SUNNYWAY

SWP007

PN: SW19054IB97



Sunnyway Technology

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1. Electrical Specifications

Standard	3G/2G
Frequency range (MHz)	800~2100MHz
Peak Gain (dBi)	-1.5~2.0dBi
Average Gain (dB)	-5.7~-2.2dB
VSWR	<5.0
Return Loss	<-3.5
Efficiency (%)	27~60%
Polarization mode	Linear
Radiation pattern	Omni-Directional
Output impedance (Ω)	50
Max. Input Power(W)	25

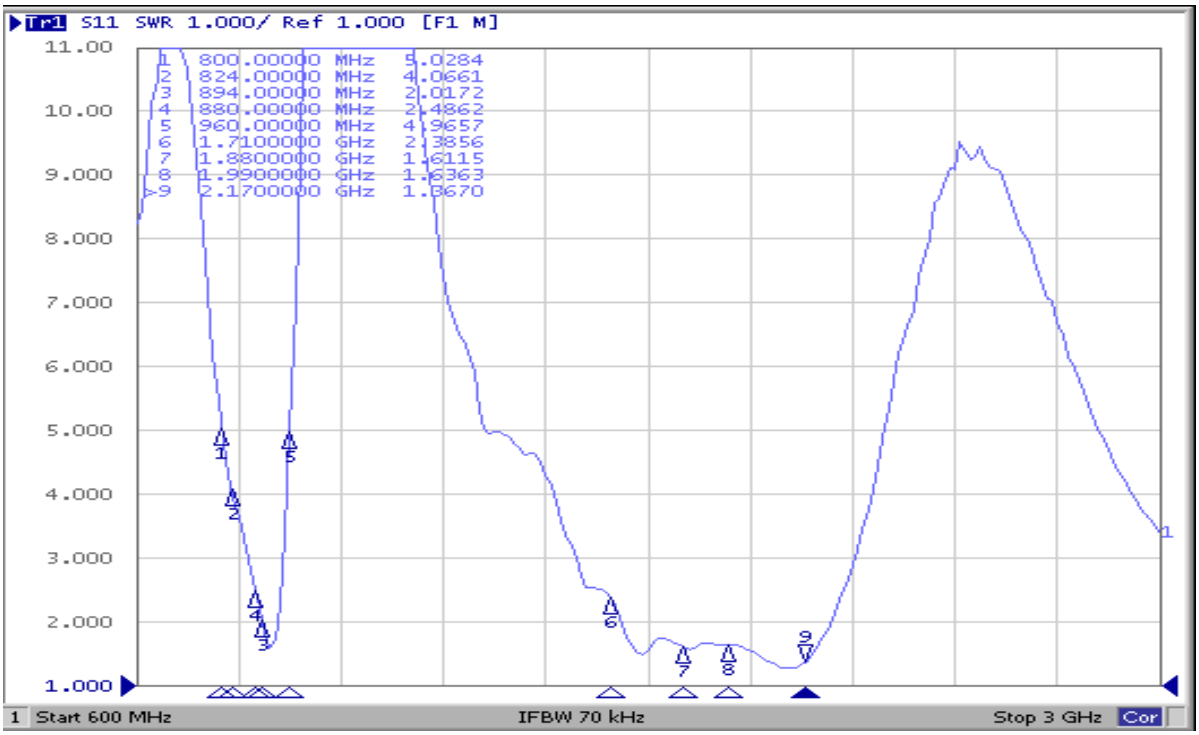
2. Mechanical and Environmental Specification

Mounting Type	Adhesive
Adhesive Type	3M9471
Connector Type	I-PEX
Antenna size(mm)	35.8*6.85*0.8mm
Material	PCB
Cable length(mm)	70mm

