SUNNYWAY

SWE001

PN: SW19031EB78



1. Electrical Specifications

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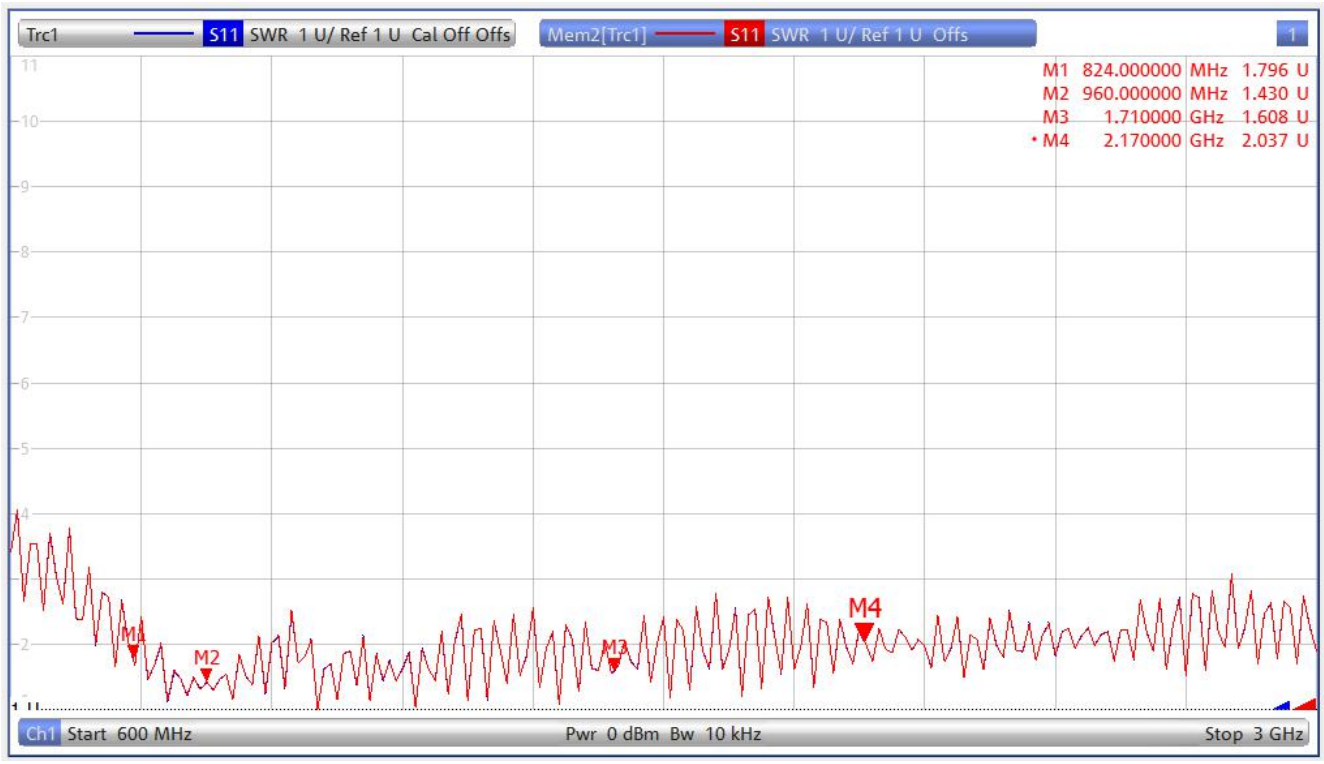
Standards	3G&2G	
Frequency range (MHz)	824~960MHz	1710~2170MHz
Peak Gain (dBi)	-4.0~0dBi	-6.0~-1.0dBi
Average Gain (dB)	-7.7~-6.0dB	-10.9~-8.5dB
VSWR	< 2.0	< 2.1
Return Loss	< -11.0	< -9.0
Efficiency (%)	16.8~25%	8~14%
Polarization mode	Linear	Linear
Radiation pattern	Omni-Directional	Omni-Directional
Output impedance (Ω)	50	50
Max. Input Power(W)	25	25

