GWC30CM

PN: SW26062IB77



Key features:

- Antenna for 2.4G WiFi&5G WiFi&WiFi6&6E，GPS&GLONASS&GALILEO&BEIDOU
- Small size
- Impedance 50 Ohm

Typical applications:

- Remote monitoring
- Network devices
- Gateway
- Router/CPE
- Others

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1. Specification

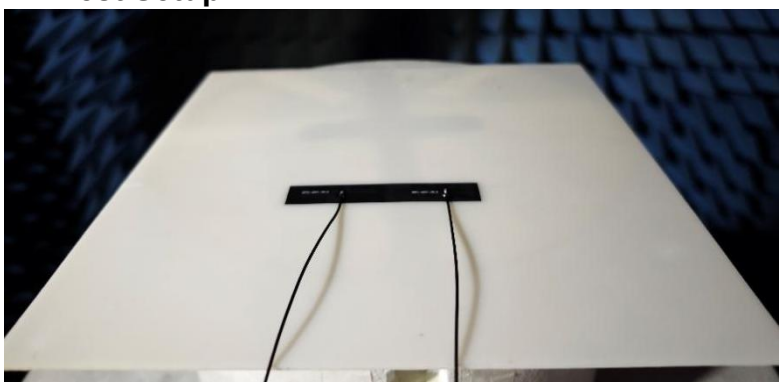
Electrical: Test on 4mm thickness ABS material		
Frequency band	2.4G WiFi&5G WiFi&WiFi6&6E	
Frequency range (MHz)	2400~2500	5100~7125
Peak Gain (dBi)	2.0 ~ 2.6	3.0 ~ 5.0
Average Gain (dB)	-3.0 ~ -2.6	-3.5 ~ -2.6
VSWR	< 2.0	< 2.0
Return Loss	< -10.0	< -10.0
Efficiency (%)	50.0 ~ 55.0	45.0 ~ 55.0
Polarization mode	Linear	
Radiation pattern	Omni-Directional	
Output impedance (Ω)	50	
Max. Input Power(W)	5	

Electrical: Test on 4mm thickness ABS material			
Frequency band	GPS /GLONASS/GALILEO/BEIDOU		
Frequency range (MHz)	1561	1575	1602
Peak Gain (dBi)	2.0	2.4	1.5
Average Gain (dB)	-2.8	-2.2	-2.9
VSWR	1.36	1.32	1.36
Return Loss	-16.22	-16.98	-16.28
Efficiency (%)	53.0	60.0	51.0
Polarization mode	Linear		
Radiation pattern	Omni-Directional		
Output impedance (Ω)	50		
Max. Input Power(W)	5		

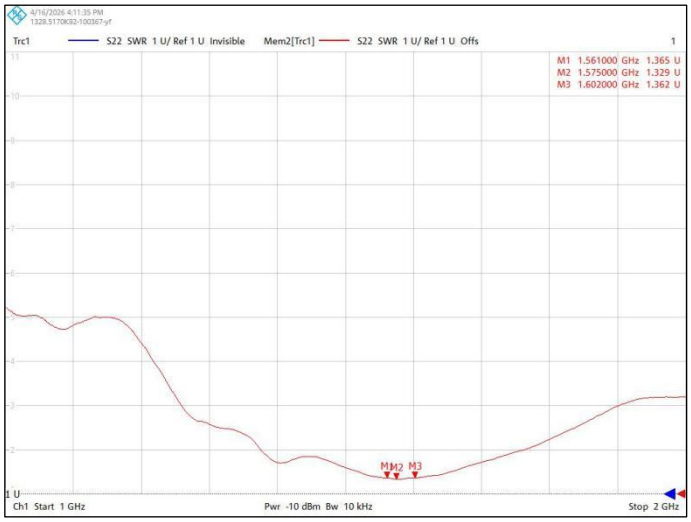
Mechanical	
Mounting Type	Adhesive
Adhesive Type	3M9471LSE
Connector Type	RF1
Antenna size(mm)	85 (L) x15 (W) x0.12 (H)
Material	FPC
Cable length(mm)	300mm
Weight	1.5g（1pcs）
Environmental	
Operating Temperature (˚C)	- 20˚C ~ + 65˚C
Storage Temperature(˚C)	- 20˚C ~ + 65˚C

