SUNNYWAY

SWE010

PN: SW19040EB56



Sunnyway Technology

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1. Electrical Specifications

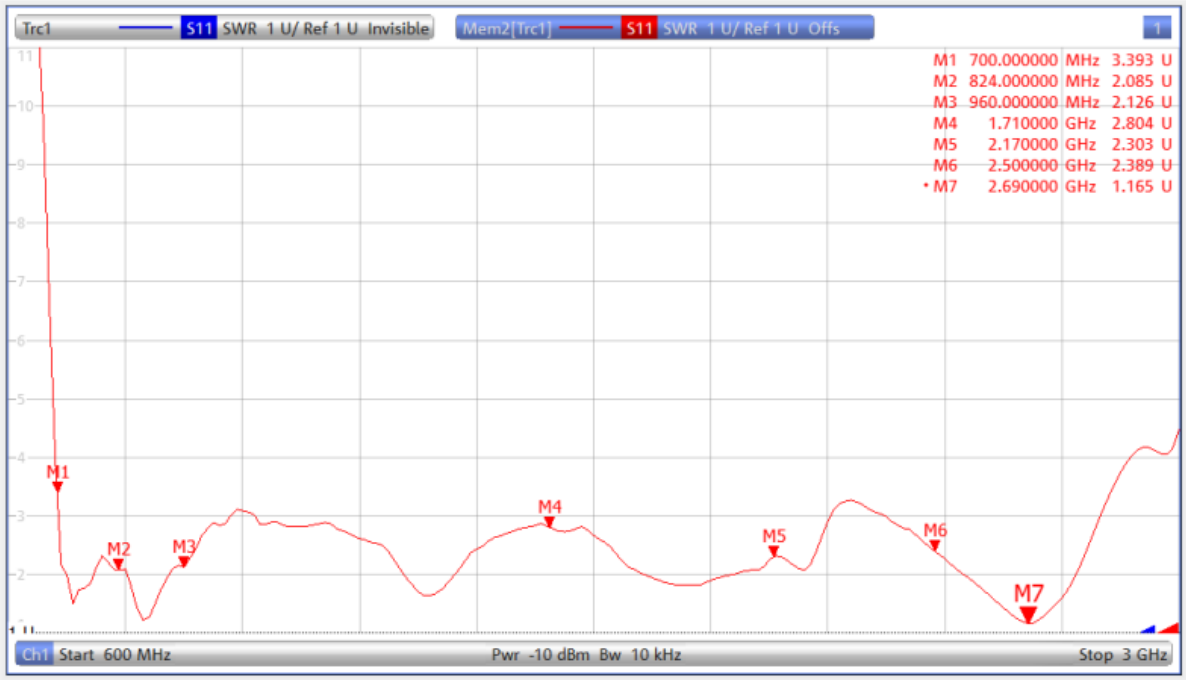
Standards	4G&3G&2G	
Frequency range (MHz)	698~960MHz	1710~2690MHz
Peak Gain (dBi)	-0.5~2.0dBi	-1.0~2.0dBi
Average Gain (dB)	-4.0~-0.7dB	-4.2~-1.5dB
VSWR	<3.4	<3.2
Return Loss	<-5.5	<-6.0
Efficiency (%)	40~85%	38~72%
Polarization mode	Linear	Linear
Radiation pattern	Omni-Directional	Omni-Directional
Output impedance (Ω)	50	50
Max. Input Power(W)	25	25

