SUNNYWAY

SWE026

PN: SW19070EB56



Sunnyway Technology

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1. Electrical Specifications

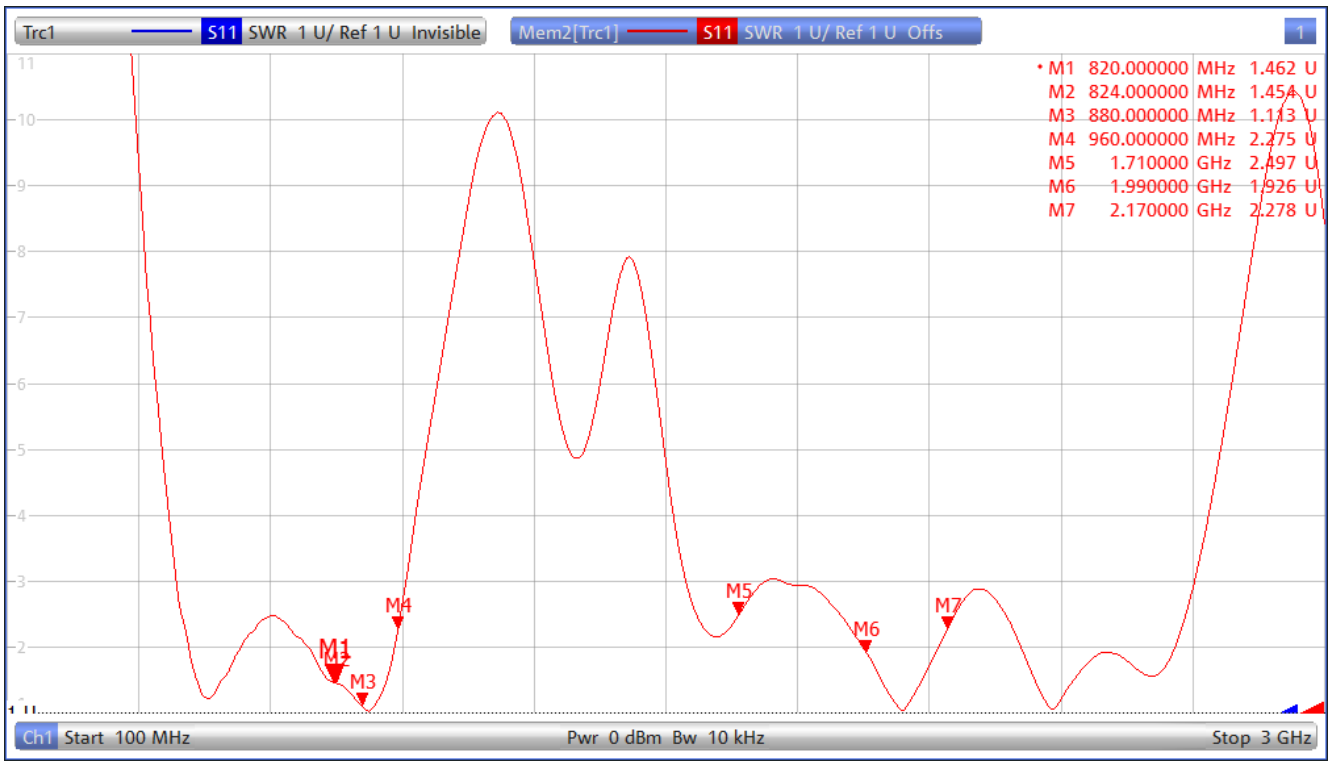
Standards	3G/2G	
Frequency range (MHz)	824~960 MHz	1710~2170 MHz
Peak Gain (dBi)	-1.1~0.7 dBi	-1~2.4 dBi
Average Gain (dB)	-4.8~2.9 dB	-5.2~-2.9 dB
VSWR	< 2.5	< 3.0
Return Loss	< -8.0	< -7.0
Efficiency (%)	32~51%	30~51%
Polarization mode	Linear	Linear
Radiation pattern	Omni-Directional	Omni-Directional
Output impedance (Ω)	50	50
Max. Input Power(W)	25	25