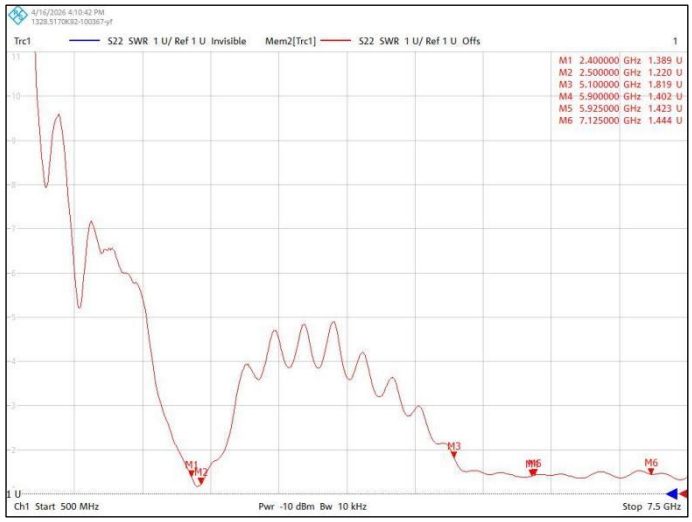
2. Antenna Characteristics

2.1 Test Setup

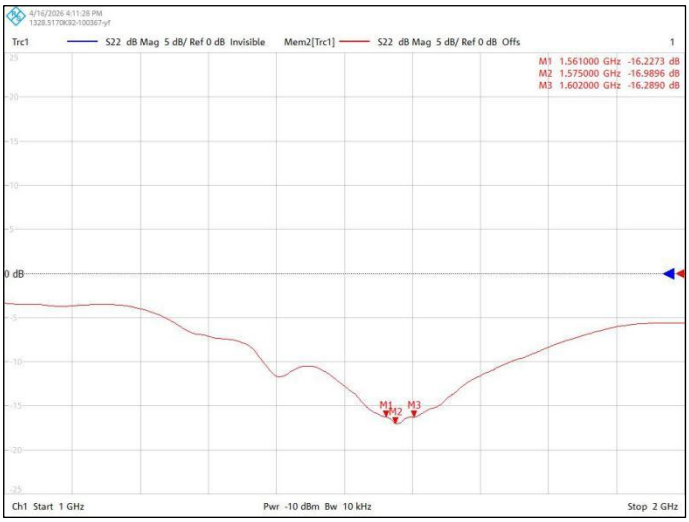


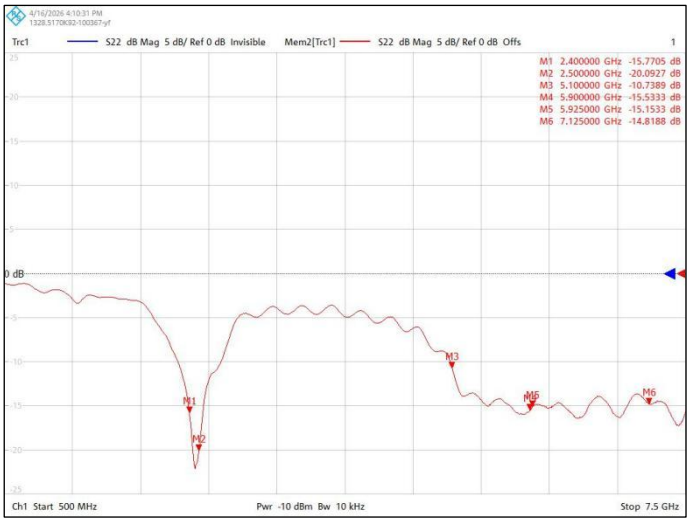
2.2 VSWR