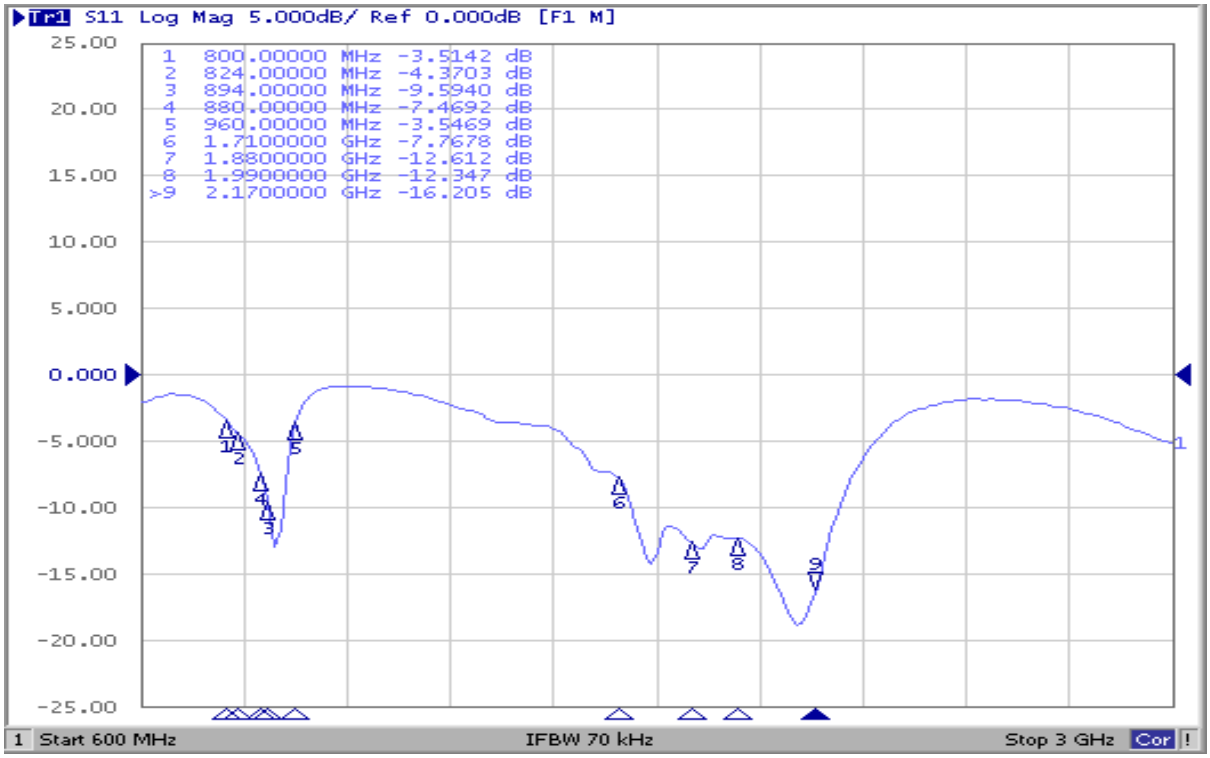
Operating Temperature (˚C)	- 40 ˚C ~ + 85 ˚C
Storage Temperature(˚C)	- 40 ˚C ~ + 85 ˚C

