SUNNYWAY

SWF001

PN: SW19006IB77



Sunnyway Technology

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1. Electrical Specifications

Standards	4G&3G&2G	
Frequency range (MHz)	824~960MHz	1710~2690MHz
Peak Gain (dBi)	-3.5~0.5dBi	2.0~5.0dBi
Average Gain (dB)	-6.9~-3.6dB	-3.0~-1.5dB
VSWR	<4.5	<2.8
Return Loss	<-4.0	<-6.5
Efficiency (%)	20~43%	50~70%
Polarization mode	Linear	Linear
Radiation pattern	Omni-Directional	Omni-Directional
Output impedance (Ω)	50	50
Max. Input Power(W)	25	25

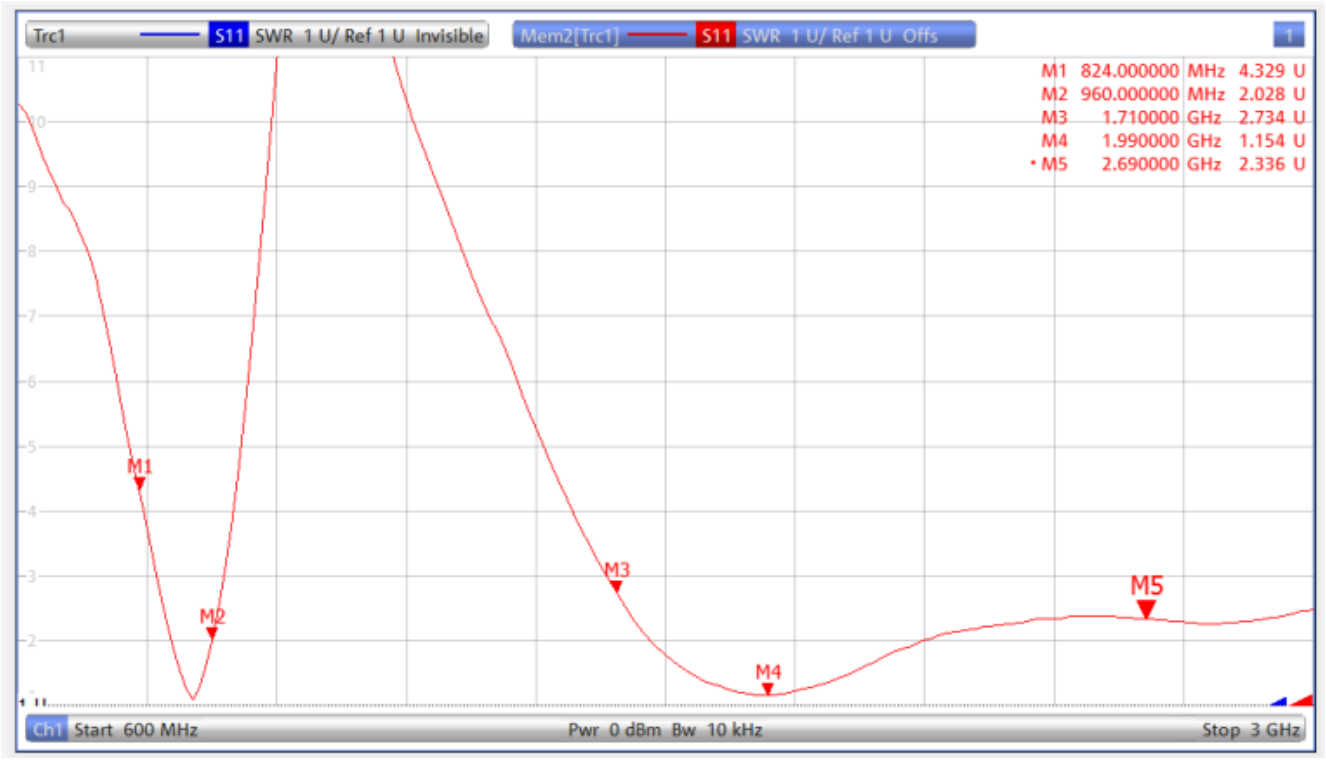
2. Mechanical and Environmental Specification

Mounting Type	Adhesive
Adhesive Type	3M9471
Connector Type	U.FL Standard
Antenna size(mm)	62.0mm (L) x 19.0mm (W) x0.12mm (H)
Material	FPC

