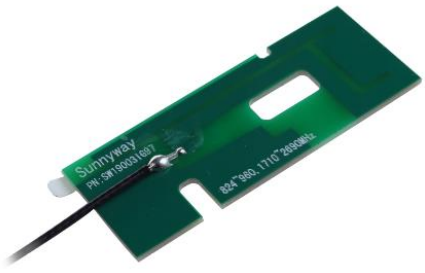
SUNNYWAY

SWP003

PN: SW19003IG97



Sunnyway Technology

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Tel: +86-021-6484 2326 Fax: +86-021-6484 2328
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1. Electrical Specifications

Standards	4G/3G/2G	
Frequency range (MHz)	824~960MHz	1710~2690MHz
Peak Gain (dBi)	-2.0~0dBi	0.5~3.5dBi
Average Gain (dB)	-6.6~-5.3dB	-4.9~-2.6dB
VSWR	<7.2	<3.0
Return Loss	<-2.4	<-6.2
Efficiency (%)	22~30%	32~55%
Polarization mode	Linear	Linear
Radiation pattern	Omni-Directional	Omni-Directional
Output impedance (Ω)	50	50
Max. Input Power(W)	25	25

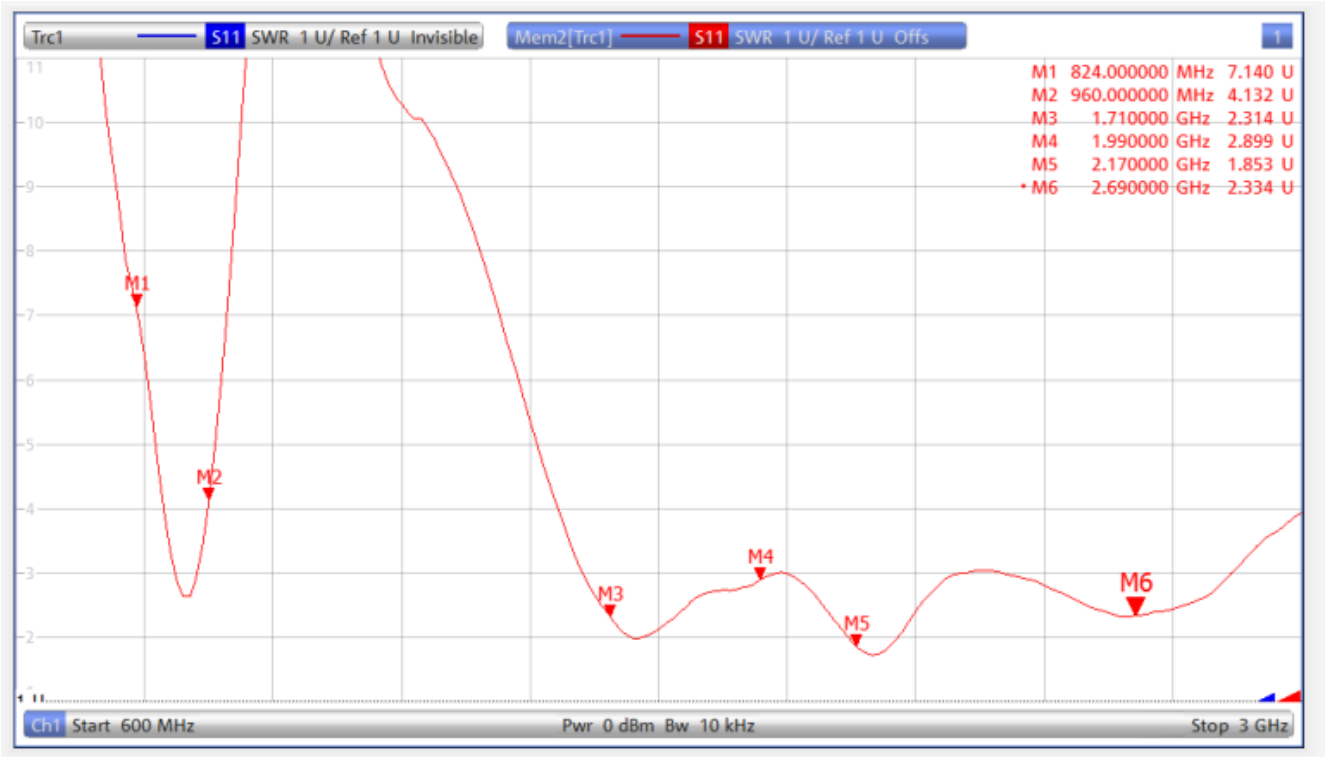
2. Mechanical and Environmental Specification