2. Mechanical and Environmental

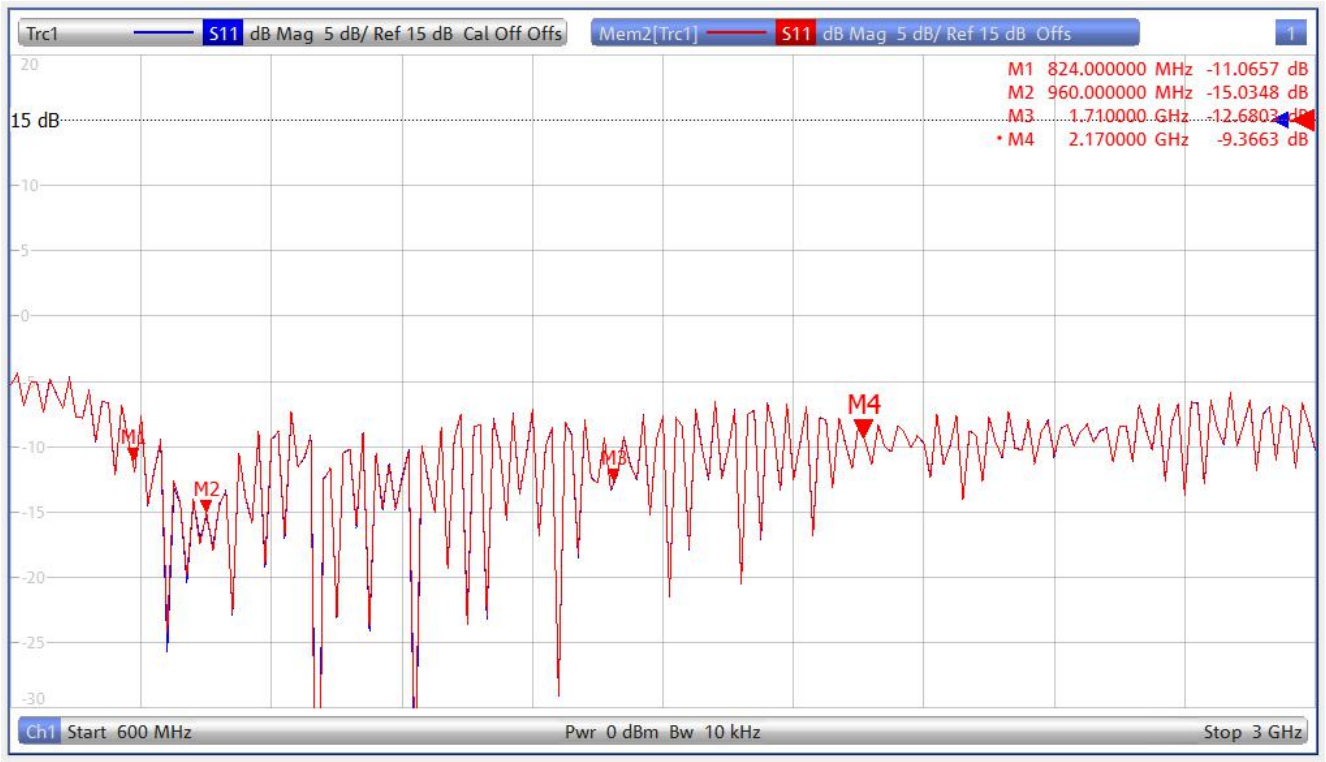
Mounting Type	Connector Mount
Connector Type	SMA (1M)
Antenna size(mm)	308 x φ30
Material	ABS+PC
Operating Temperature (˚C)	- 40 ˚C ~ + 85 ˚C
Storage Temperature(˚C)	- 40 ˚C ~ + 85 ˚C