2. Mechanical and Environmental Specification

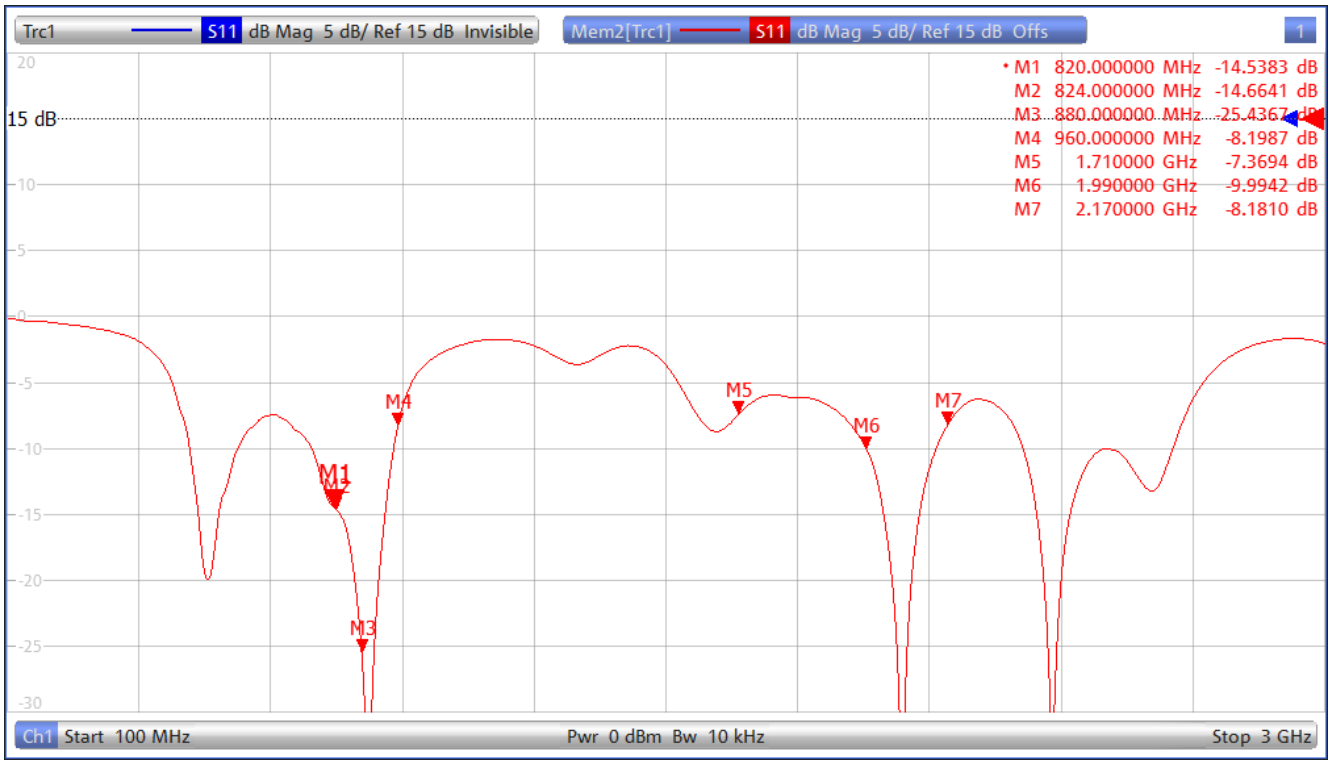
Mounting Type	Connector Mount
Connector Type	SMA
Antenna size(mm)	109mm*φ10mm
Material	ABS
Operating Temperature (˚C)	- 40 ˚C ~ + 85 ˚C
Storage Temperature(˚C)	- 40 ˚C ~ + 85 ˚C

