SUNNYWAY

SWE012

PN: SW19042EB78



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

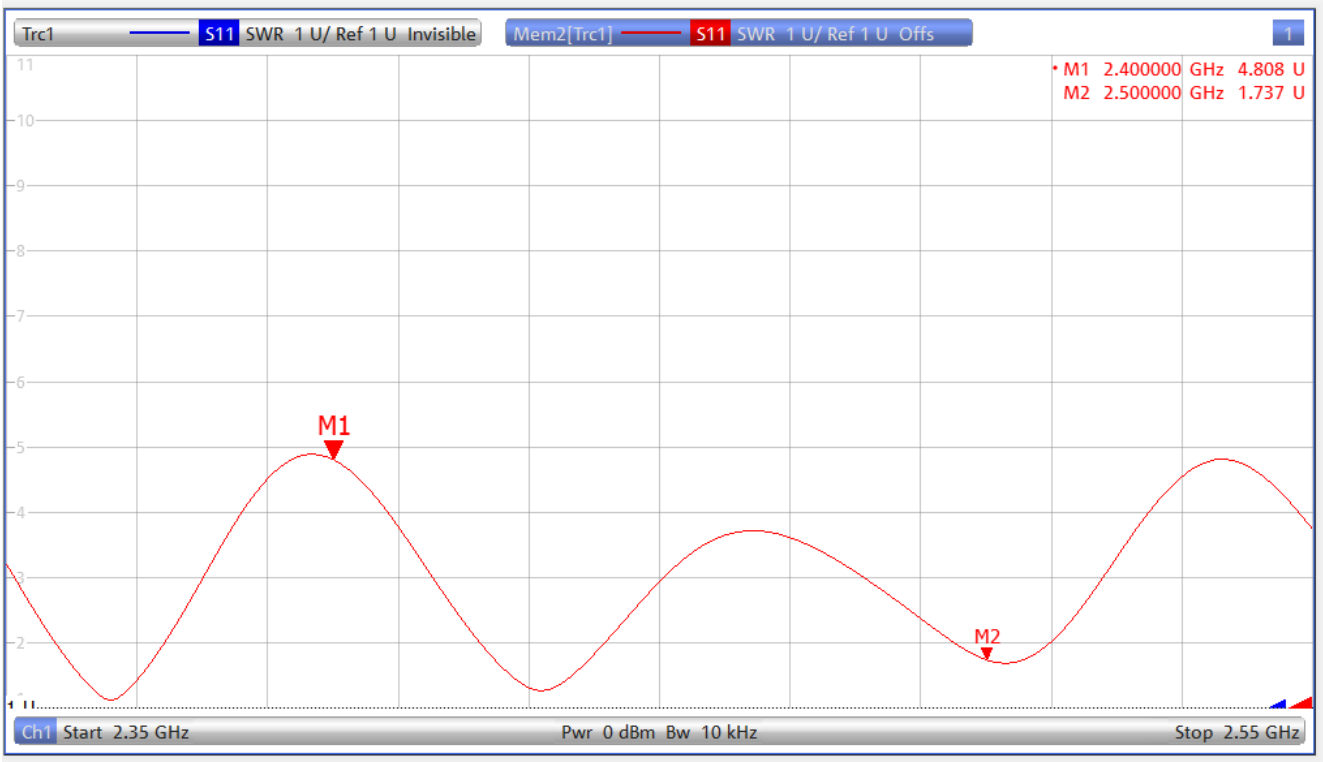
Standards	WiFi & BT
Frequency range (MHz)	2400~2500MHz
Peak Gain (dBi)	1~2dBi
Average Gain (dB)	-5.8~-4.7dB
VSWR	< 5.0
Return Loss	< -3.6
Efficiency (%)	26~33%
Polarization mode	Linear
Radiation pattern	Omni-Directional
Output impedance (Ω)	50
Max. Input Power(W)	25