3. Antenna parameters

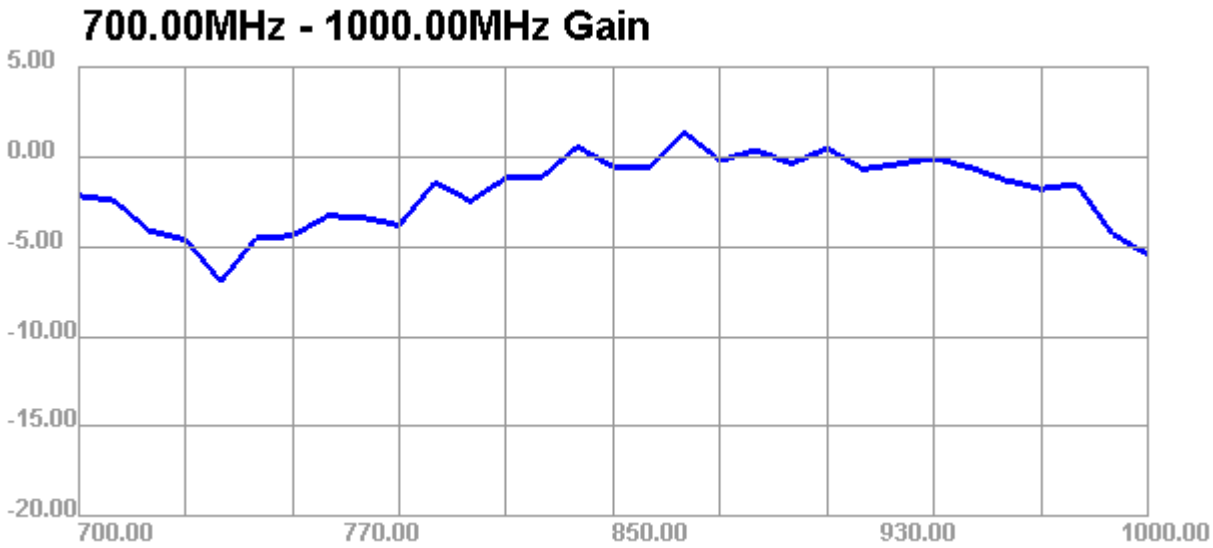
FRE（MHz）	800	824	894	880	960	1710	1880	1990	2170
VSWR	5.02	4.06	2.01	2.48	4.96	2.38	1.61	1.63	1.36
Return Loss	-3.51	-4.37	-9.59	-7.46	-3.54	-7.76	-12.61	-12.34	-16.20
Eff (%)	28.8	45.5	47.1	39.8	27.2	43.9	49.2	50.6	40.1
Average Gain(dB)	-5.4	-3.4	-3.2	-4.0	-5.7	-3.5	-3.1	-2.9	-3.9