2. Mechanical and Environmental Specification

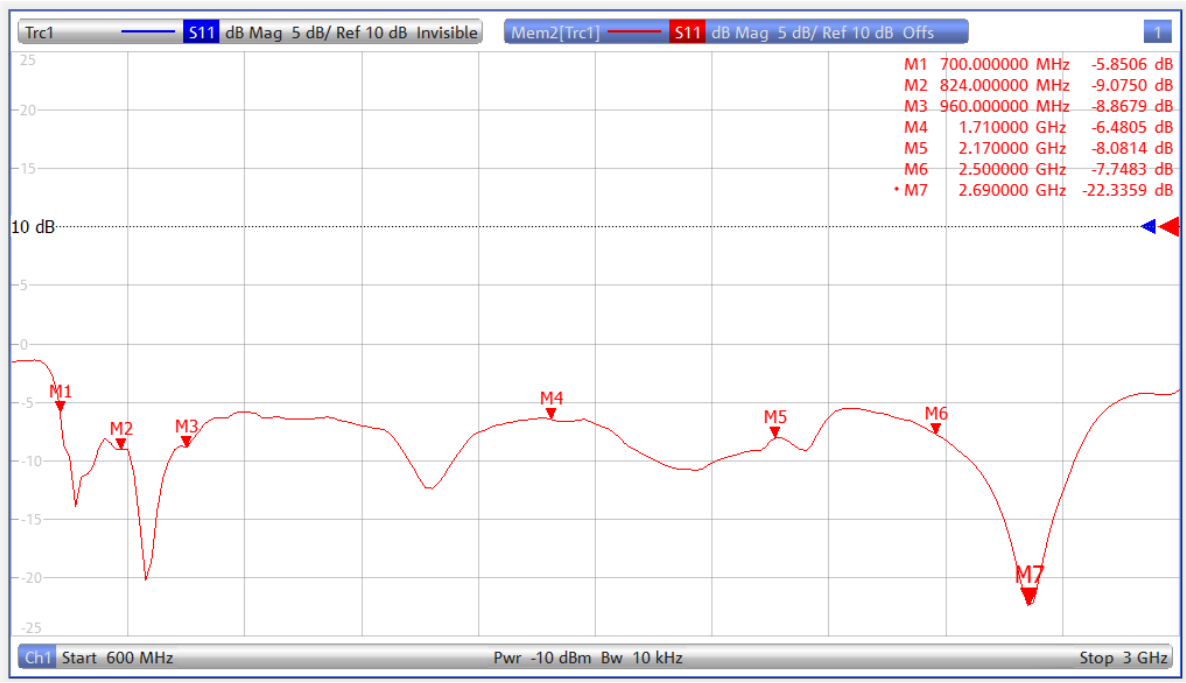
Mounting Type	Connector Mount
Connector Type	SMA
Antenna size(mm)	190mm*16.2mm
Material	ABS
Operating Temperature (˚C)	- 40 ˚C ~ + 85 ˚C
Storage Temperature(˚C)	- 40 ˚C ~ + 85 ˚C

3. Antenna parameters

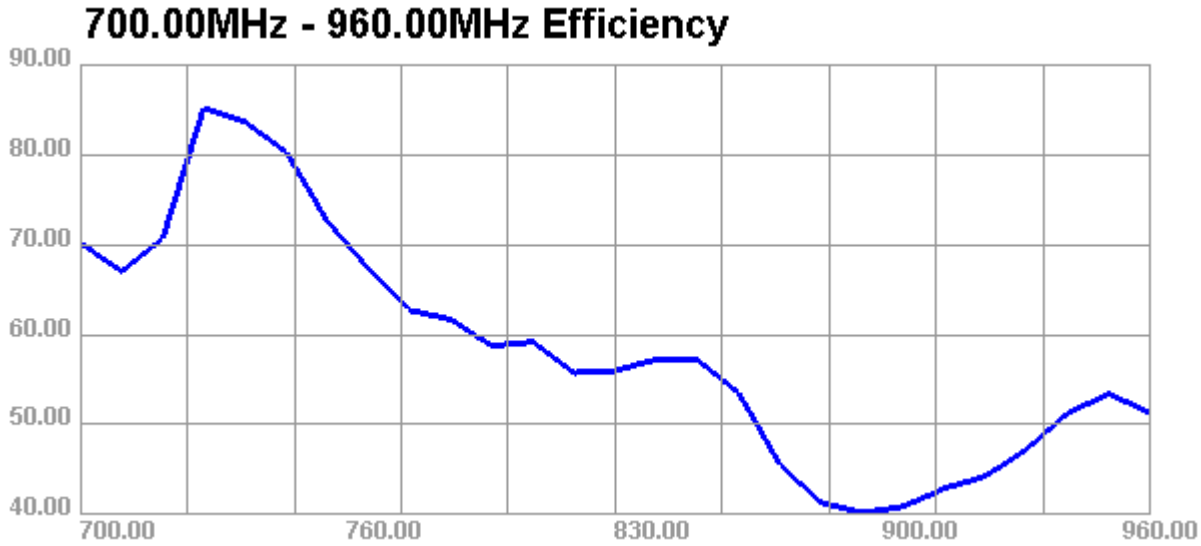
FRE（MHz）	700	824	960	1710	2170	2500	2690
VSWR	3.39	2.08	2.12	2.80	2.30	2.38	1.16
Return Loss	-5.85	-9.07	-8.86	-6.48	-8.08	-7.74	-22.3
Eff (%)	70.2	56.0	51.3	53.1	58.0	40.1	42.4
PEAK Gain (dBi)	0.96	1.68	0.19	1.65	0.92	-0.49	0.49

