



SUNNYWAY

SWF001

PN:SW19006IB77



Sunnyway Technology

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1. Electrical Specifications

Standards	4G/3G/2G
Frequency range	824~960,1710~2690MHz
Peak Gain(dBi)	0~4dBi
Average Gain(dBi)	-1~-3dB
Polarization mode	Linear
VSWR	~2-4
Return Loss	~-4dB
Efficiency(%)	30~60%
Radiation pattern	Omni-Directional
Output impedance (Ω)	50
Max. Input Power(W)	25

2. Mechanical and Environmental Specification

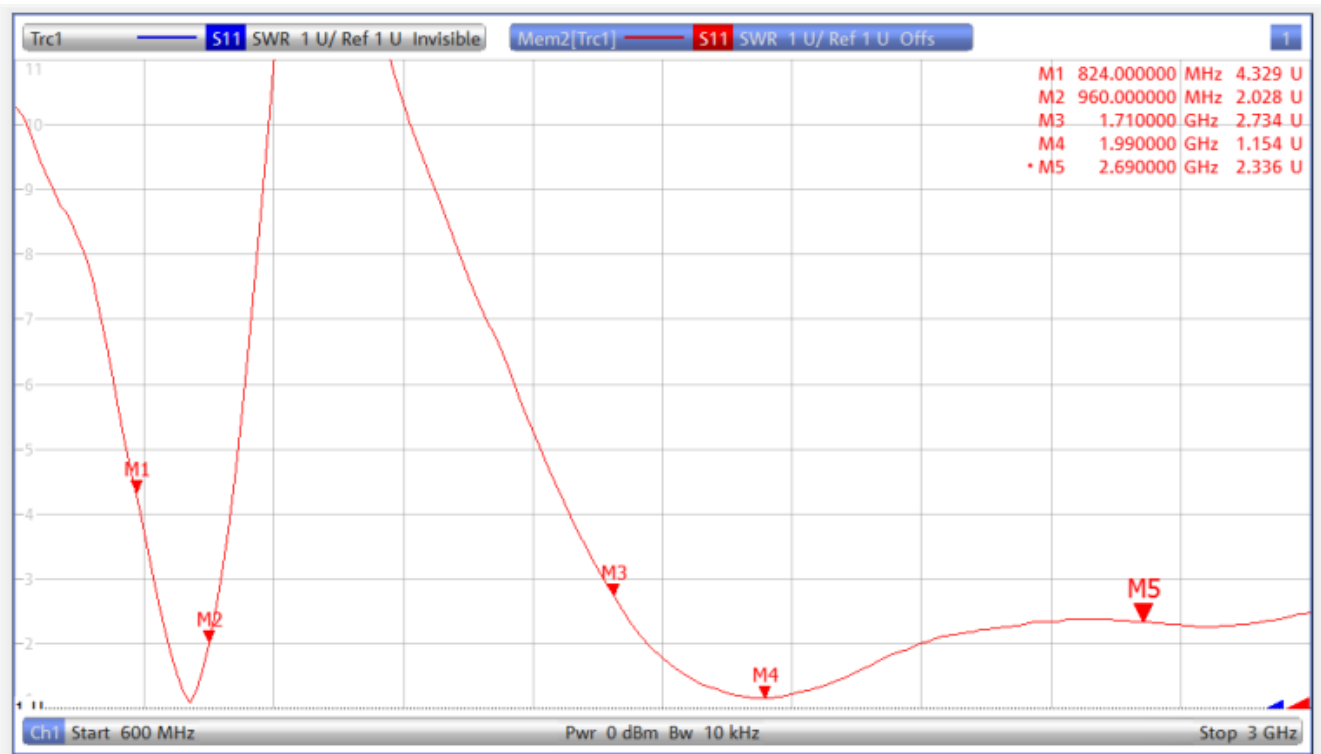
Mounting Type	Adhesive
Adhesive Type	3M9471
Connector Type	U.FL Standard
Antenna size(mm)	62.0mm (L) x 19.0mm (W) x0.12mm (H)
Material	FPC