3. Antenna parameters

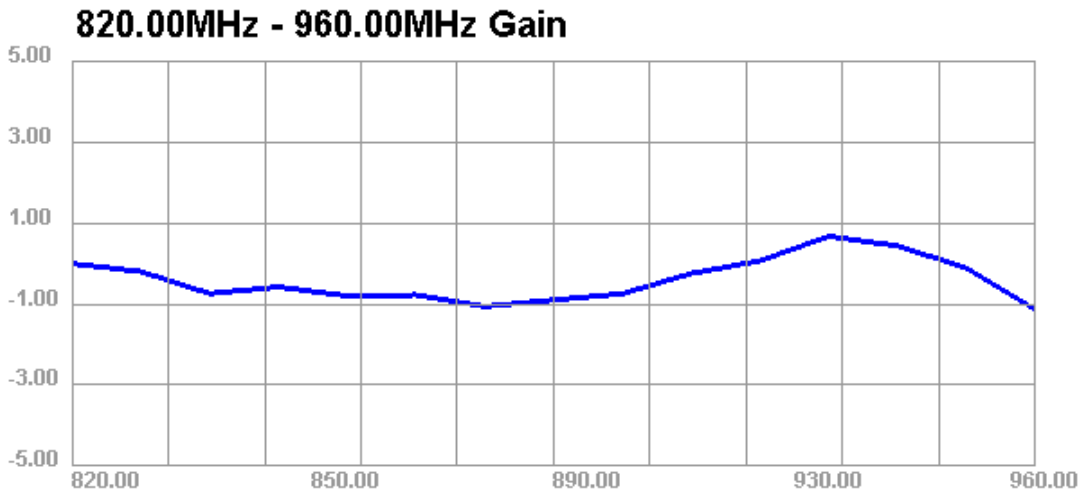
FRE (MHz)	820	880	960	1710	1990	2170
VSWR	1.4	1.1	2.2	2.4	1.9	2.2
Return Loss	-14.5	-25.4	-8.1	-7.3	-9.9	-8.1
Eff (%)	51.3	37.1	32.5	30.2	49.3	34.2
Average Gain(dB)	-2.9	-4.3	-4.8	-5.2	-3.1	-4.6