3. Antenna parameters

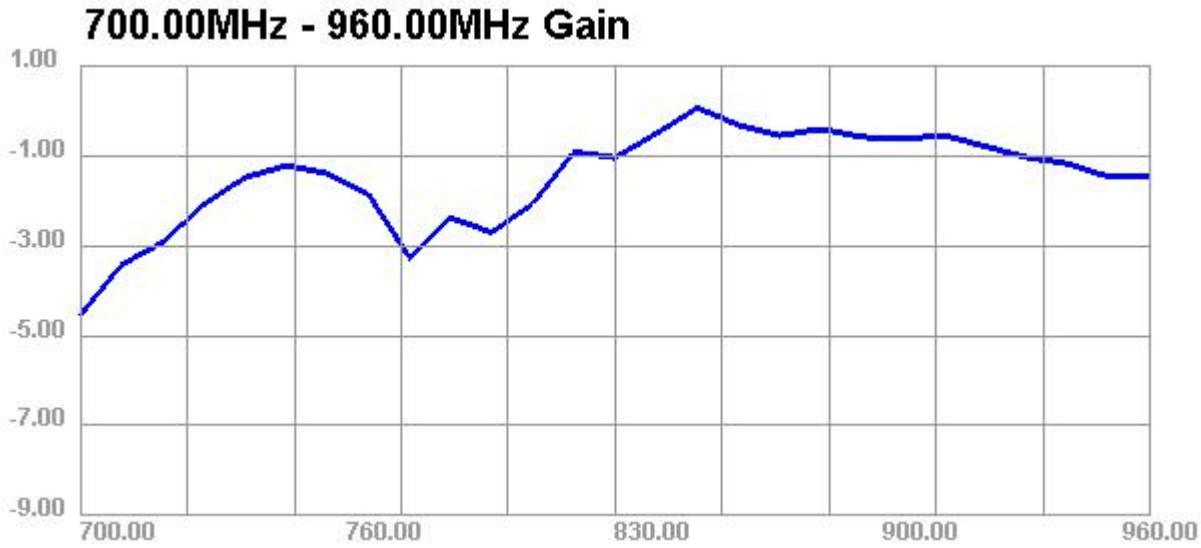
FRE（MHz）	824	960	1710	2170
VSWR	1.79	1.43	1.60	2.03
Return Loss	-11.0	-15.0	-12.6	-9.36
Eff(%)	20.7	16.8	13.19	12.66
PEAK Gain (dBi)	-0.92	-1.47	-2.33	-2.67