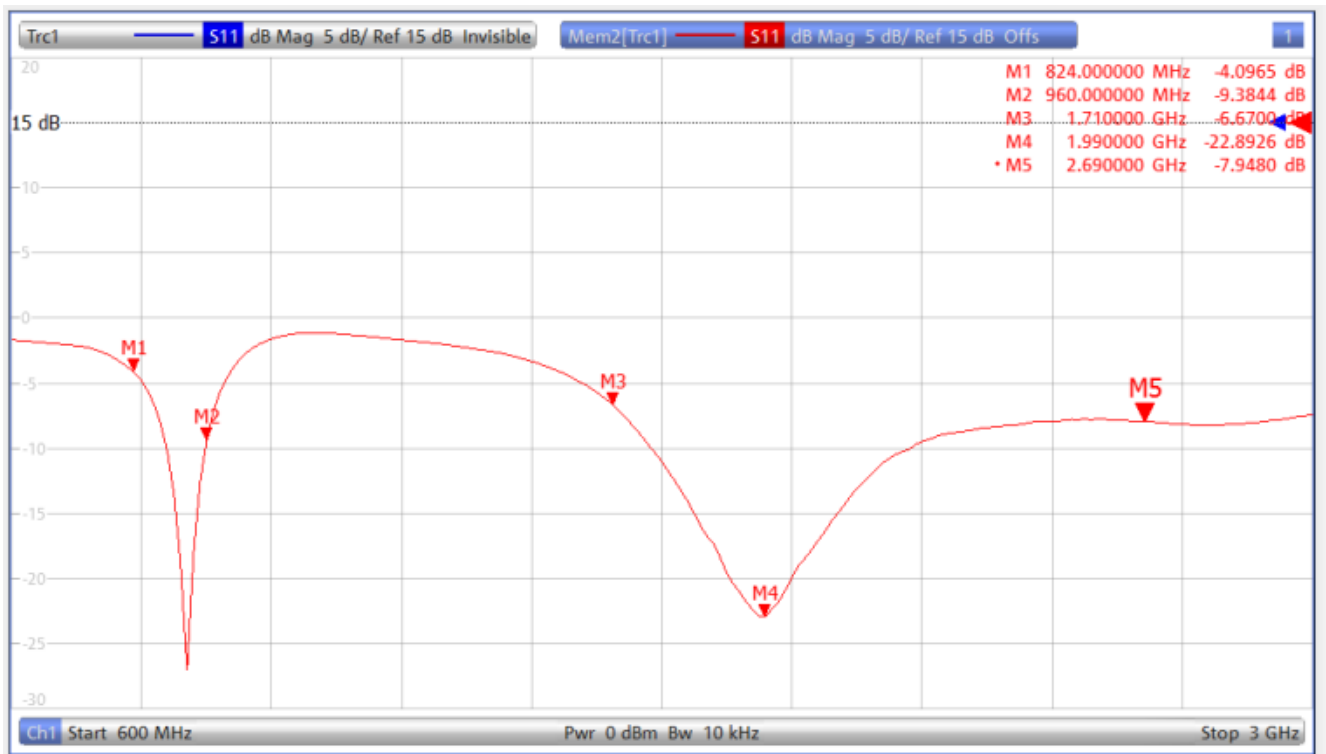
Cable length(mm)	101mm
Operating Temperature (°C)	- 40 °C ~ + 85 °C
Storage Temperature(°C)	- 40 °C ~ + 85 °C

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	-22.8	-7.94
Eff(%)	20.1	43.71	53.5	63.9	56.2
AVE Gain(dBI)	-7.01	-3.59	-2.71	-1.95	-2.50