2. Mechanical and Environmental Specification

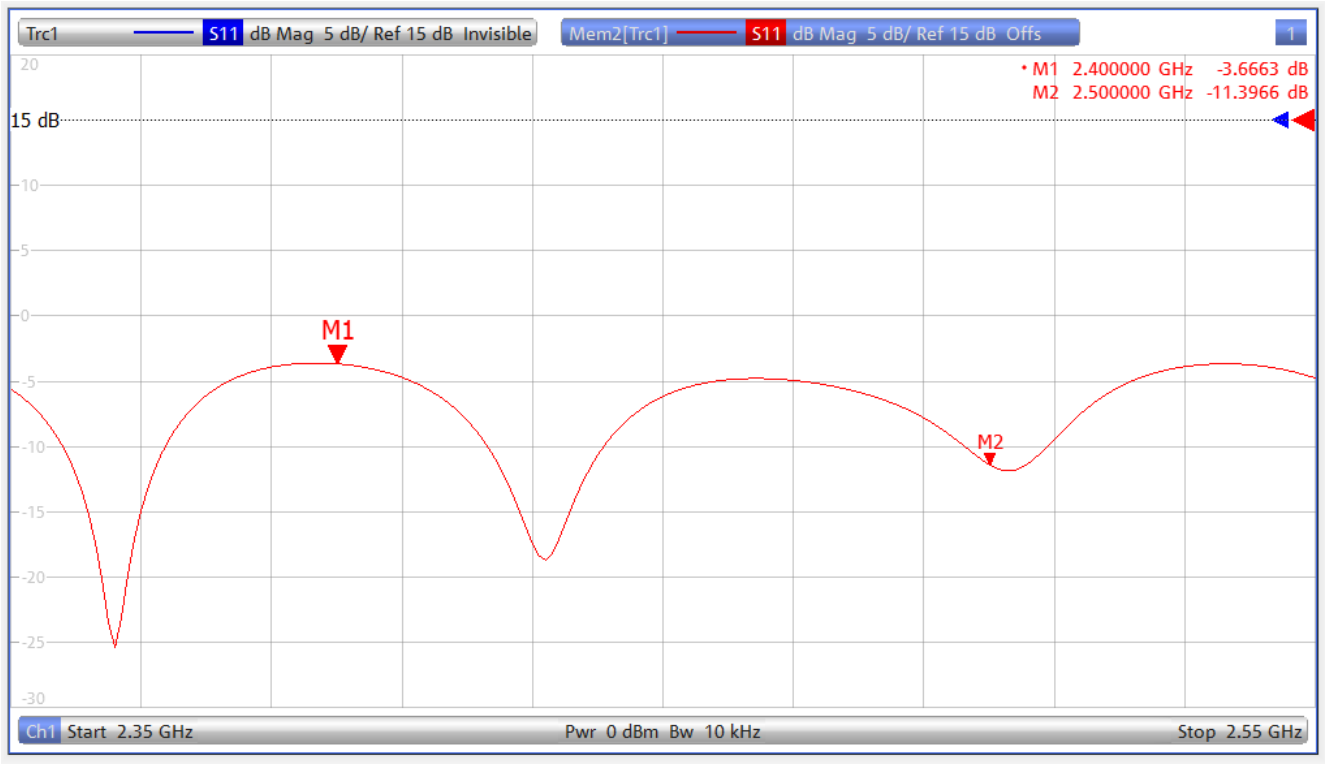
Mounting Type	Connector Mount
Connector Type	SMA (1M)
Antenna size(mm)	223Xφ30
Material	ABS+PC
Operating Temperature (˚C)	- 40 ˚C ~ + 85 ˚C
Storage Temperature(˚C)	- 40 ˚C ~ + 85 ˚C