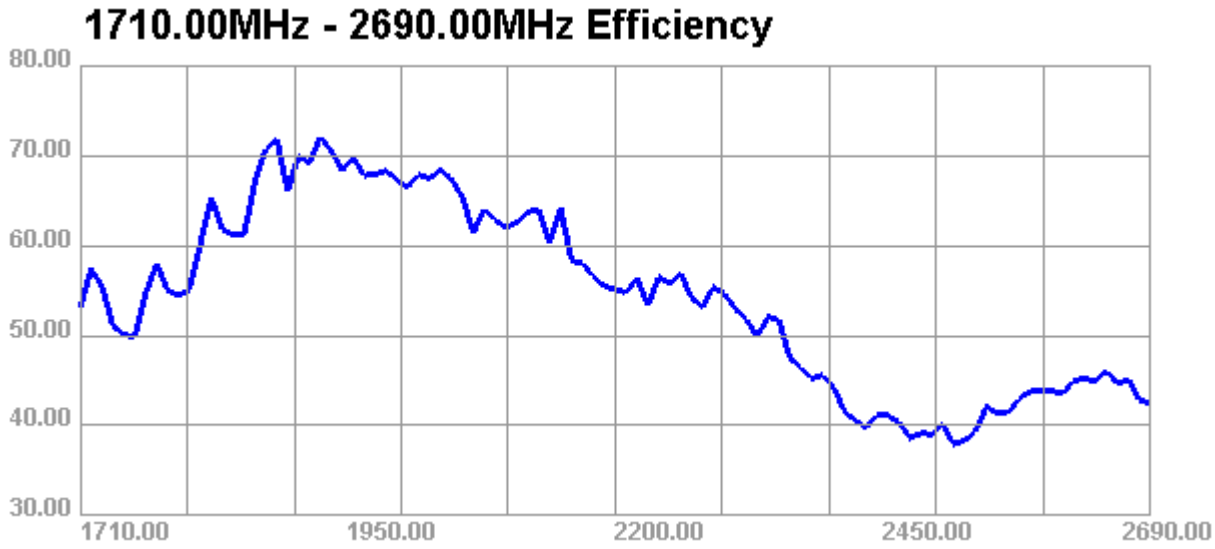


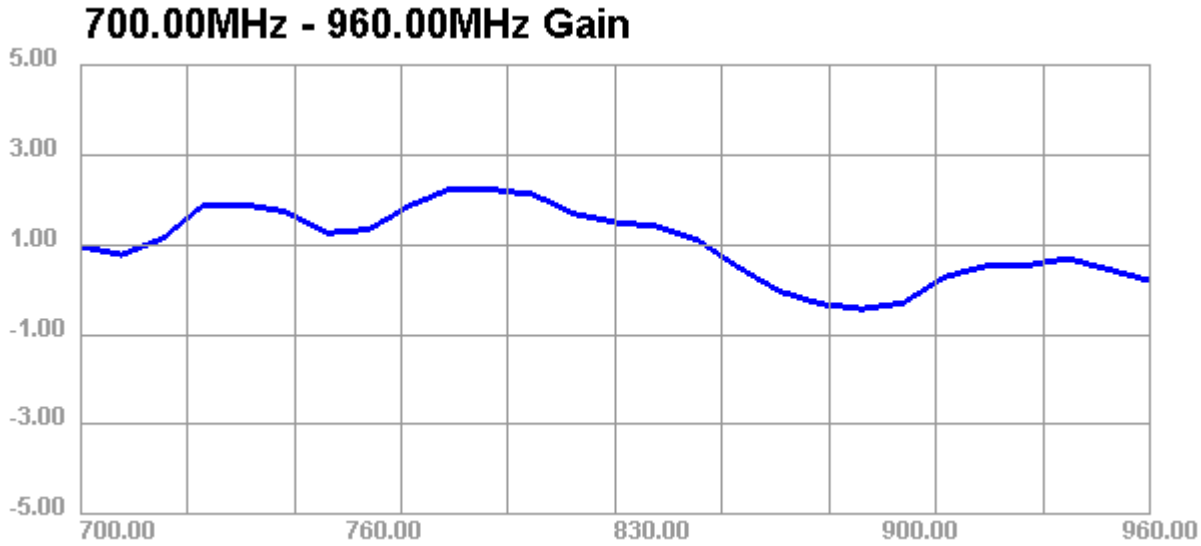
VSWR

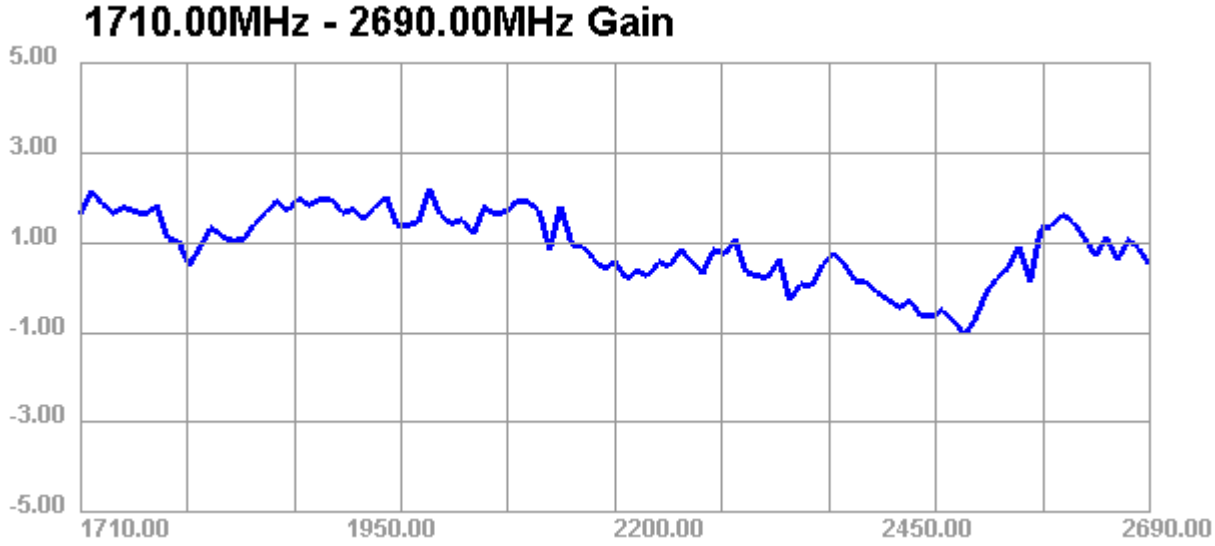


Return Loss

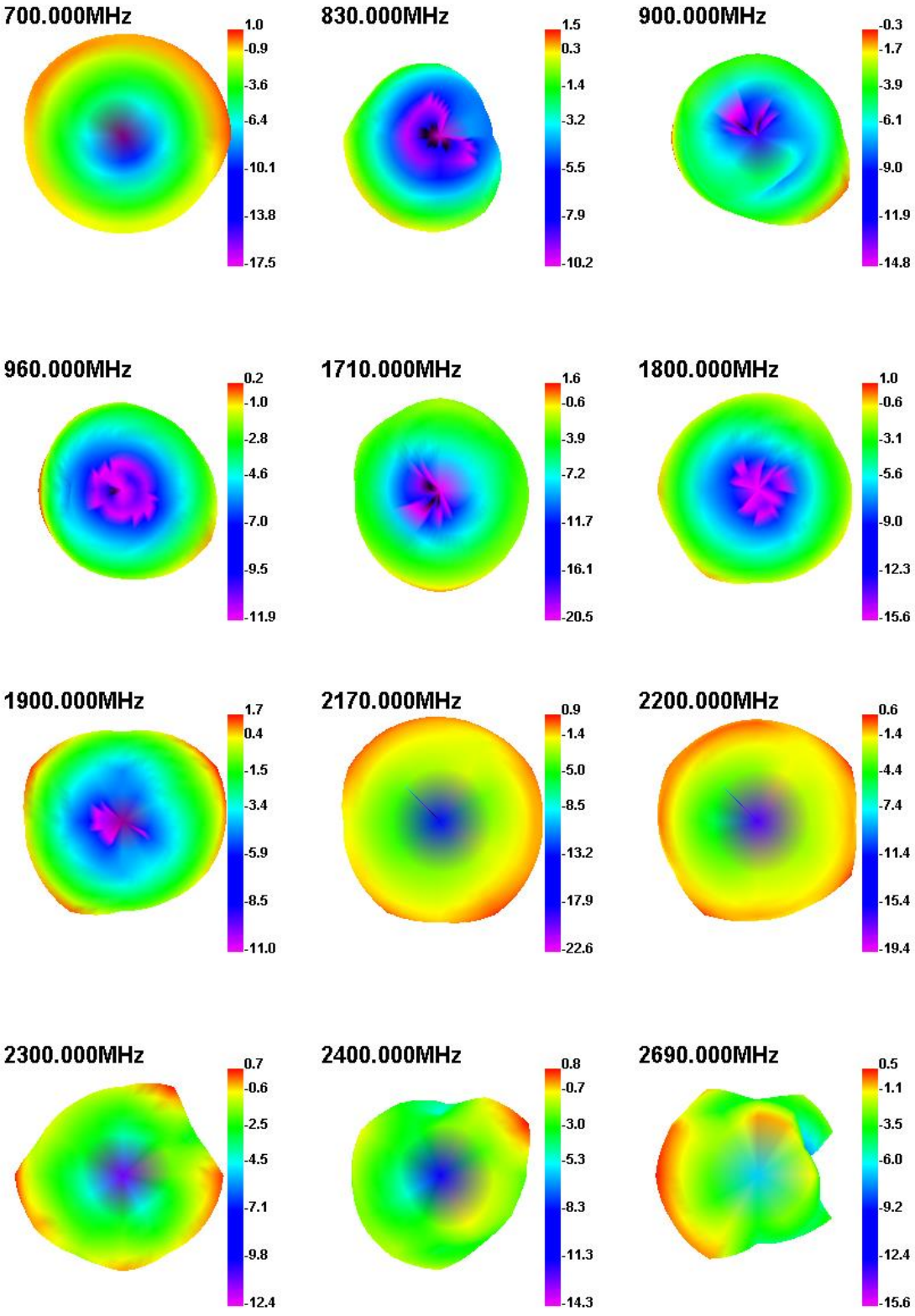

700.00MHz - 960.00MHz Efficiency
90.00
80.00
70.00
60.00
50.00