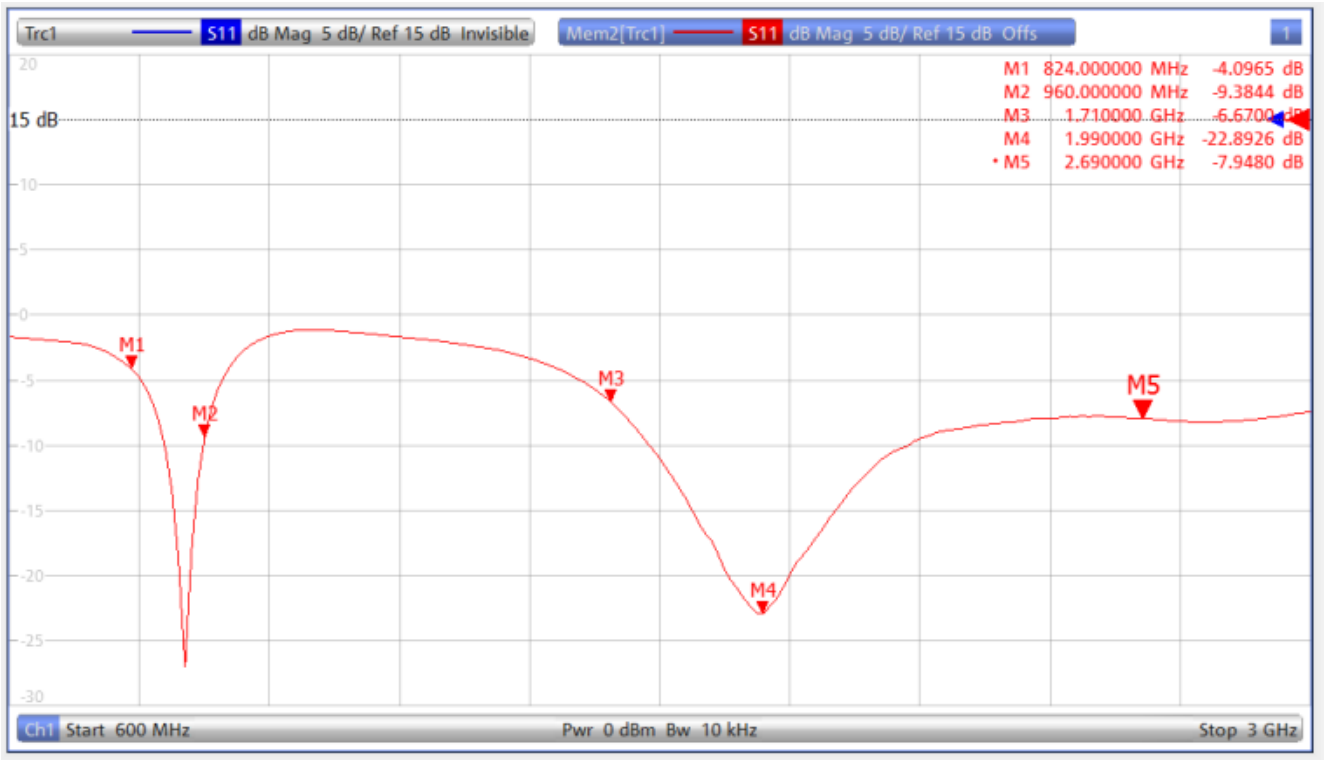
Cable length(mm)	101mm
Operating Temperature (˚C)	- 40 ˚C ~ + 85 ˚C
Storage Temperature(˚C)	- 40 ˚C ~ + 85 ˚C