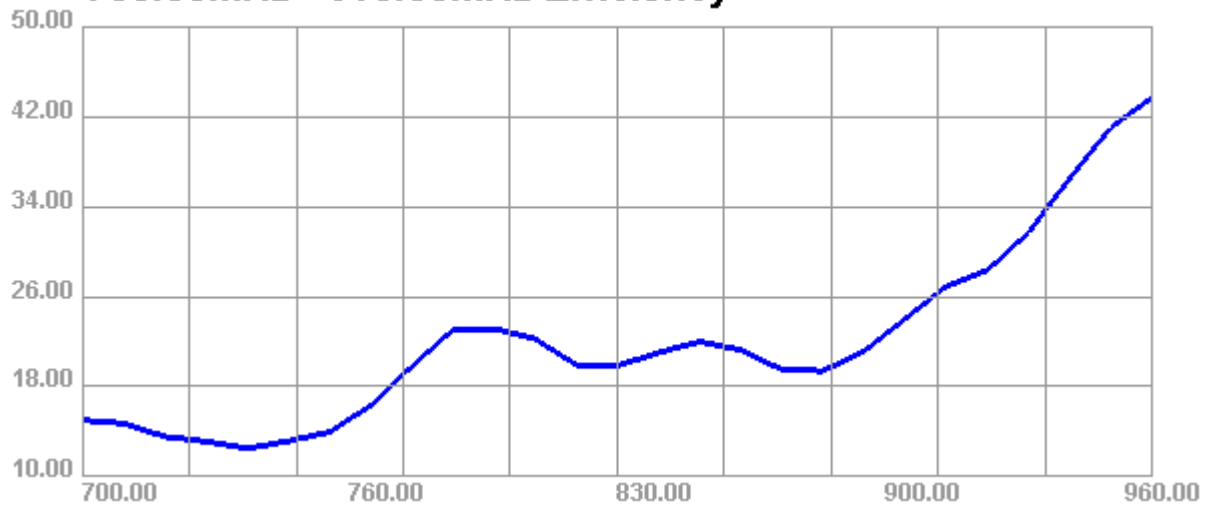


VSWR

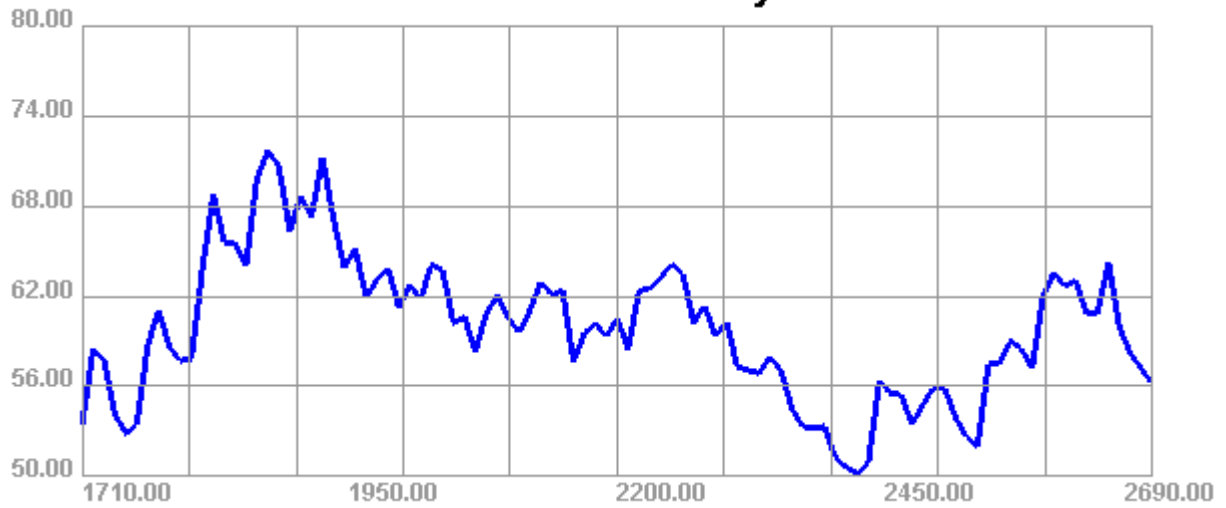


Return Loss

700.00MHz - 960.00MHz Efficiency

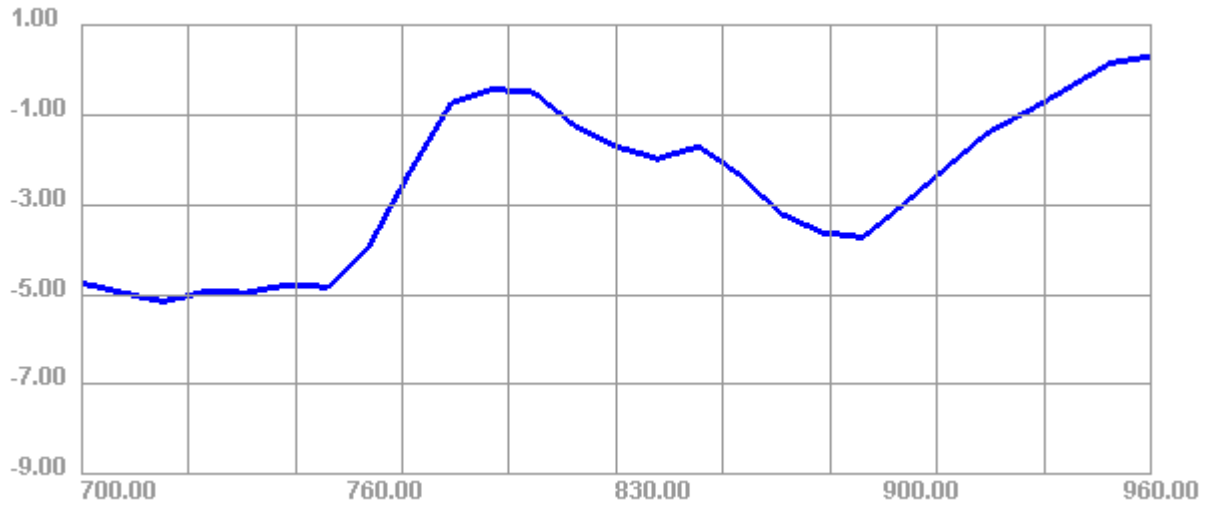


1710.00MHz - 2690.00MHz Efficiency

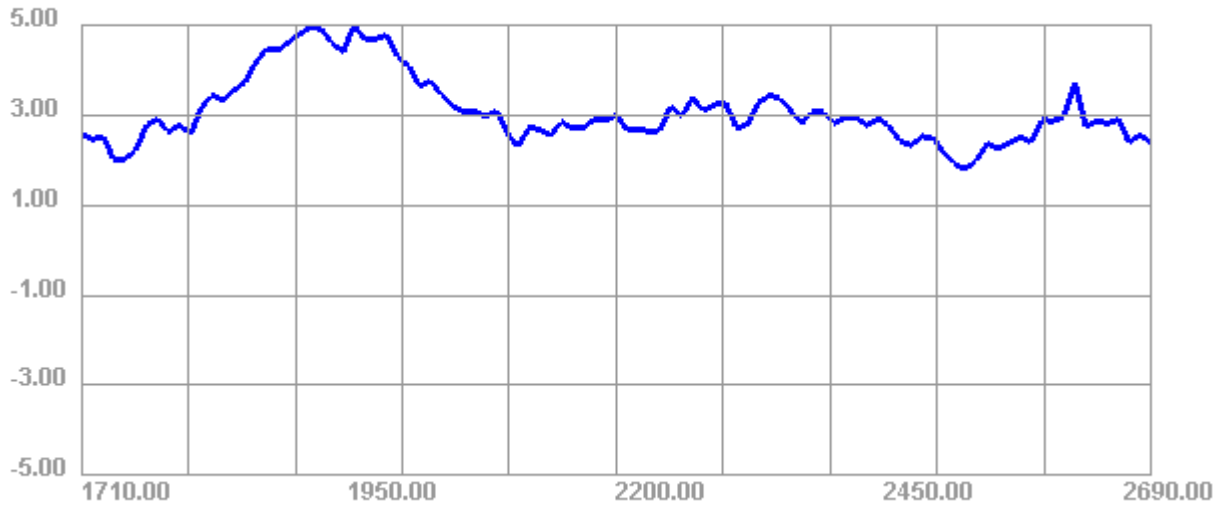




700.00MHz - 960.00MHz Gain

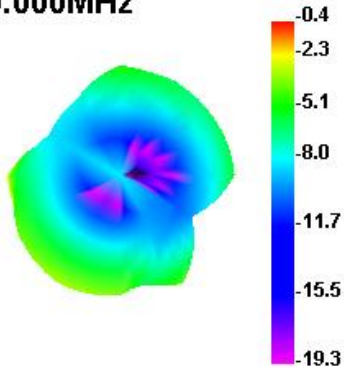


1710.00MHz - 2690.00MHz Gain

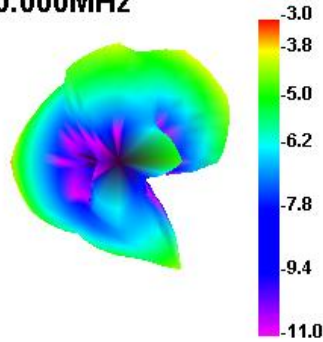