3. Antenna parameters

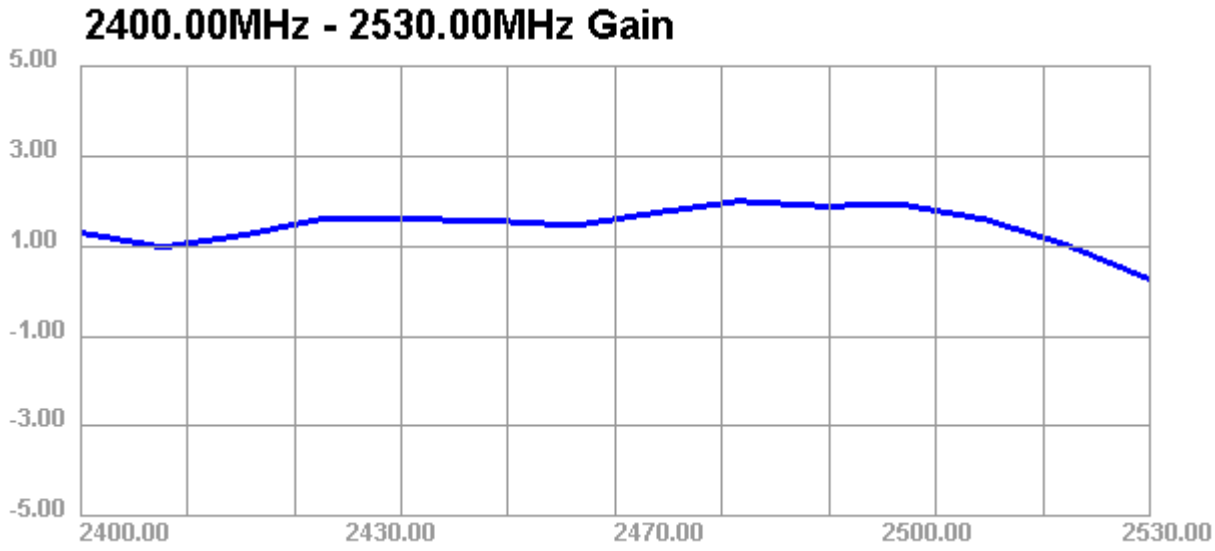
FRE（MHz）	2400	2500
VSWR	4.80	1.73
Return Loss	-3.66	-11.39
Eff (%)	26.2	33.4
PEAK Gain (dBi)	1.30	1.91

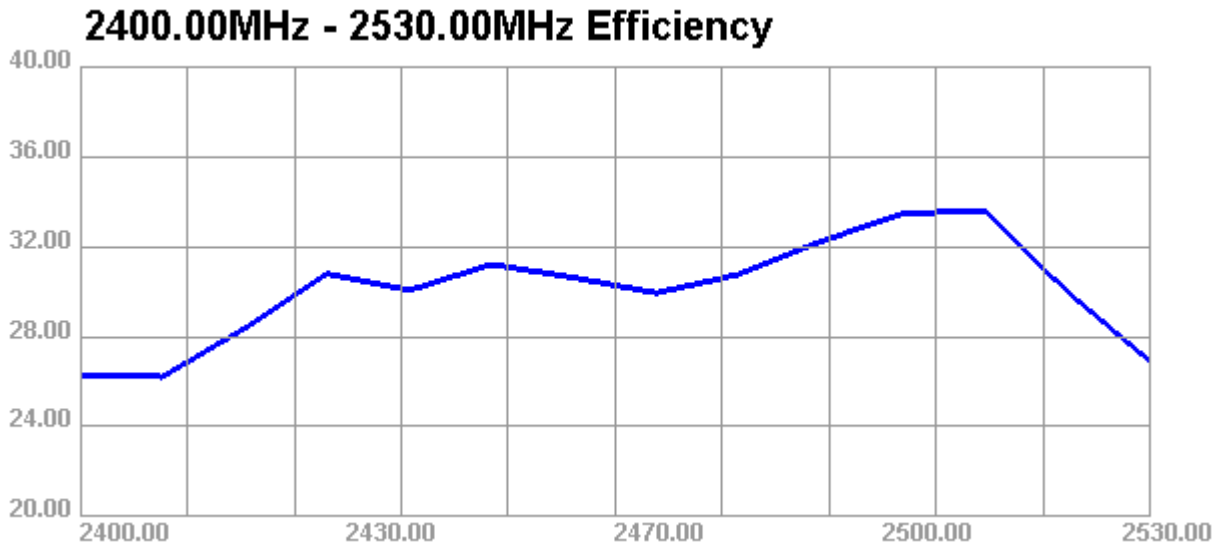


VSWR

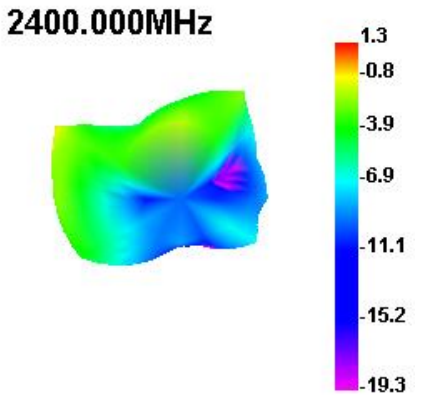

Trc1 S11 dB Mag 5 dB/ Ref 15 dB Invisible
Mem2[Trc1] S11 dB Mag 5 dB/ Ref 15 dB Offs
1
• M1 2.400000 GHz -3.6663 dB
M2 2.500000 GHz -11.3966 dB
20
15 dB
10
5
0
-5
-10
-15
-20
-25
-30
M1
M2
Ch1 Start 2.35 GHz
Pwr 0 dBm Bw 10 kHz
Stop 2.55 GHz