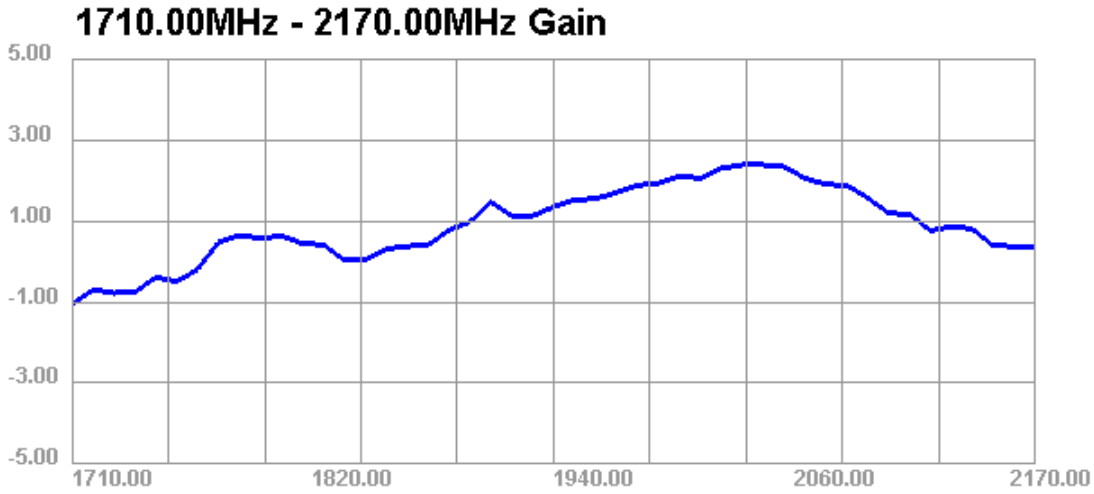


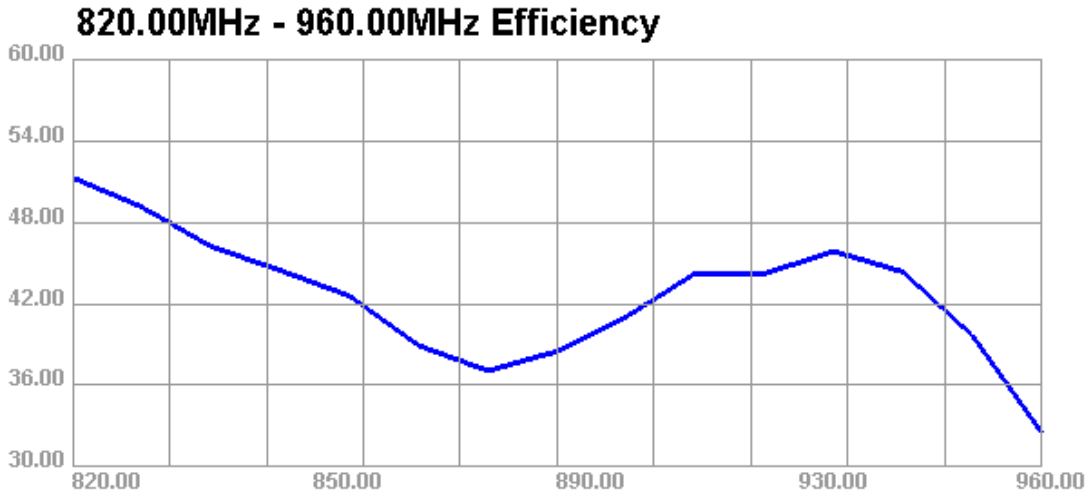
VSWR

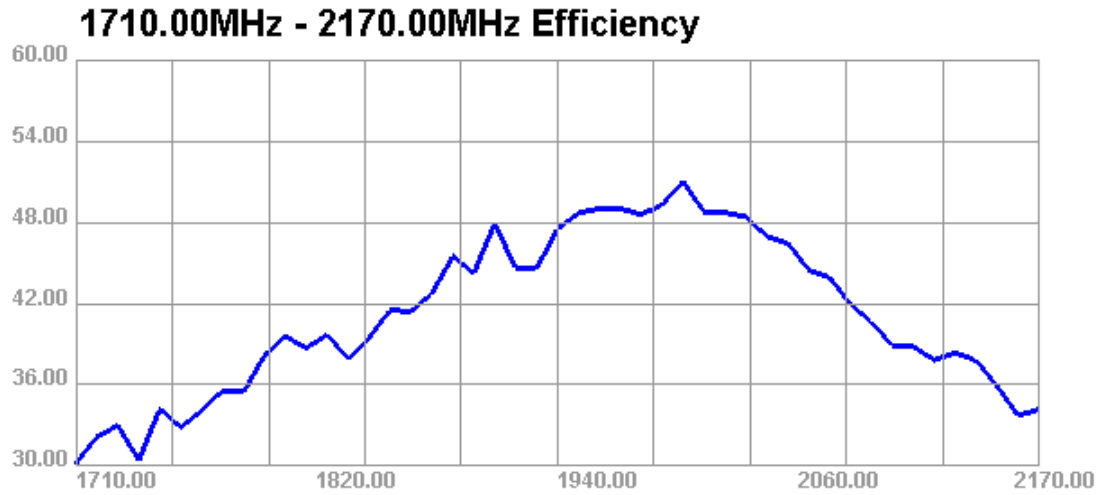

Trc1 S11 dB Mag 5 dB/ Ref 15 dB Invisible
Mem2[Trc1] S11 dB Mag 5 dB/ Ref 15 dB Offs
1
M1 820.000000 MHz -14.5383 dB
M2 824.000000 MHz -14.6641 dB
M3 880.000000 MHz -25.4367 dB
M4 960.000000 MHz -8.1987 dB
M5 1.710000 GHz -7.3694 dB
M6 1.990000 GHz -9.9942 dB
M7 2.170000 GHz -8.1810 dB
15 dB
M1
M2
M3
M4
M5
M6
M7
Ch1 Start 100 MHz
Pwr 0 dBm Bw 10 kHz
Stop 3 GHz