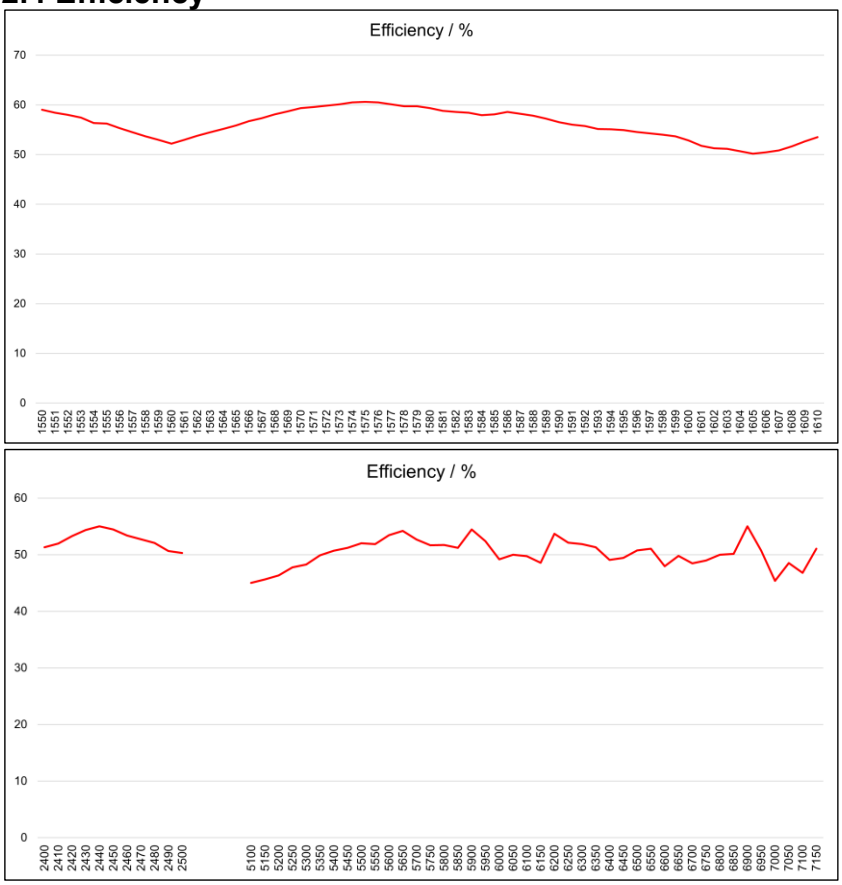


2.3 Return Loss

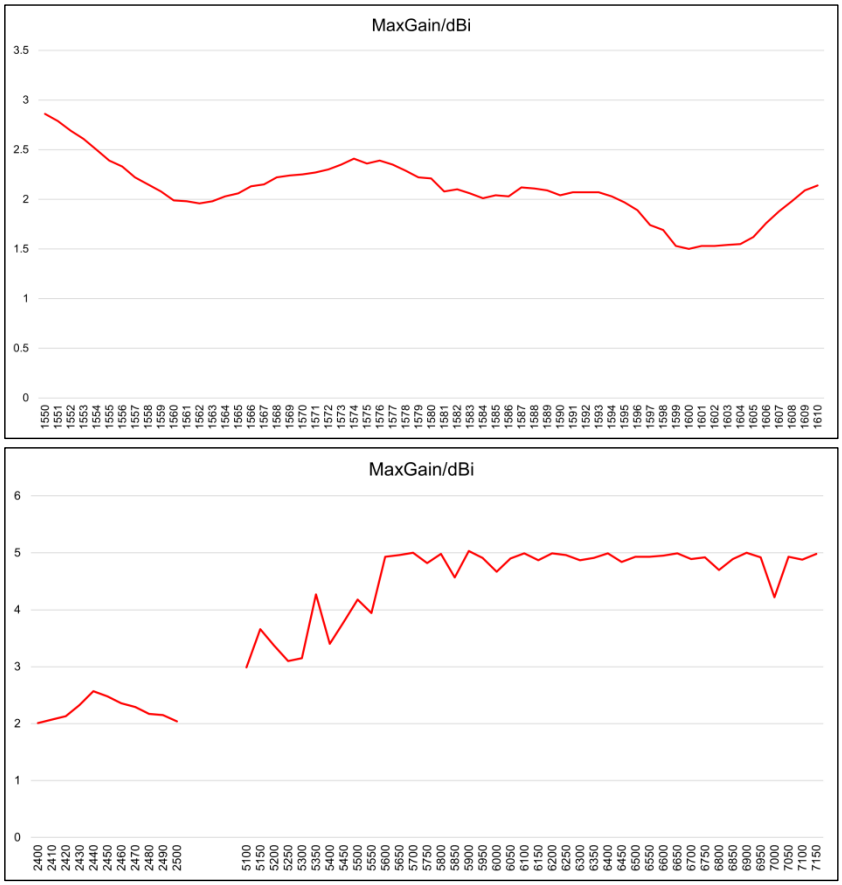




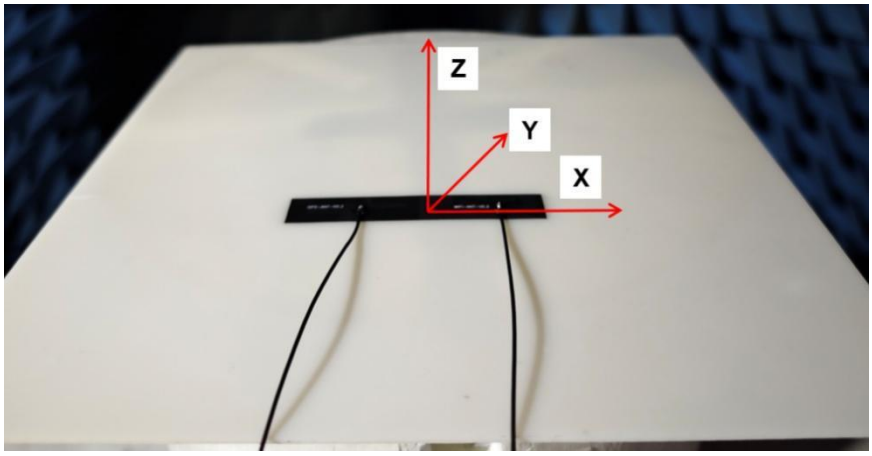
2.4 Efficiency

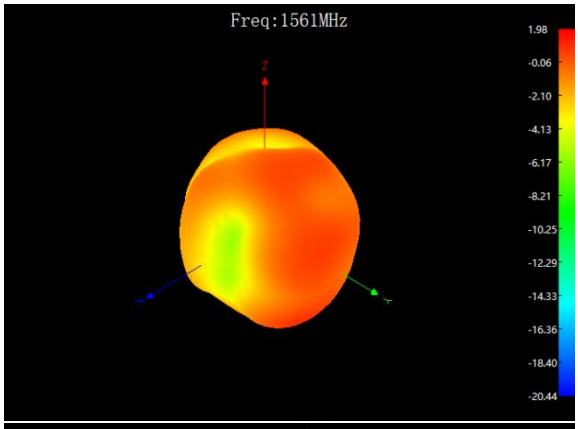