Directional pattern

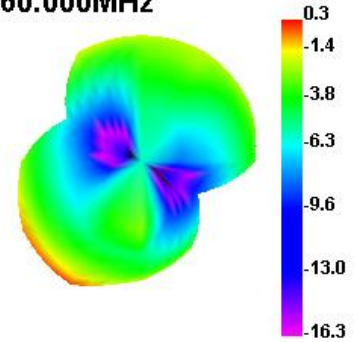
800.000MHz



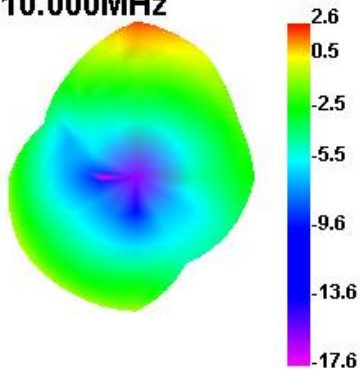
900.000MHz



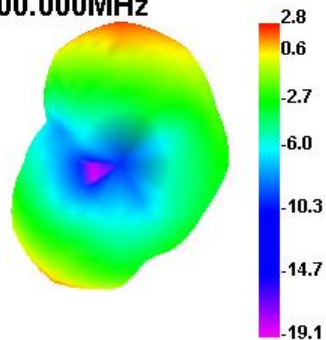
960.000MHz



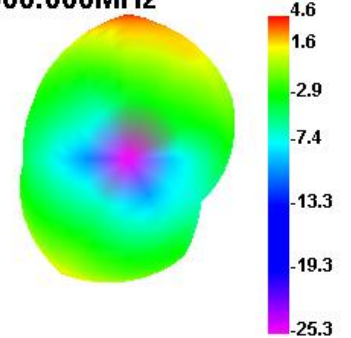
1710.000MHz



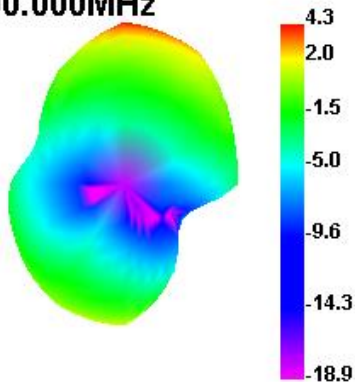
1800.000MHz



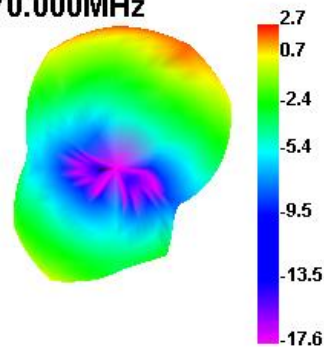
1900.000MHz



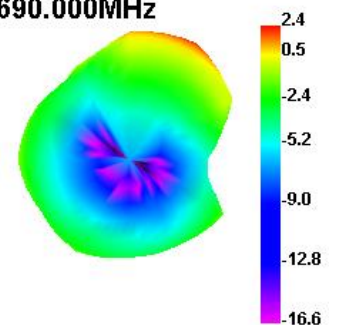