Mounting Type	Adhesive
Adhesive Type	3M9448A
Connector Type	U.FL Standard
Antenna size(mm)	43.36mm (L) x 17.0mm (W) x 1.0mm (H)
Material	PCB

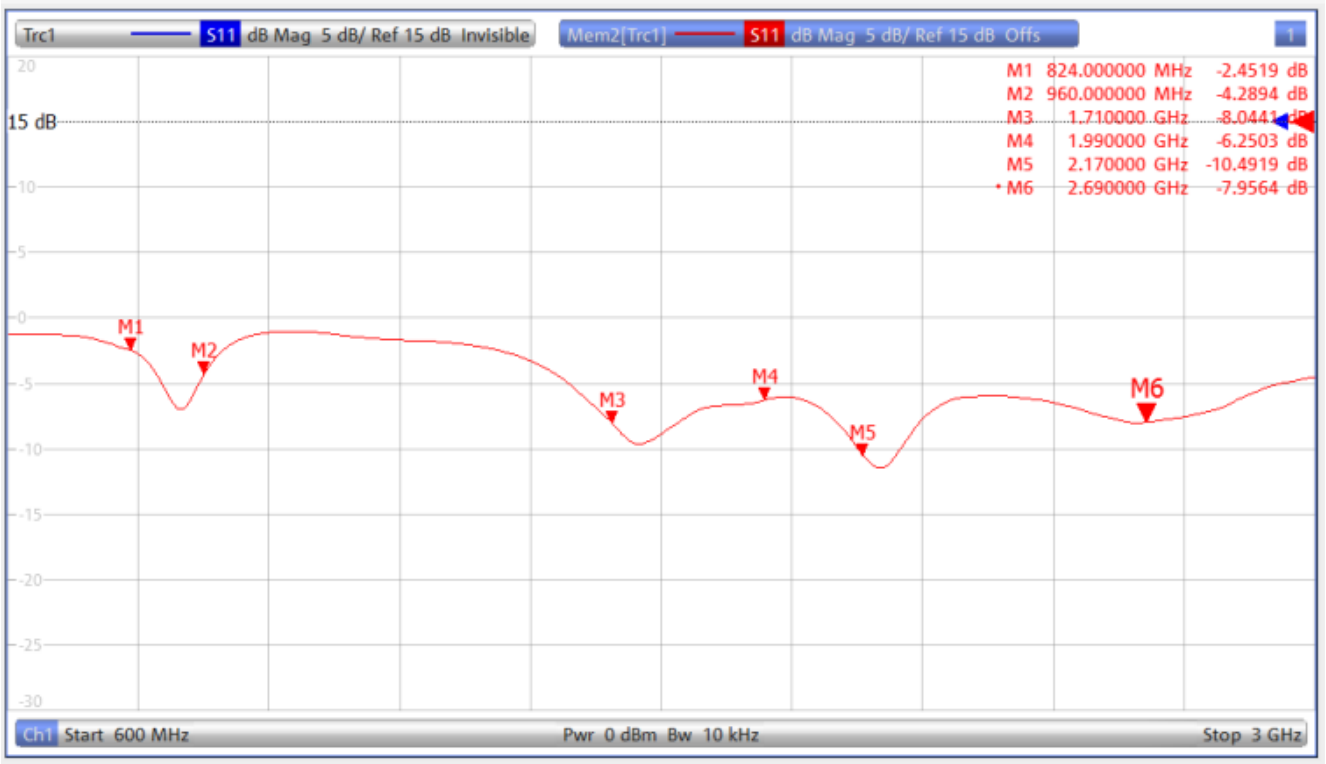
Cable length(mm)	101mm
Operating Temperature (˚C)	- 40 ˚C ~ + 85 ˚C
Storage Temperature(˚C)	- 40 ˚C ~ + 85 ˚C