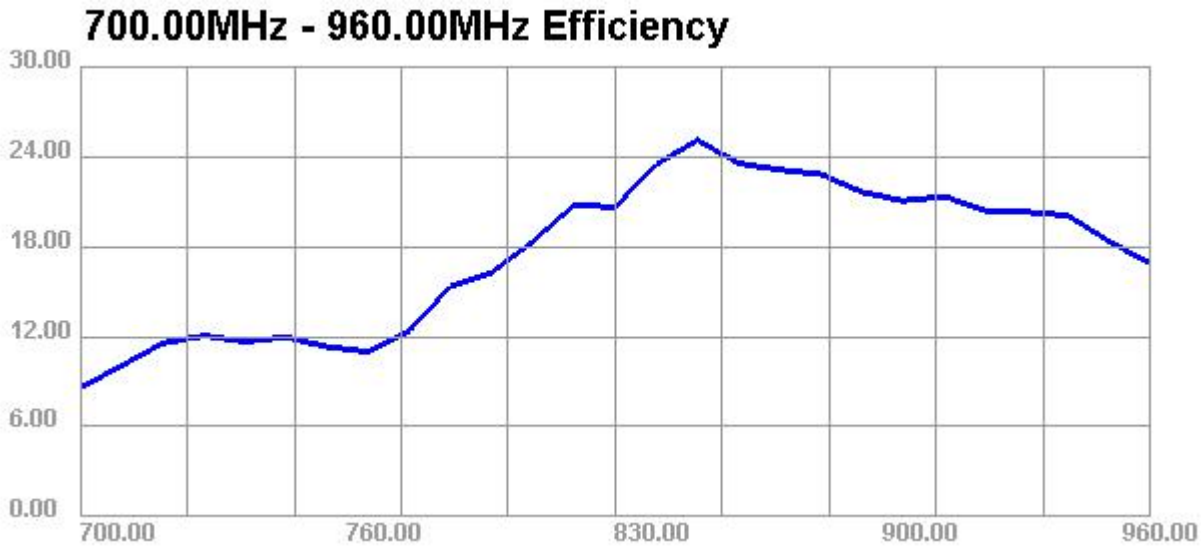


VSWR

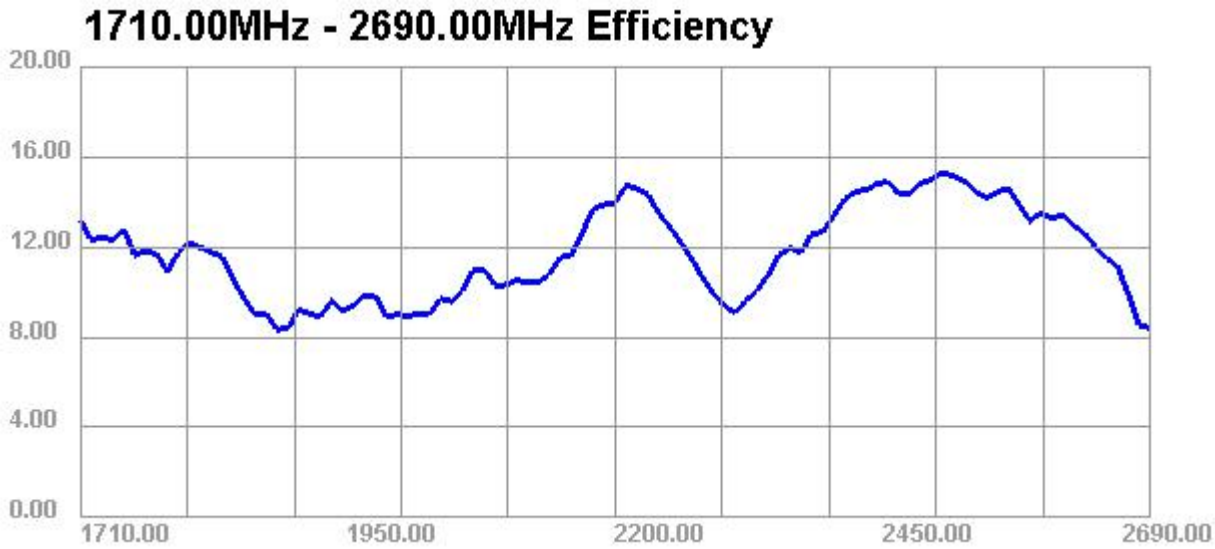

Trc1 S11 dB Mag 5 dB/ Ref 15 dB Cal Off Offs
Mem2[Trc1] S11 dB Mag 5 dB/ Ref 15 dB Offs
M1 824.000000 MHz -11.0657 dB
M2 960.000000 MHz -15.0348 dB
M3 1.710000 GHz -12.6803 dB
M4 2.170000 GHz -9.3663 dB
15 dB
M1
M2
M3
M4
Ch1 Start 600 MHz
Pwr 0 dBm Bw 10 kHz
Stop 3 GHz