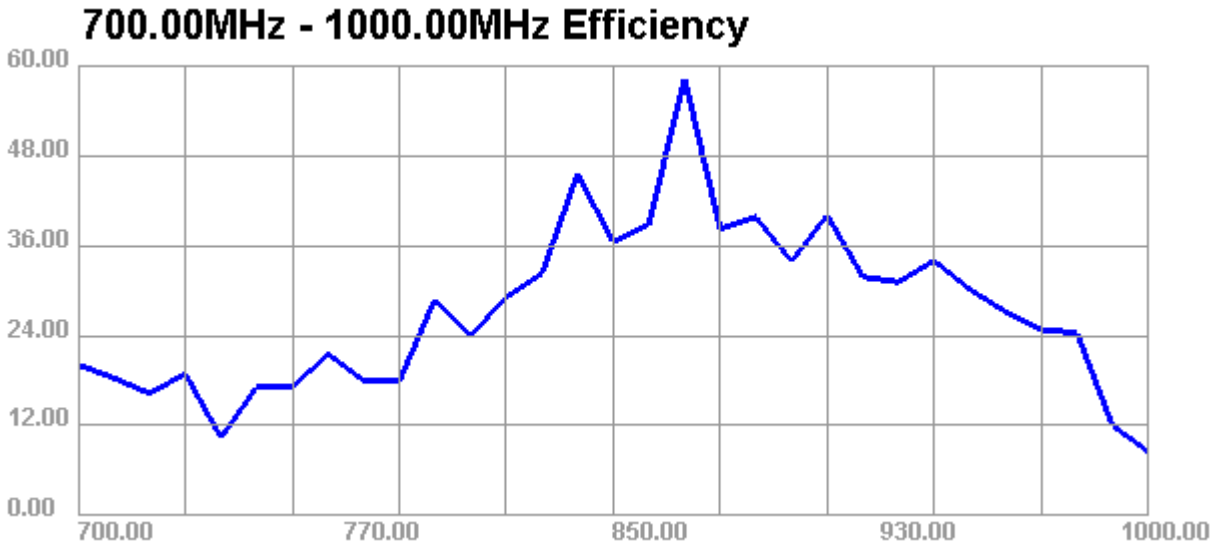


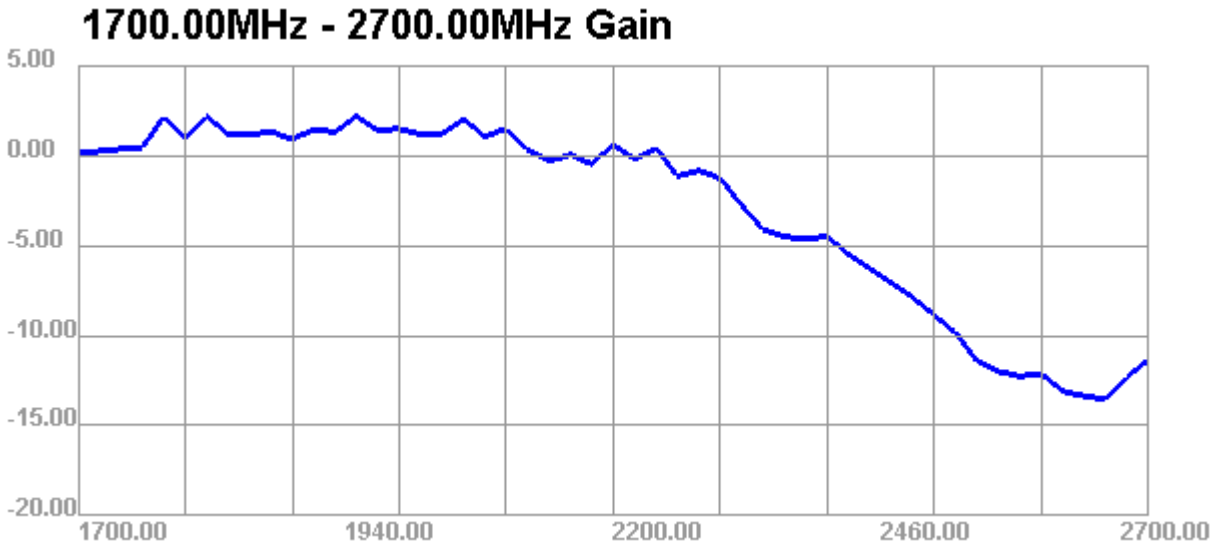
VSWR

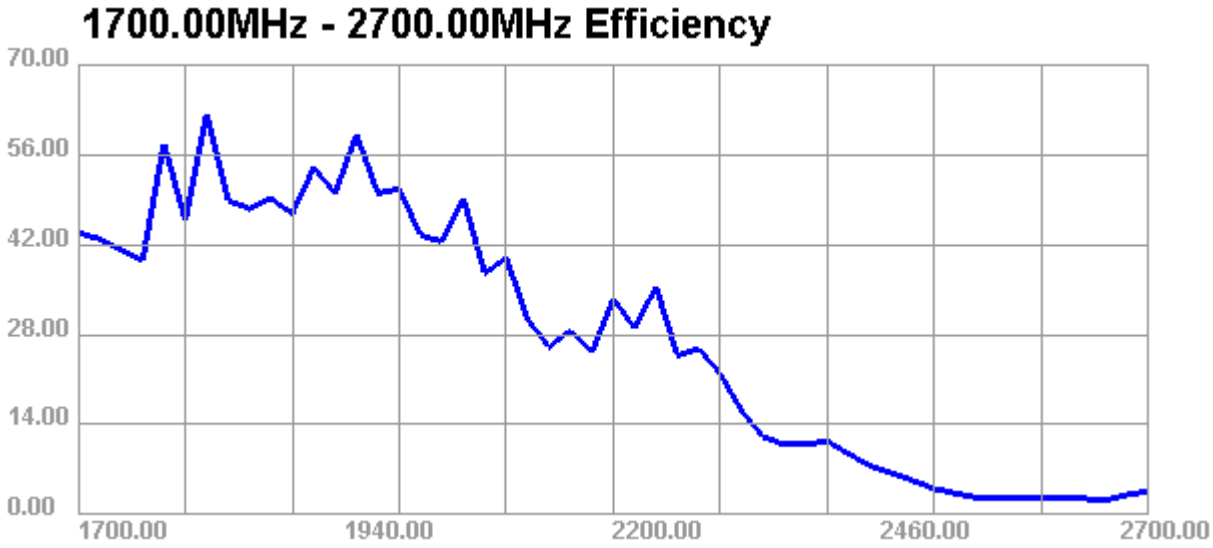


Return Loss