3. Antenna parameters

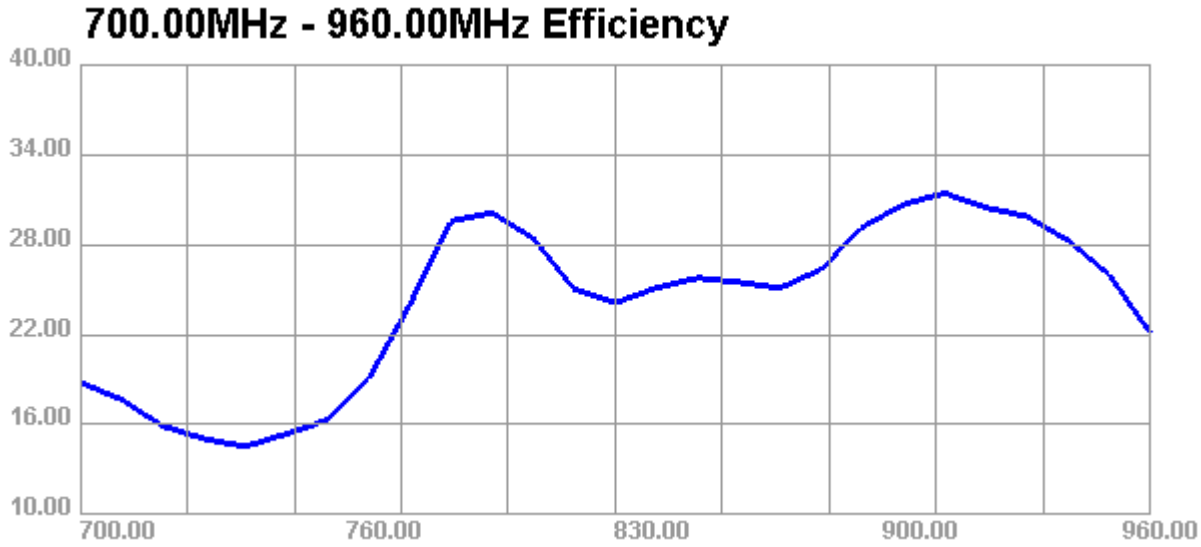
FRE (MHz)	824	960	1710	1990	2170	2690
VSWR	7.14	4.13	2.31	2.89	1.85	2.33
Return Loss	-2.45	-4.28	-8.04	-6.25	-10.49	-7.95
Eff (%)	25.0	22.1	46.1	34.6	47.2	52.9
Average Gain (dB)	-6.0	-6.5	-3.3	-4.6	-3.2	-2.7