3. Antenna parameters

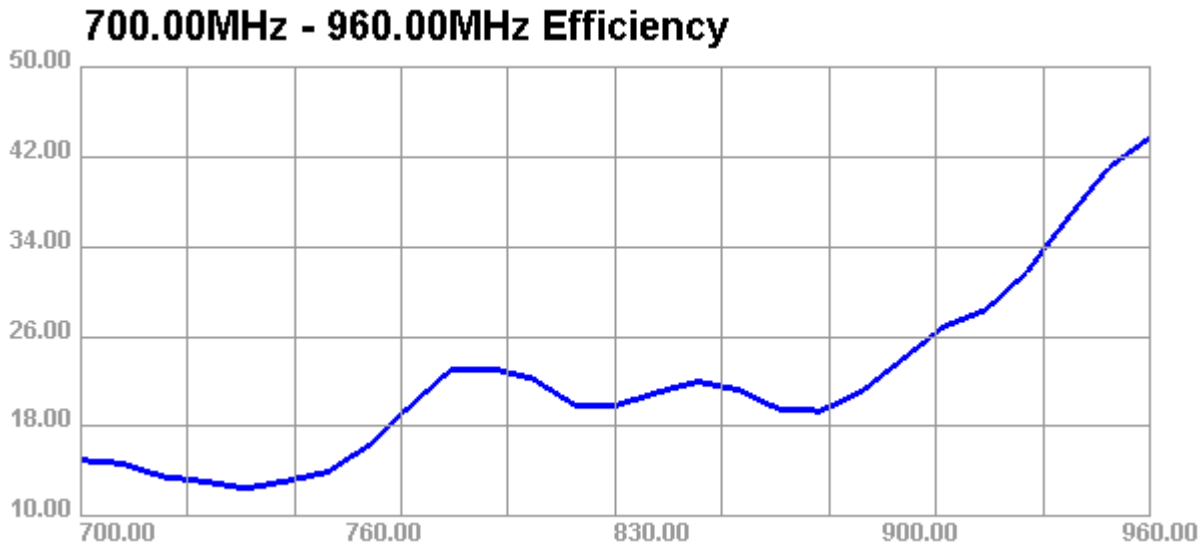
FRE（MHz）	824	960	1710	1990	2690
VSWR	4.32	2.02	2.73	1.15	2.33
Return Loss	-4.09	-9.38	-6.67	-22.89	-7.94
Eff (%)	20.1	43.7	53.5	63.9	56.2
Average Gain(dB)	-7.01	-3.59	-2.71	-1.95	-2.50