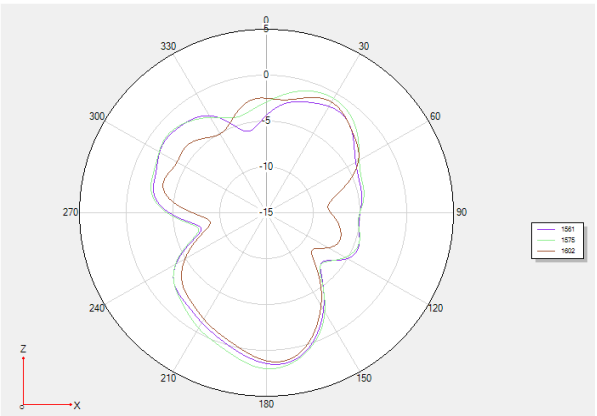
2.5 Gain

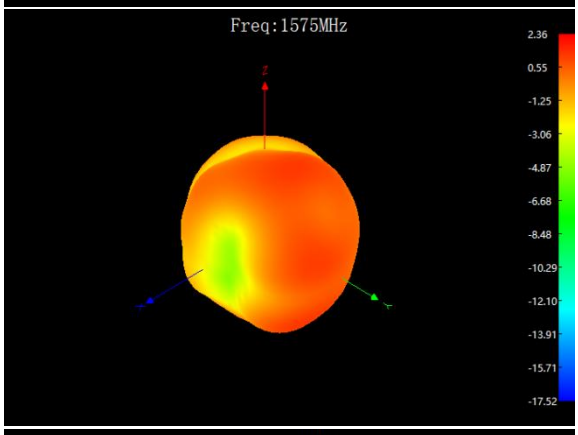


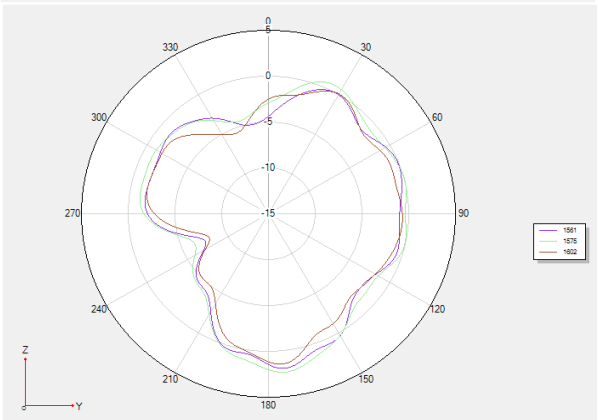
3. Radiation Patterns

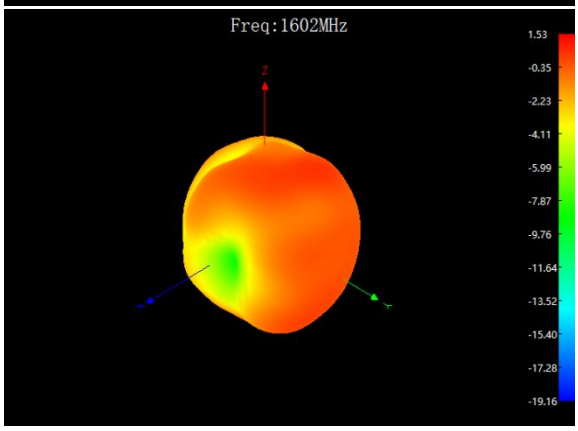