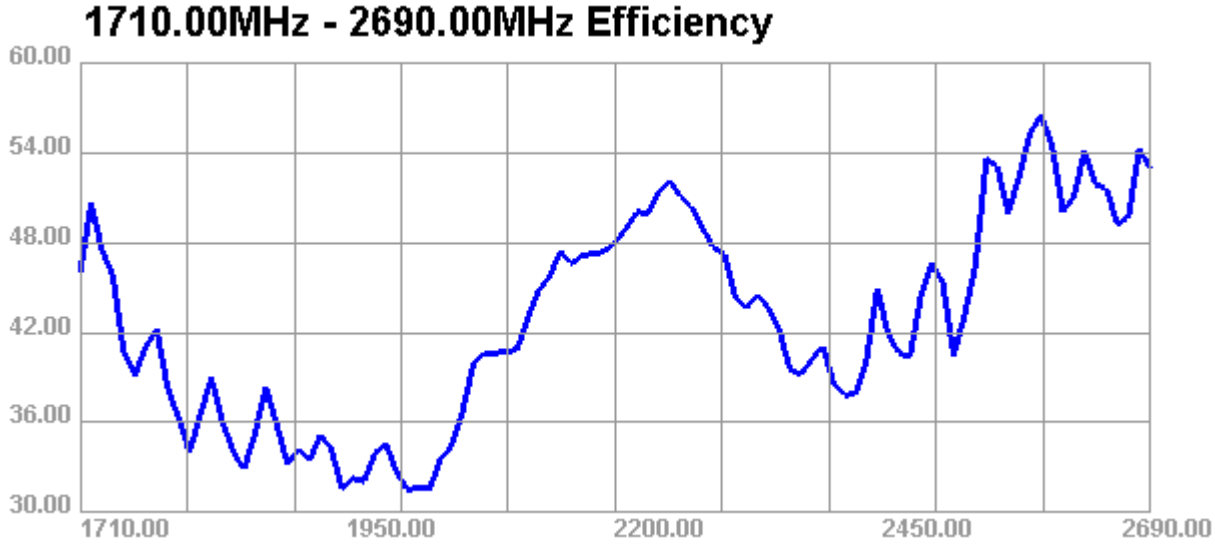


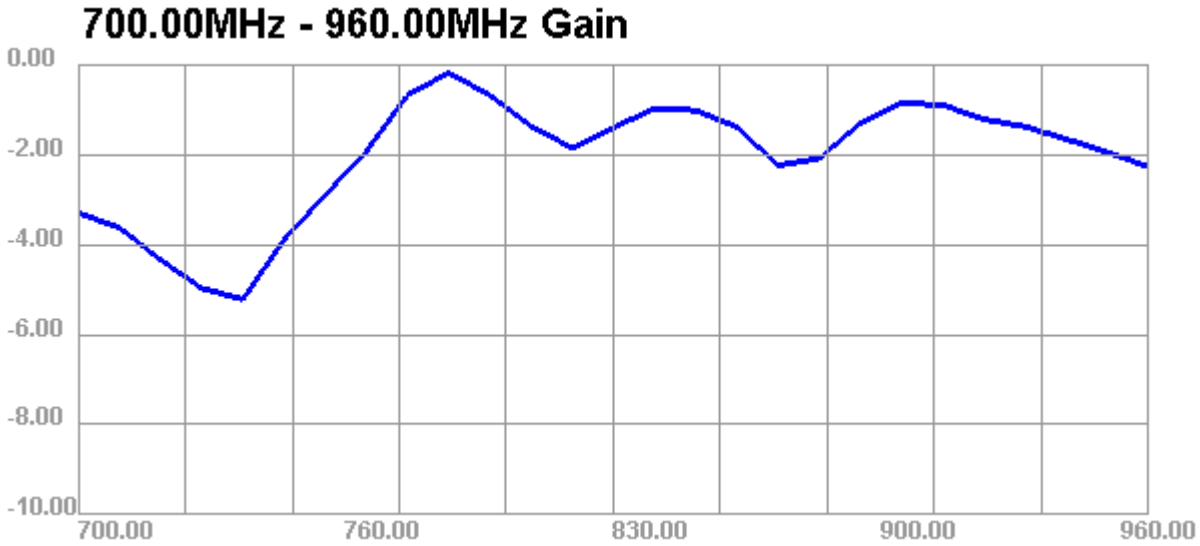
VSWR

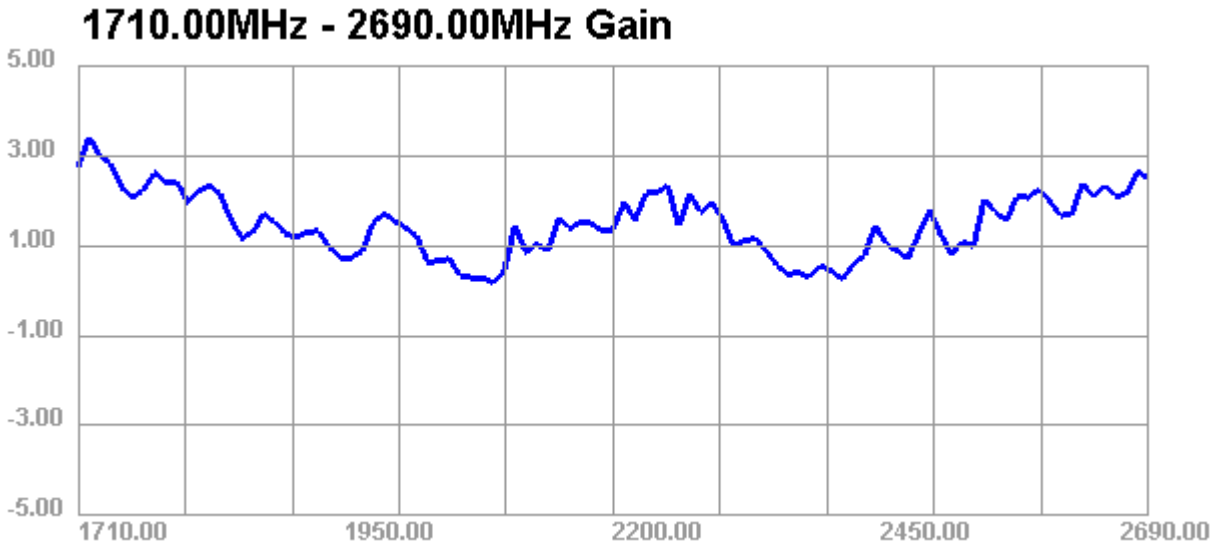


Return Loss

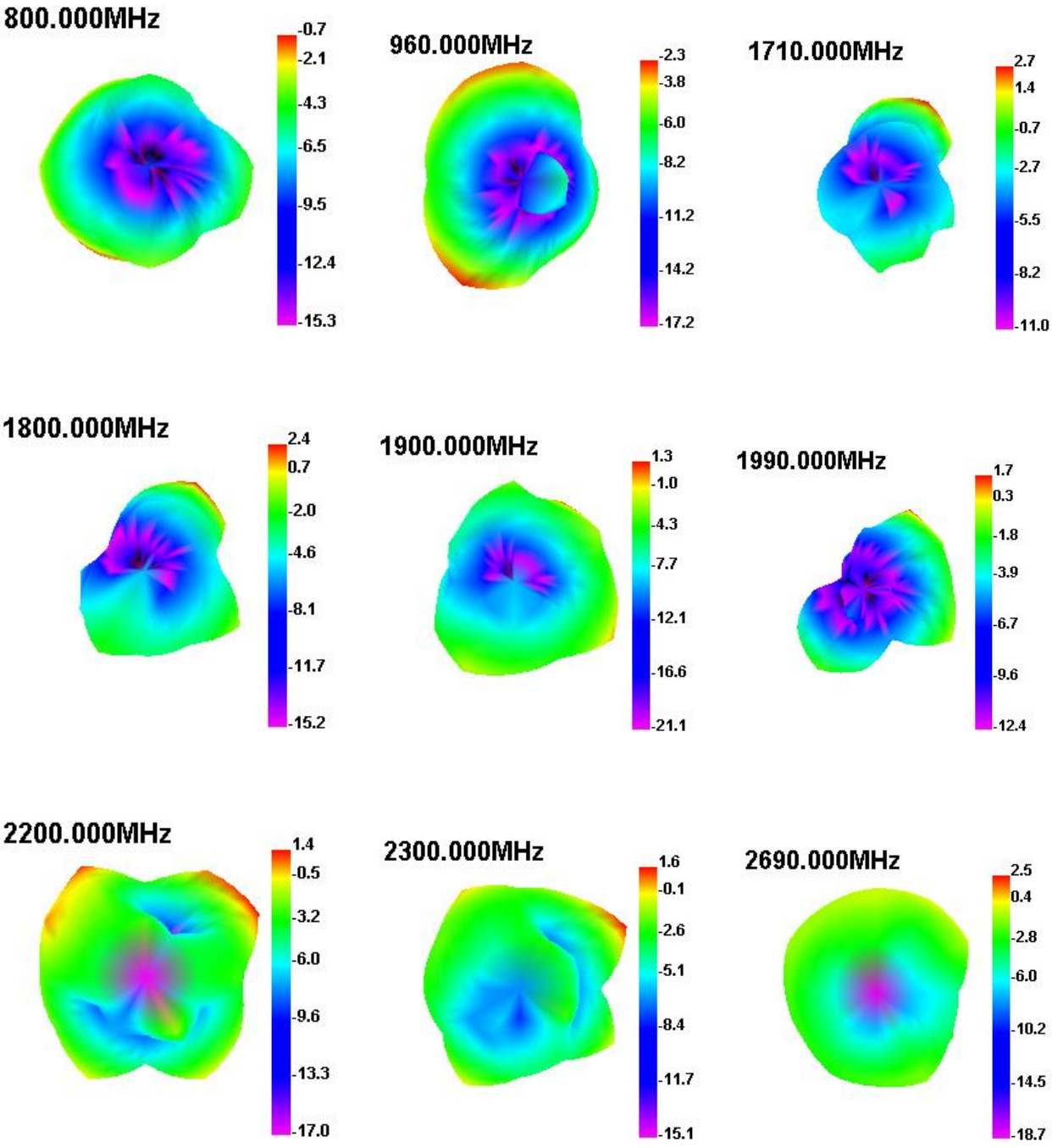

700.00MHz - 960.00MHz Efficiency
40.00
34.00
28.00
22.00
16.00
10.00
700.00
760.00
830.00
900.00
960.00


1710.00MHz - 2690.00MHz Efficiency
60.00
54.00
48.00
42.00
36.00
30.00
1710.00
1950.00
2200.00
2450.00
2690.00