40.00
700.00
760.00
830.00
900.00
960.00


1710.00MHz - 2690.00MHz Efficiency
80.00
70.00
60.00
50.00
40.00
30.00
1710.00
1950.00
2200.00
2450.00
2690.00

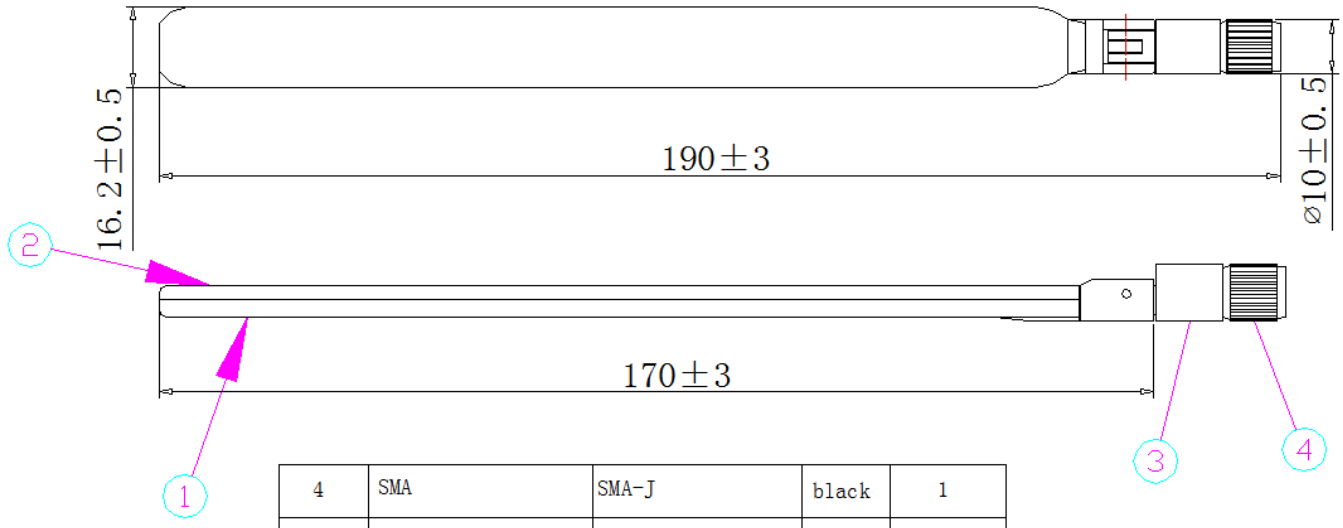

700.00MHz - 960.00MHz Gain
5.00
3.00
1.00
-1.00
-3.00
-5.00
700.00
760.00
830.00
900.00
960.00


1710.00MHz - 2690.00MHz Gain
5.00
3.00
1.00
-1.00
-3.00
-5.00
1710.00
1950.00
2200.00
2450.00
2690.00

Directional pattern



4. Antenna Drawings



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