

Product Specification Recognition Letter

Dongguan Research and Development Center

customer name: Zhencheng Technology
product name: M60

Material Code:

Contracting Party		Date: July 02,2026
Fabrication	Quality	Research and development

Client Side		Date: Year Month Day
Conclusion	Quality	Research and development

Address: No.5, Xifang 11th Lane, Daning Community, Humen Town, Dongguan City, Guangdong Province

Phone: 13688915916

1. Purpose

Standardize the specifications and testing methods for mobile communication terminal antennas manufactured by Dongguan Weichen Communication Technology Co., Ltd. to prevent errors caused by variations in testing conditions or methodologies.

2. Product Category and Model Overview

2.1 Class

The WIFI antenna of this mobile communication terminal is: Single-pole antenna;

2.2 Product Model Overview

This report primarily outlines the electrical results of the antenna designed for the **S10** project.

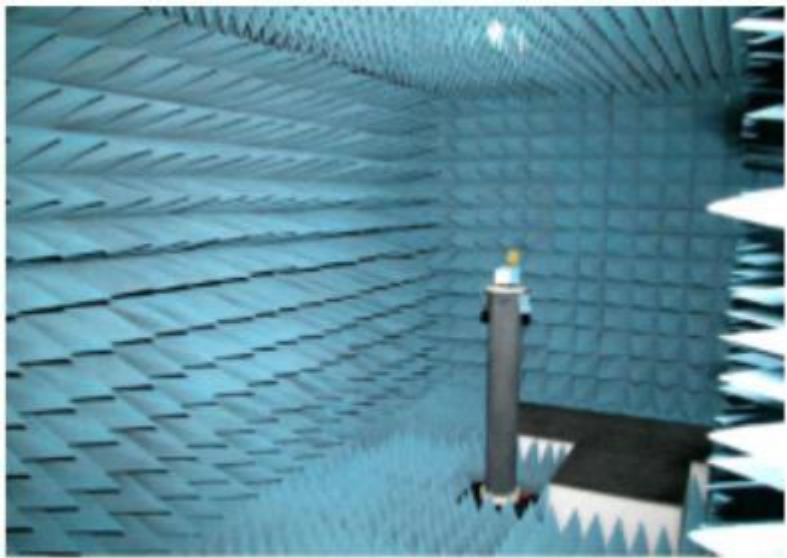
This antenna design operates at the following frequency band: 2400 MHz–2500 MHz frequency band.

3. Technical Specifications and Equipment

3.1 qualification

Product Electrical Performance Specifications	
Working Frequency Range	2400-2500MHz
Standing Wave Ratio	2400-2500MHz<3.0
Antenna gain	2400-2500MHz:-1.5dBi
Radiation efficiency	2400-2500MHz> 30%
Impedance	50 ohm
Product Material Description	
Lead	0.8×35 mm single-ended soldered wire with tin coating
Product Environment Description	
Working temperature	- 30℃ ~ + 85 ℃
Storage Temperature	- 30℃ ~ + 85 ℃