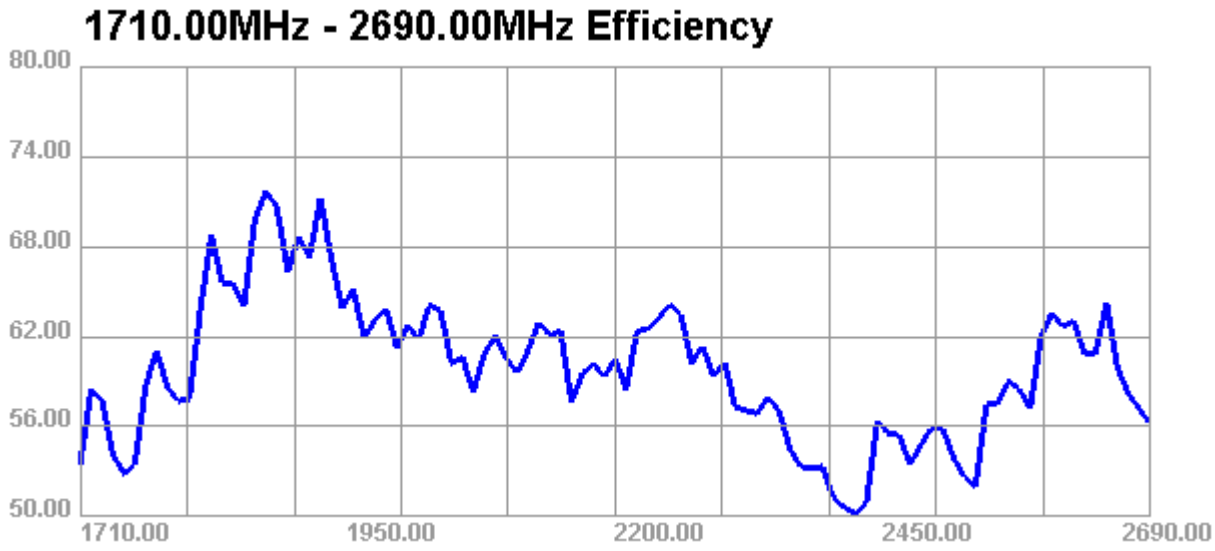


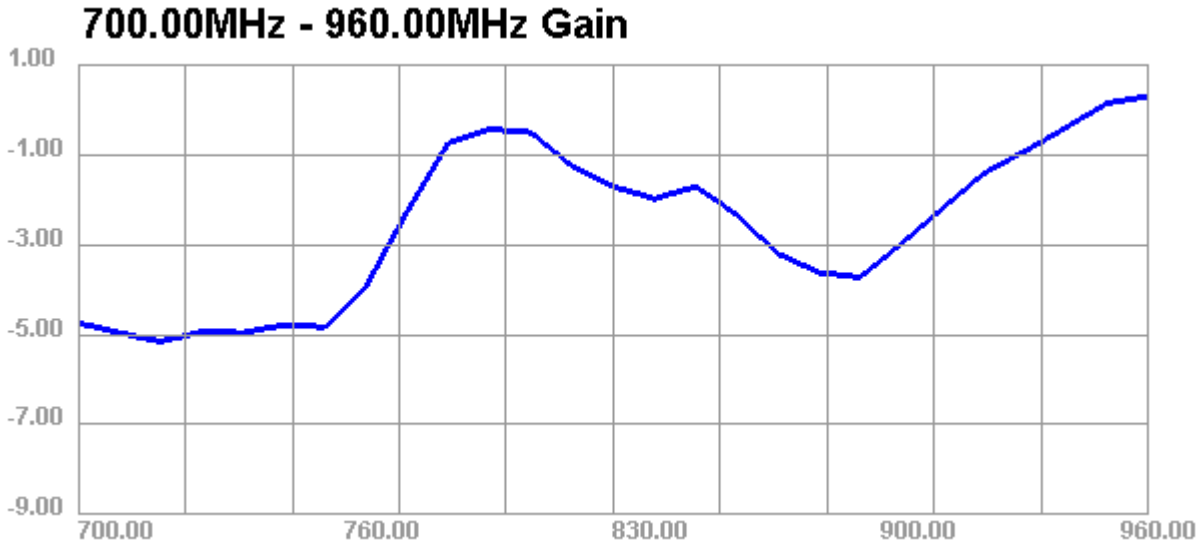
VSWR

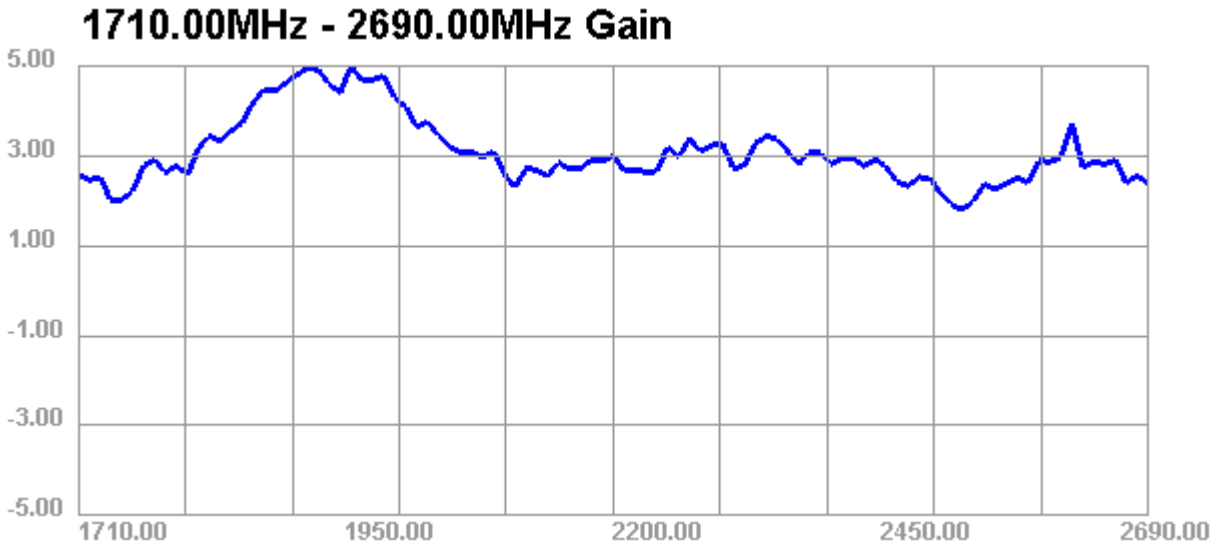


Return Loss

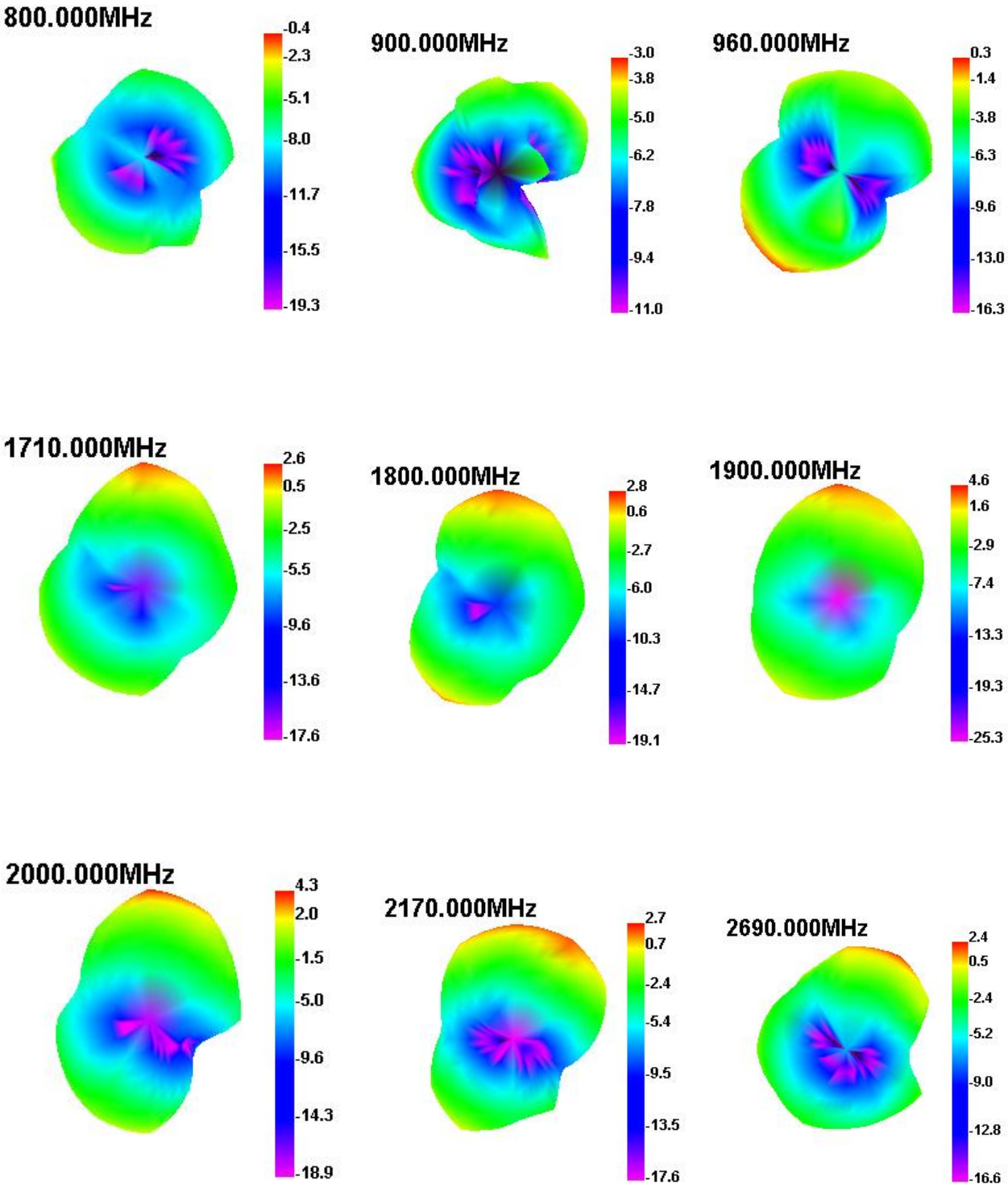

700.00MHz - 960.00MHz Efficiency
50.00
42.00
34.00
26.00
18.00
10.00
700.00
760.00
830.00
900.00
960.00


1710.00MHz - 2690.00MHz Efficiency
80.00
74.00
68.00
62.00
56.00
50.00
1710.00
1950.00
2200.00
2450.00
2690.00


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


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