2000.000MHz



2170.000MHz

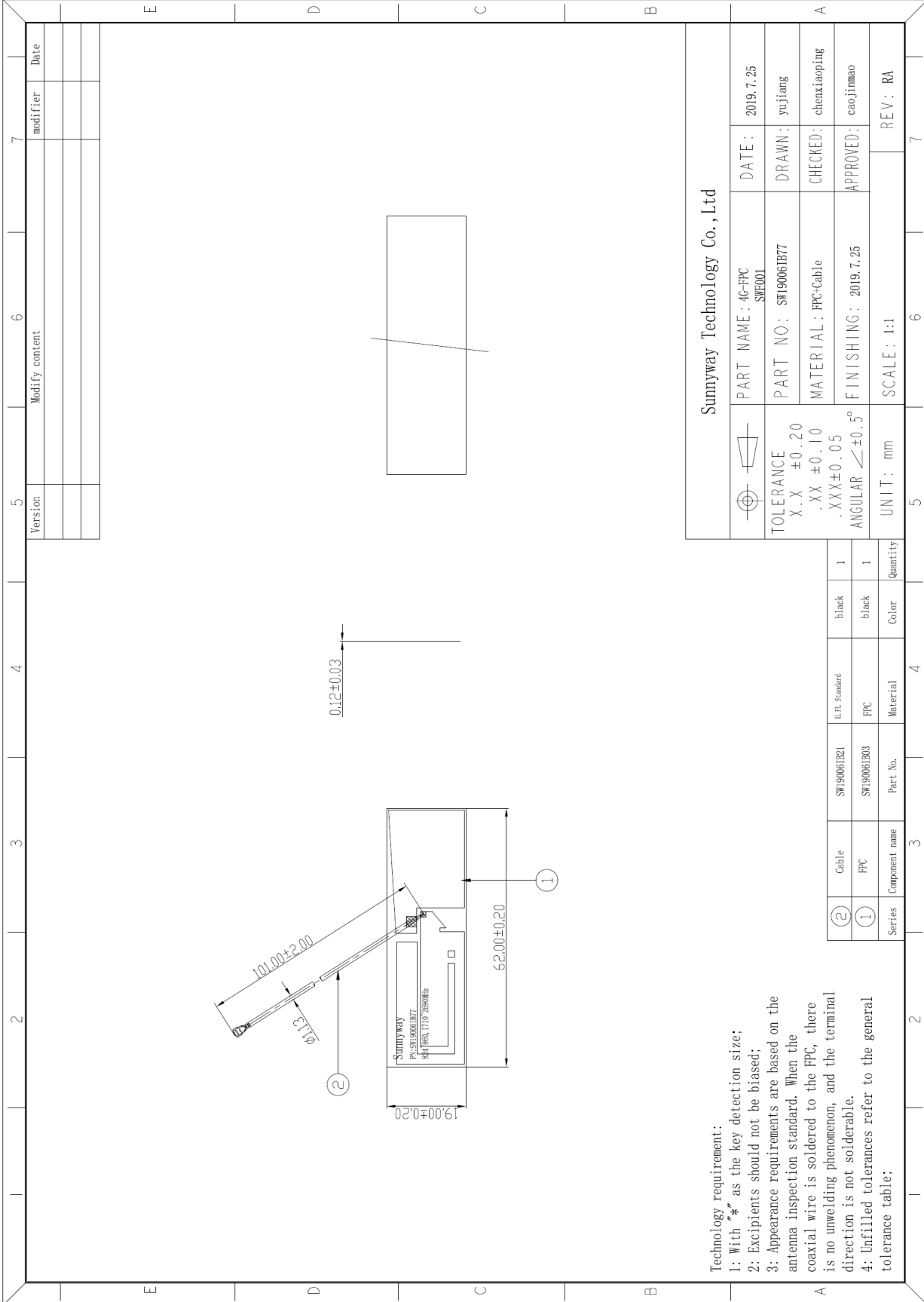


2690.000MHz





4. Antenna Drawings



Technology requirement:
 1: With "*" as the key detection size;
 2: Excipients should not be biased;
 3: Appearance requirements are based on the antenna inspection standard. When the coaxial wire is soldered to the PPC, there is no unwelding phenomenon, and the terminal direction is not solderable.
 4: Unfilled tolerances refer to the general tolerance table;

Sunnyway Technology Co., Ltd	
	PART NAME : 4G-PPC SWE001
	DATE : 2019.7.25
TOLERANCE X.X ±0.20 .XX ±0.10 .XXX±0.05 ANGULAR <= ±0.5°	PART NO : SW19006IB77 DRAWN : yujiang MATERIAL : PPC-Cable CHECKED : chenxiaoping FINISHING : 2019.7.25 APPROVED : caojimiao
UNIT : mm	SCALE : 1:1
	REV : RA

Version	Modify content	modifier	Date