Return Loss

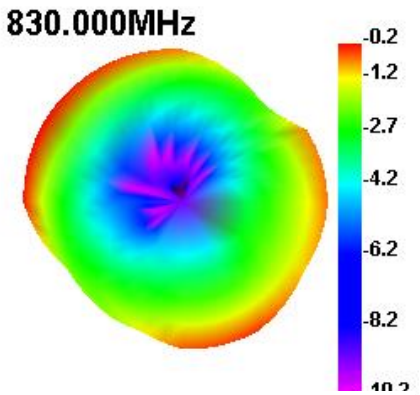

820.00MHz - 960.00MHz Gain
5.00
3.00
1.00
-1.00
-3.00
-5.00
820.00
850.00
890.00
930.00
960.00

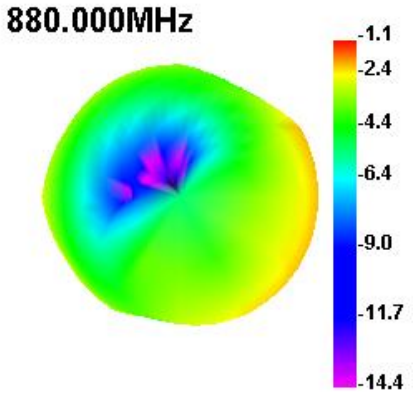

1710.00MHz - 2170.00MHz Gain
5.00
3.00
1.00
-1.00
-3.00
-5.00
1710.00
1820.00
1940.00
2060.00
2170.00

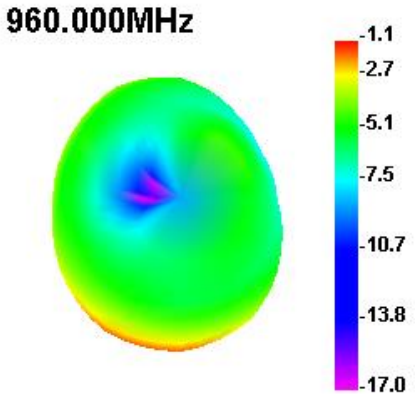

820.00MHz - 960.00MHz Efficiency
60.00
54.00
48.00
42.00
36.00
30.00
820.00
850.00
890.00
930.00
960.00

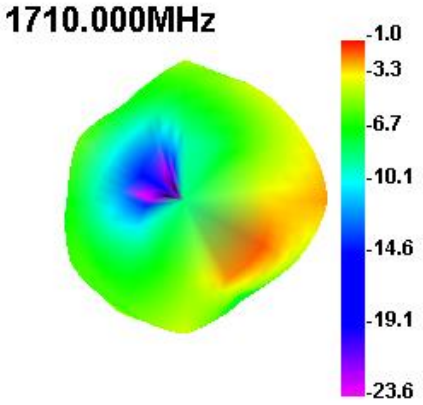

1710.00MHz - 2170.00MHz Efficiency
60.00
54.00
48.00
42.00
36.00
30.00
1710.00
1820.00
1940.00
2060.00
2170.00