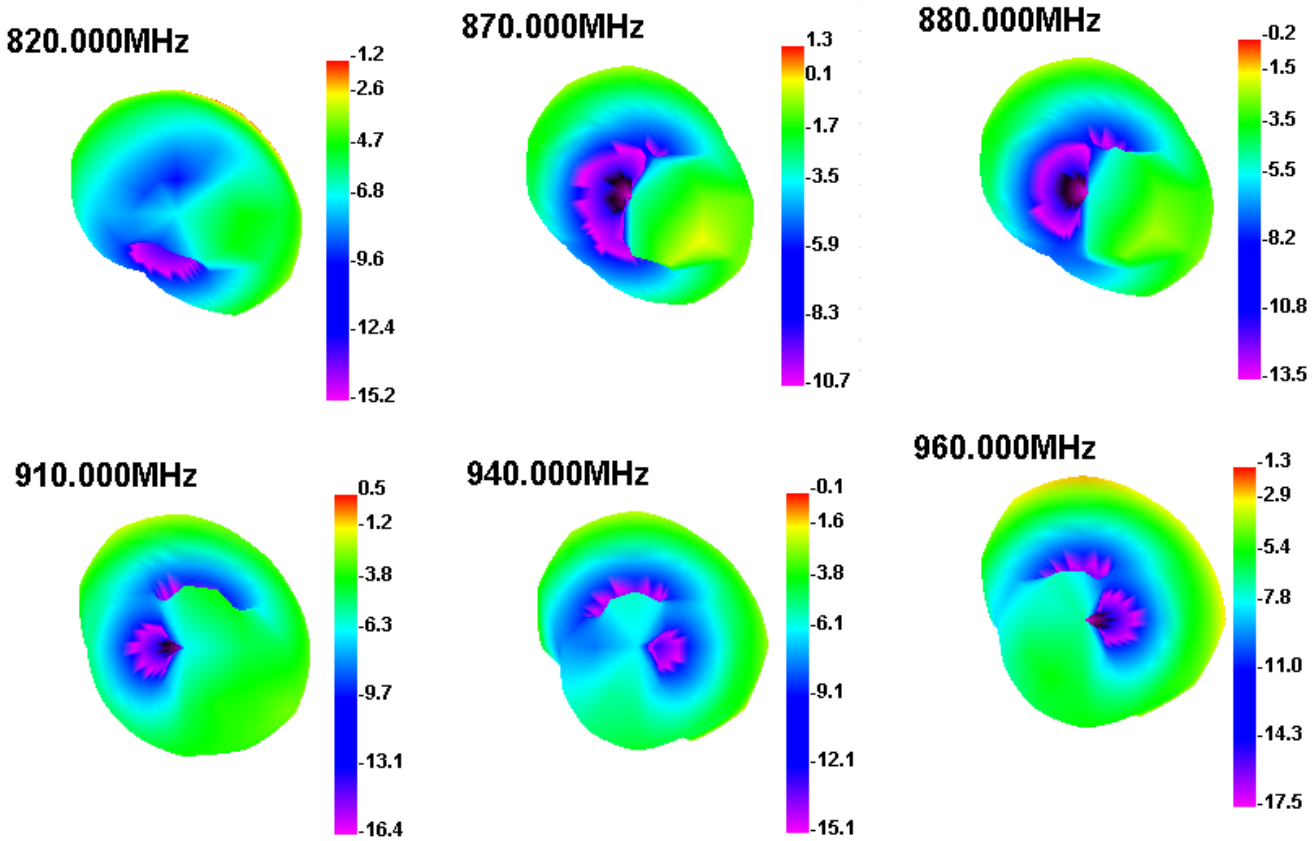

700.00MHz - 1000.00MHz Gain
5.00
0.00
-5.00
-10.00
-15.00
-20.00
700.00
770.00
850.00
930.00
1000.00