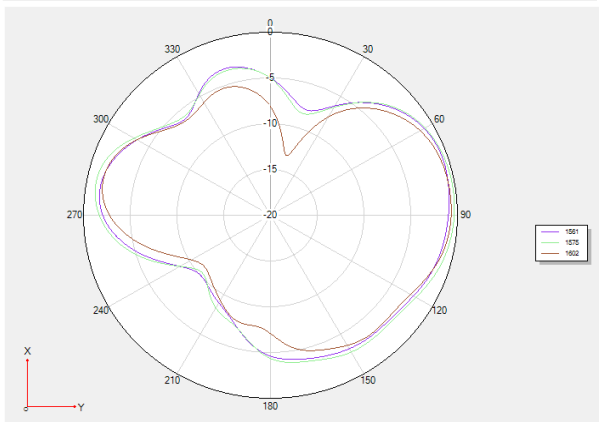


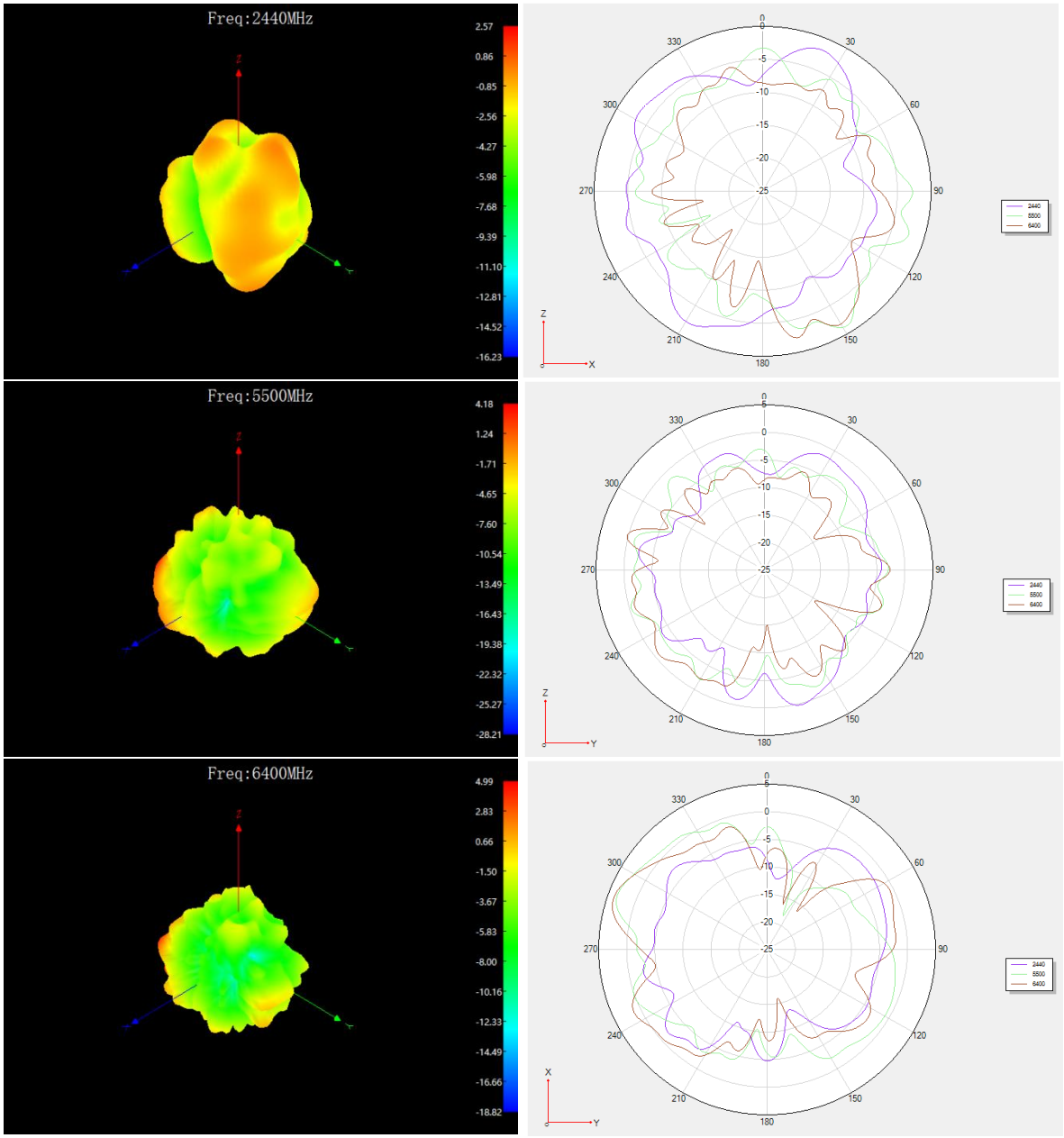






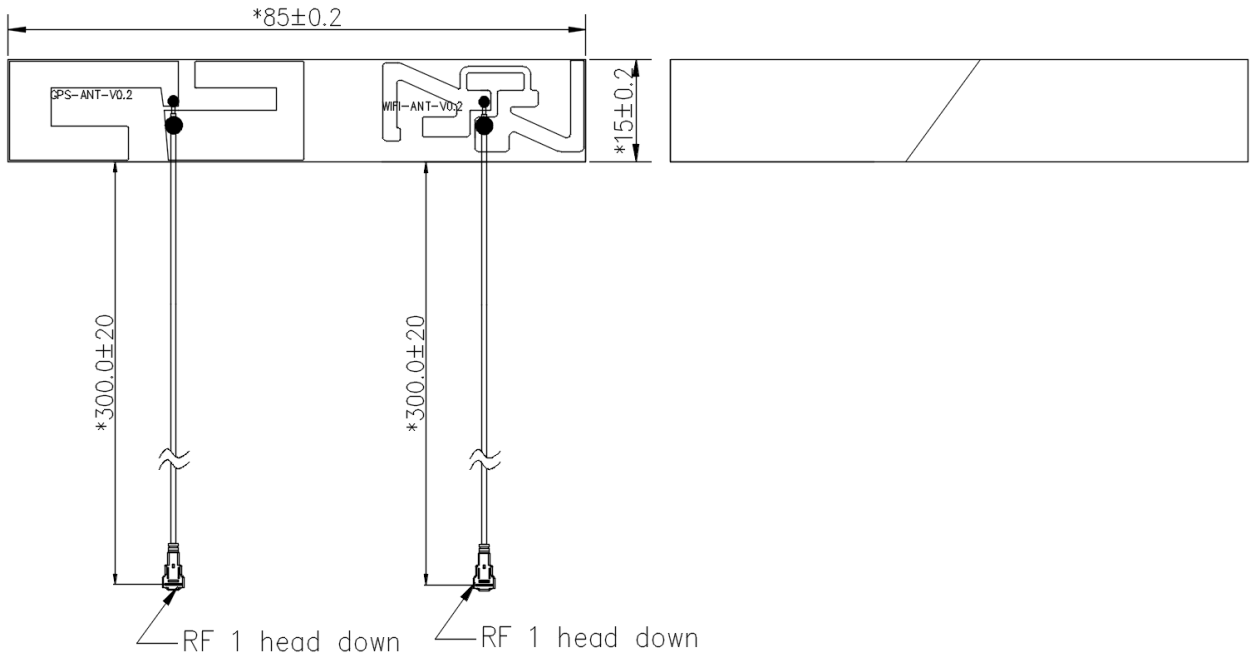





Freq:2440MHz
2.57
0.86
-0.85
-2.56
-4.27
-5.98
-7.68
-9.39
-11.10
-12.81
-14.52
-16.23
Freq:5500MHz
4.18
1.24
-1.71
-4.65
-7.60
-10.54
-13.49
-16.43
-19.38
-22.32
-25.27
-28.21
Freq:6400MHz
4.99
2.83
0.66
-1.50
-3.67
-5.83
-8.00
-10.16
-12.33
-14.49
-16.66
-18.82
0
30
60
90
120
150
180
210
240
270
300
330
-5
-10
-15
-20
-25
2440
5500
6400
Z
X
Y

4. Antenna Drawing

Unit: mm



Changelog for the datasheet			
Revision	Date	Author:	Notes:
V0	2026-04-20	Kevin LV	Initial Datasheet Release