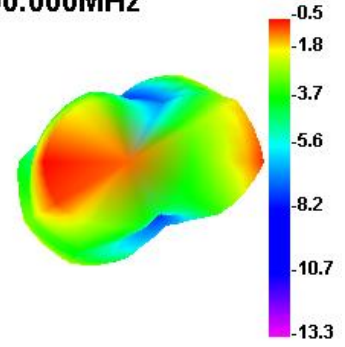
800.000MHz



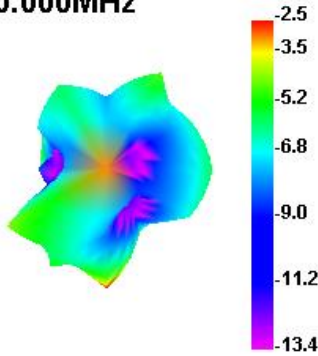
830.000MHz



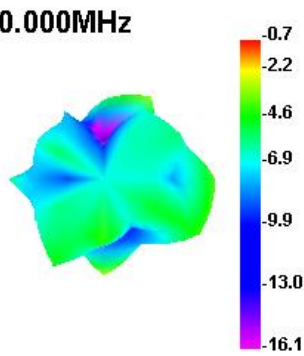
960.000MHz



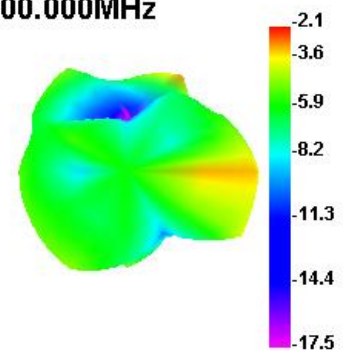
1710.000MHz



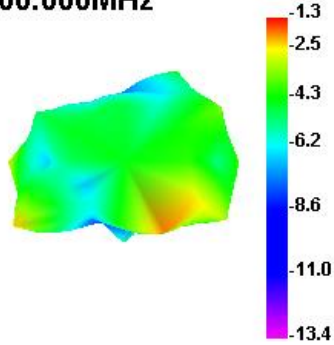
1800.000MHz



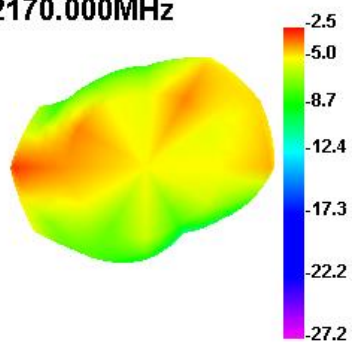
1900.000MHz



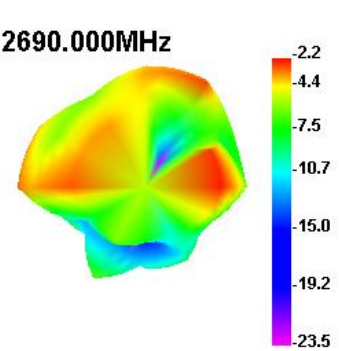
2000.000MHz



2170.000MHz

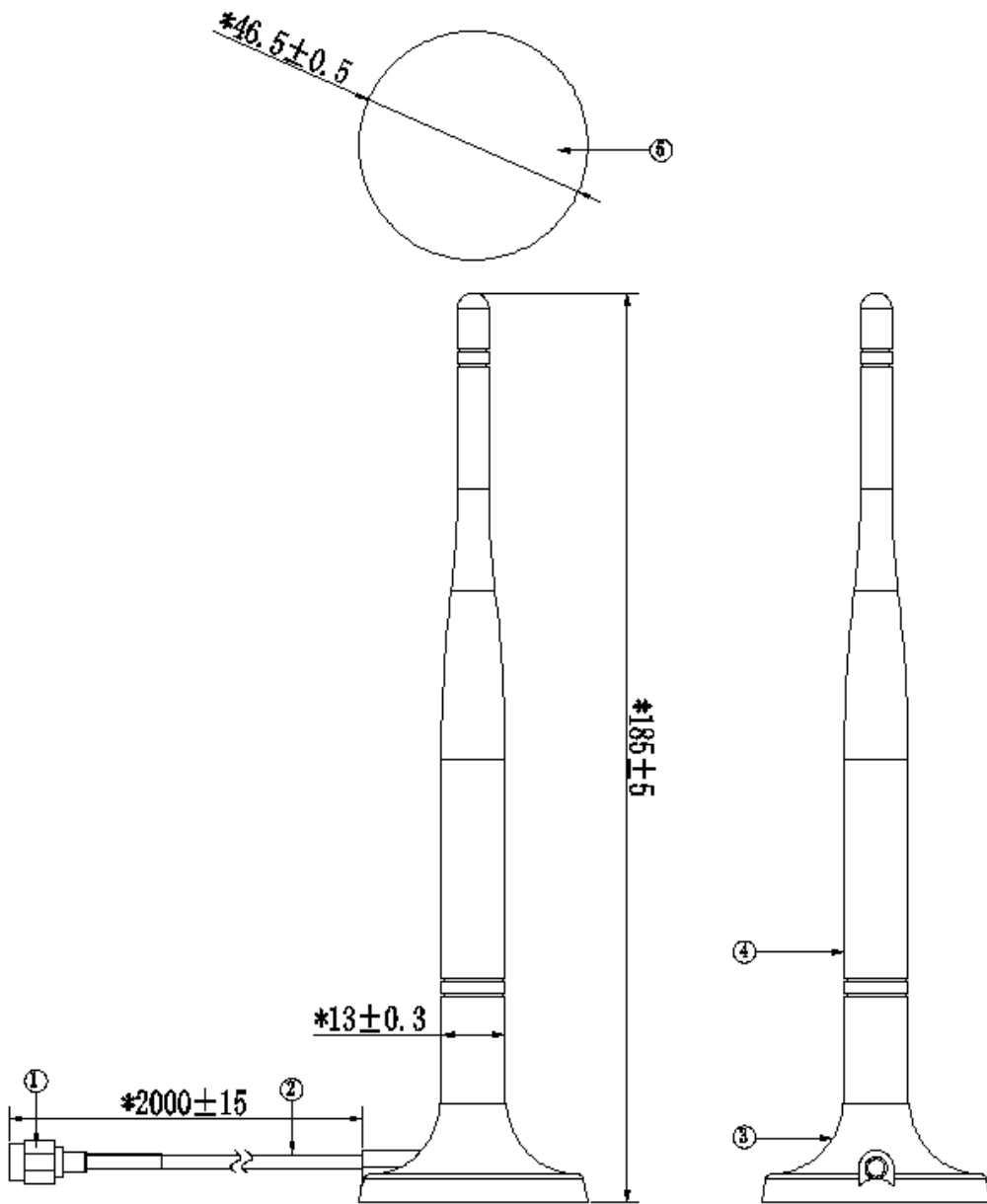


2690.000MHz





# 4. Antenna Drawings



5	Stickers	PC	black	1
4	main body	165mm	black	1
3	base	φ46.5mm	black	1
2	RG174cable	RG174 cable, 2150mm	black	1
1	SMA	SMA-J	gold	1
Series	Component name	Specification	Color	Quantity