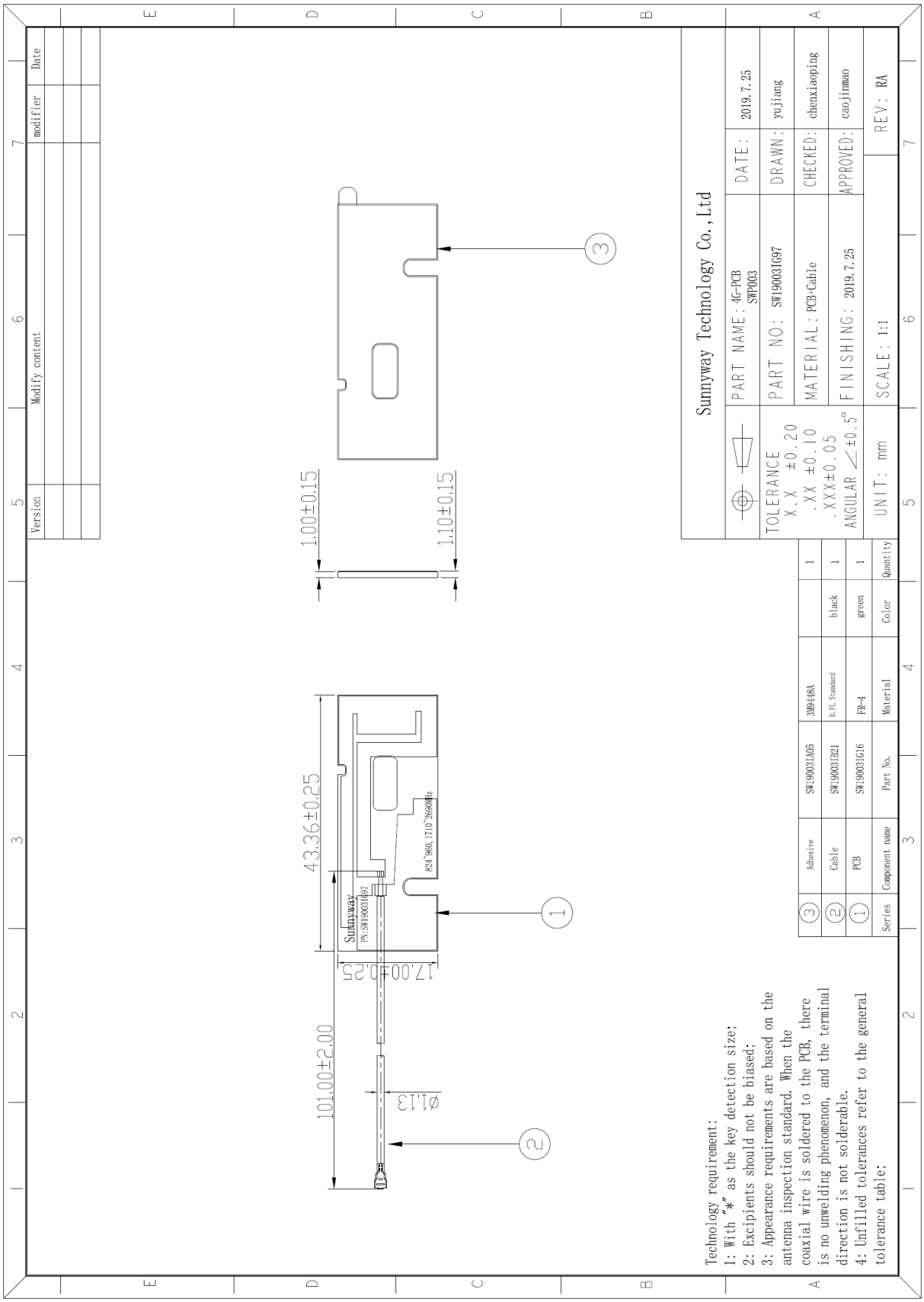

700.00MHz - 960.00MHz Gain
0.00
-2.00
-4.00
-6.00
-8.00
-10.00
700.00
760.00
830.00
900.00
960.00


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



Series	Component name	Part No.	Material	Color	Quantity
①	PCB	SW19003IG16	FR-4	green	1
②	Cable	SW19003IB21	U.FL Standard	black	1
③	Adhesive	SW19003IA05	3M9448A		1