Return Loss

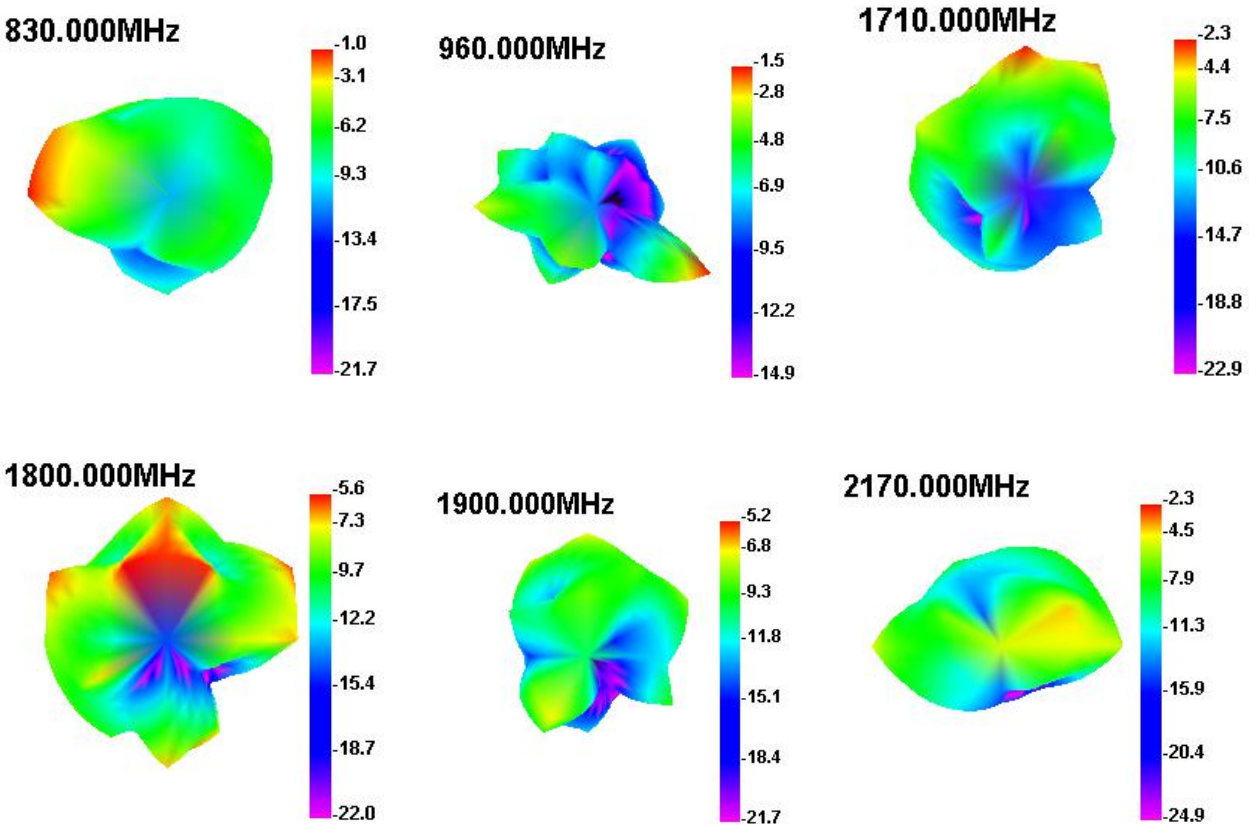

700.00MHz - 960.00MHz Gain
1.00
-1.00
-3.00
-5.00
-7.00
-9.00
700.00
760.00
830.00
900.00
960.00


700.00MHz - 960.00MHz Efficiency
30.00
24.00
18.00
12.00
6.00
0.00
700.00
760.00
830.00
900.00
960.00

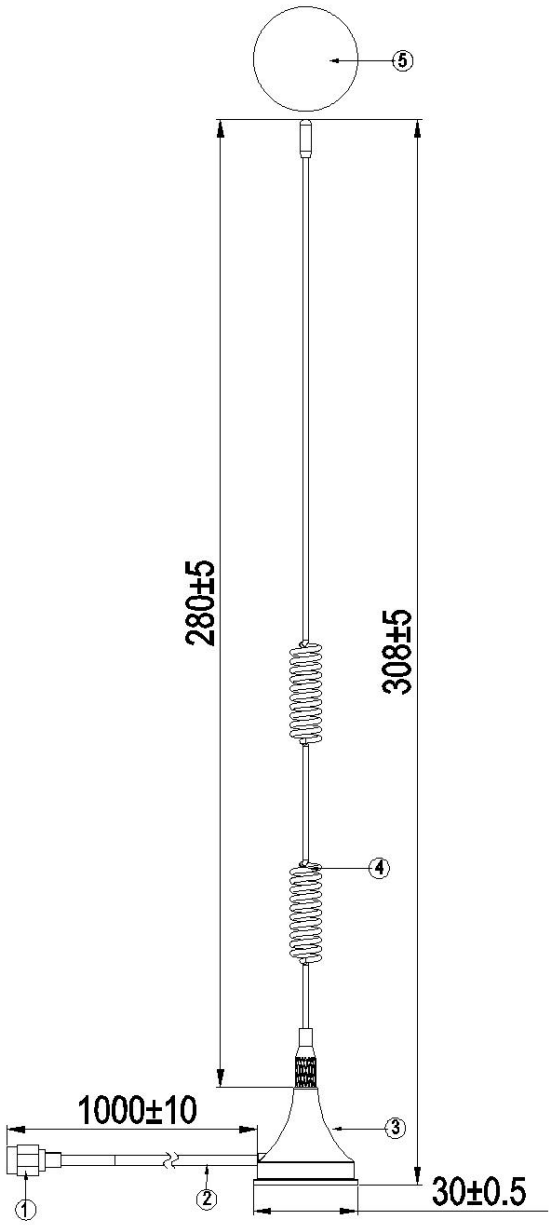

1710.00MHz - 2690.00MHz Gain
0.00
-2.00
-4.00
-6.00
-8.00
-10.00
1710.00
1950.00
2200.00
2450.00
2690.00


1710.00MHz - 2690.00MHz Efficiency
20.00
16.00
12.00
8.00
4.00
0.00
1710.00
1950.00
2200.00
2450.00
2690.00

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