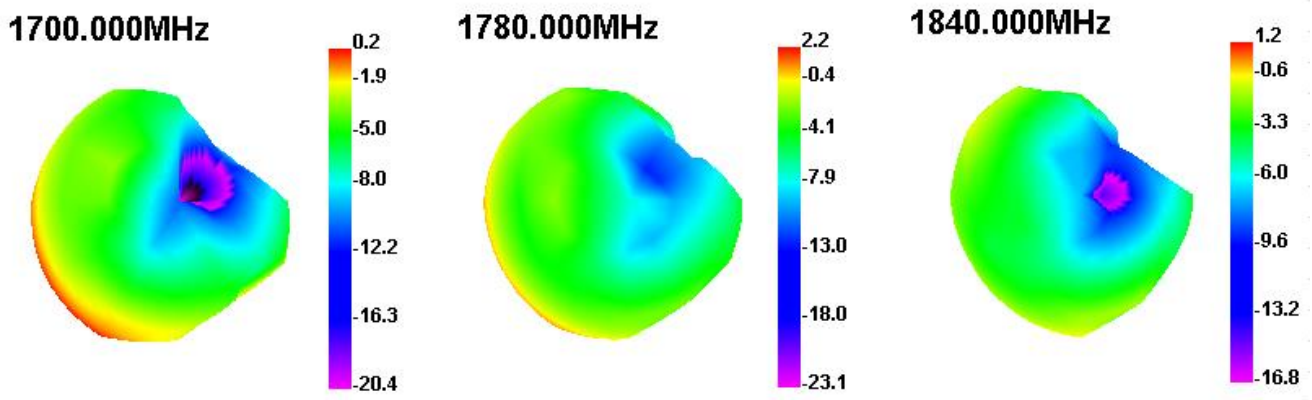

700.00MHz - 1000.00MHz Efficiency
60.00
48.00
36.00
24.00
12.00
0.00
700.00
770.00
850.00
930.00
1000.00

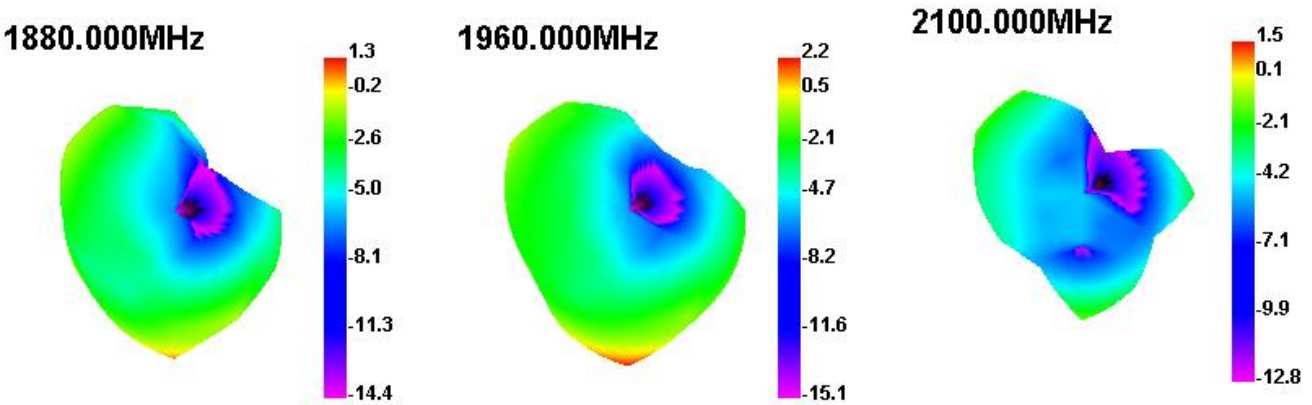

1700.00MHz - 2700.00MHz Gain
5.00
0.00
-5.00
-10.00
-15.00
-20.00
1700.00
1940.00
2200.00
2460.00
2700.00



Directional pattern




1700.000MHz
0.2
-1.9
-5.0
-8.0
-12.2
-16.3
-20.4
1780.000MHz
2.2
-0.4
-4.1
-7.9
-13.0
-18.0
-23.1
1840.000MHz
1.2
-0.6
-3.3
-6.0
-9.6
-13.2
-16.8


1880.000MHz
1.3
-0.2
-2.6
-5.0
-8.1
-11.3
-14.4
1960.000MHz
2.2
0.5
-2.1
-4.7
-8.2
-11.6
-15.1
2100.000MHz
1.5
0.1
-2.1
-4.2
-7.1
-9.9
-12.8

4. Antenna Drawings