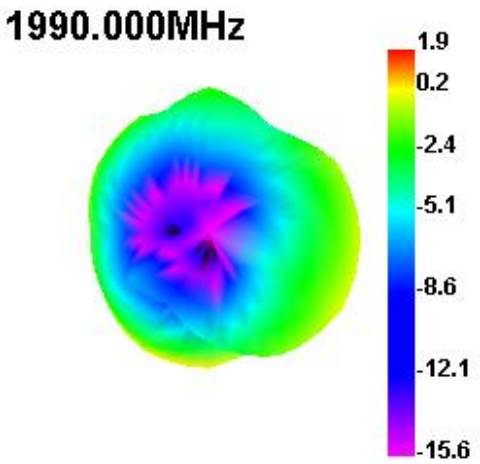
Directional pattern

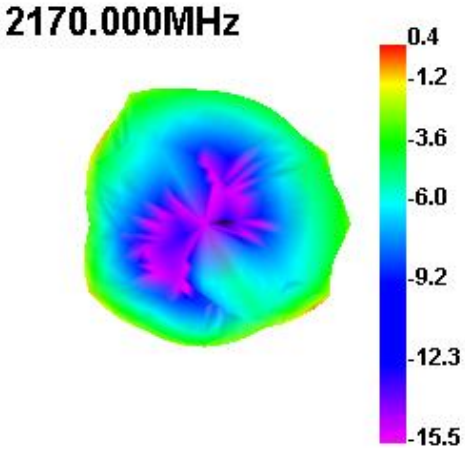




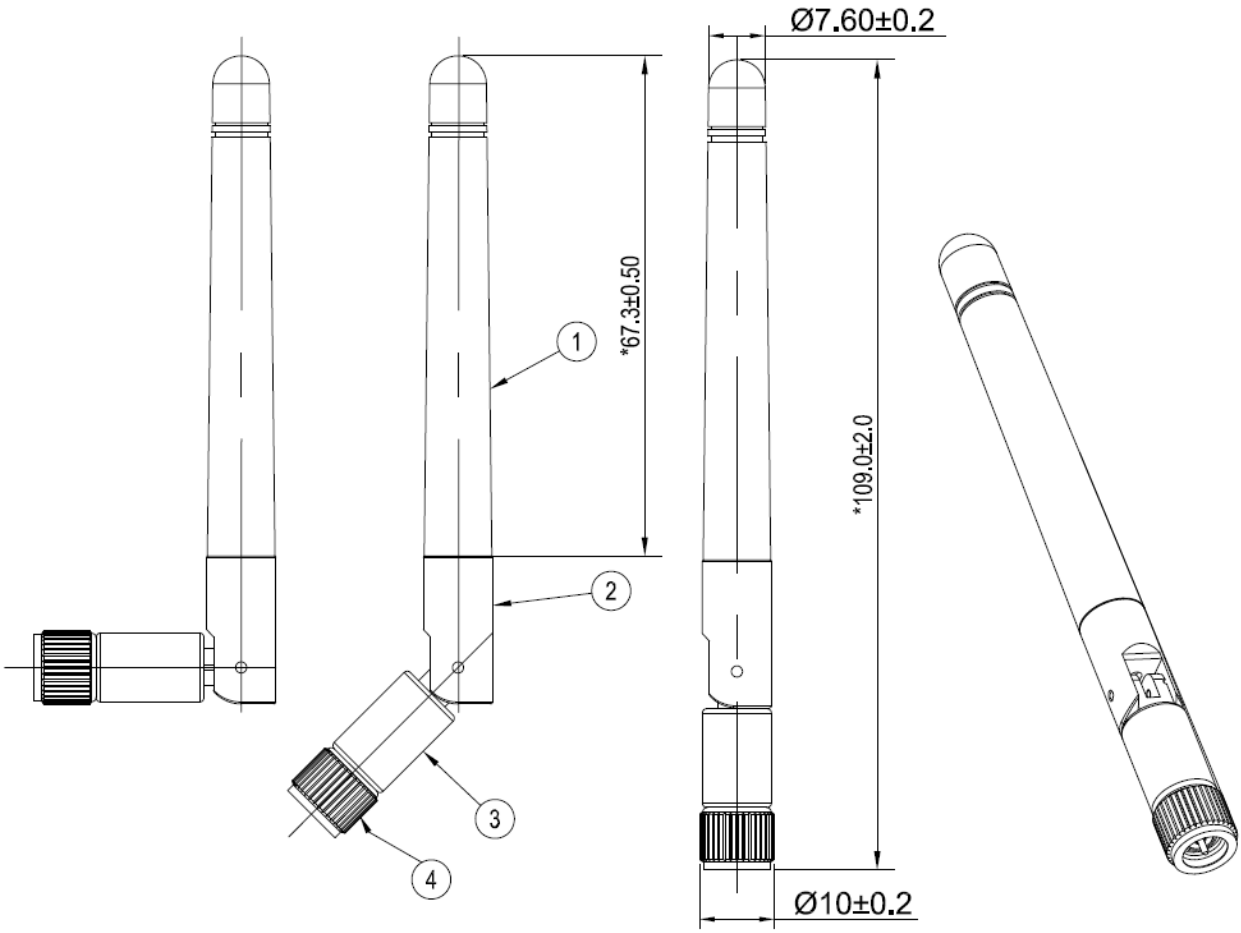








4. Antenna Drawings



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