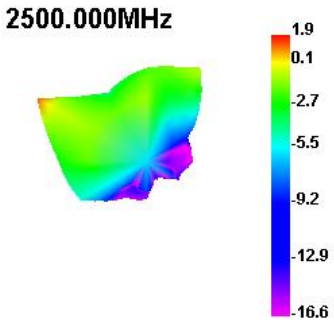
Return Loss

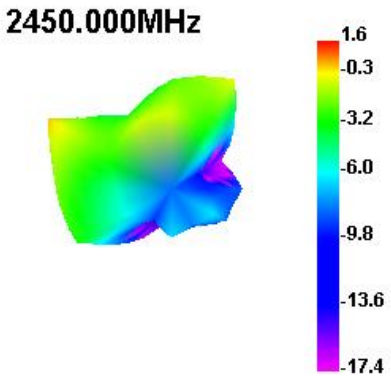

2400.00MHz - 2530.00MHz Gain
5.00
3.00
1.00
-1.00
-3.00
-5.00
2400.00
2430.00
2470.00
2500.00
2530.00



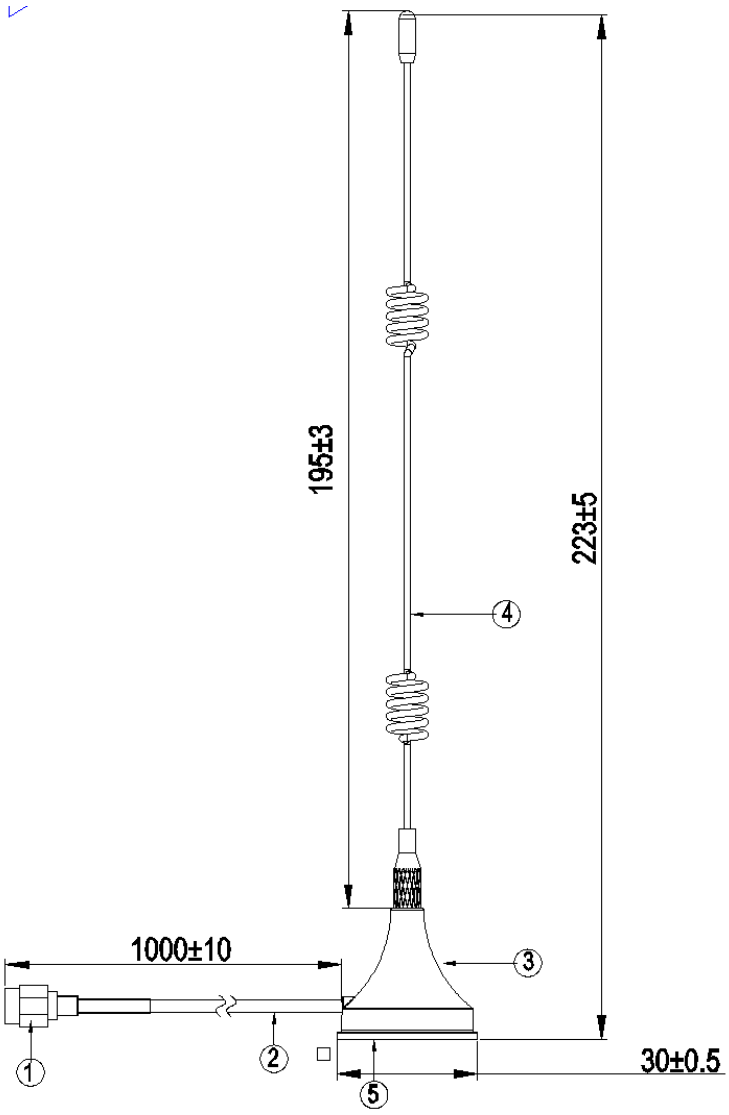
Directional pattern







4. Antenna Drawings



5	Stickers	PC	black	1
4	A spring bar	Steel wire electrophoresis	black	1
3	base	φ30.0mm	black	1
2	RG174cable	RG174 cable，2150mm	black	1
1	SMA	SMA-J	gold	1
Series	Component name	Specification	Color	Quantity