3.2 instrumentation



ETS Chamber
天线测试暗室
L x W x H = 8x4x4M



R&S CMW500



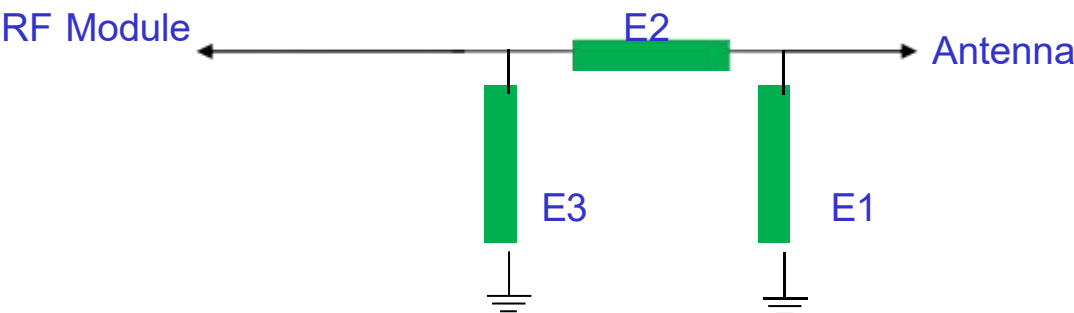
Agilent E5071B



Agilent 8960

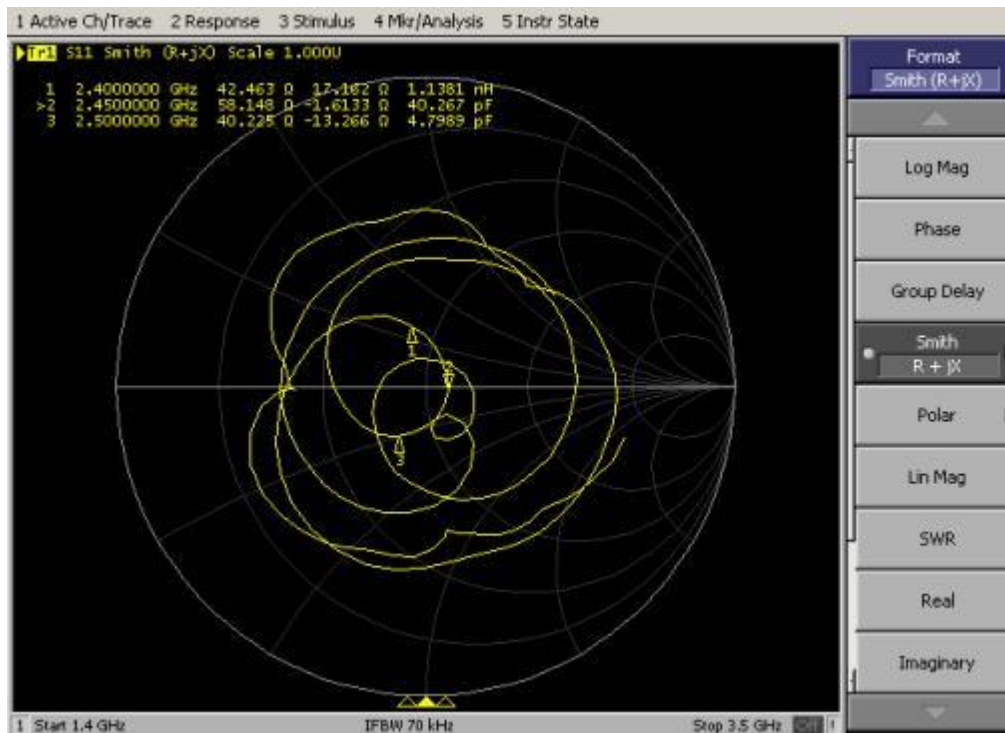
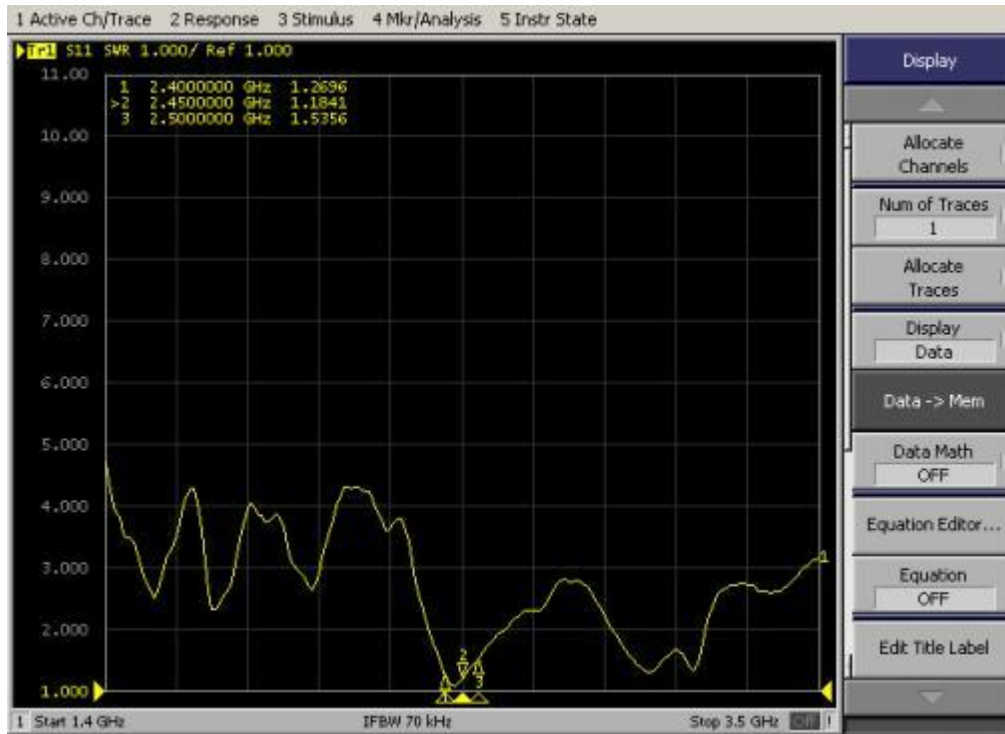
4. Matching Circuit Description:

Our company has not made any modifications to the original matching circuit of the WIFI antenna.



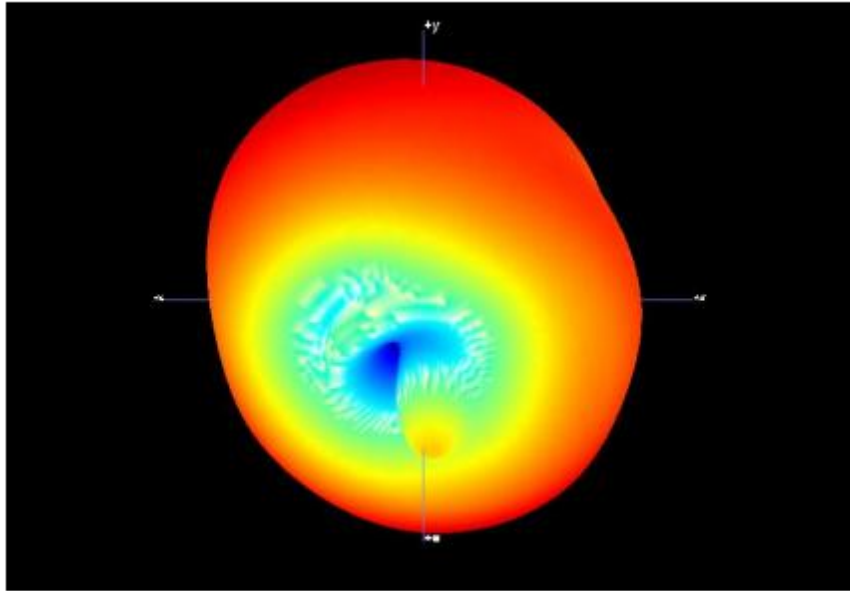
Element	Value	Vender
E1(0201)		
E2(0201)		
E3(0201)		

5. Passive Column Waveform & Smith Diagram:

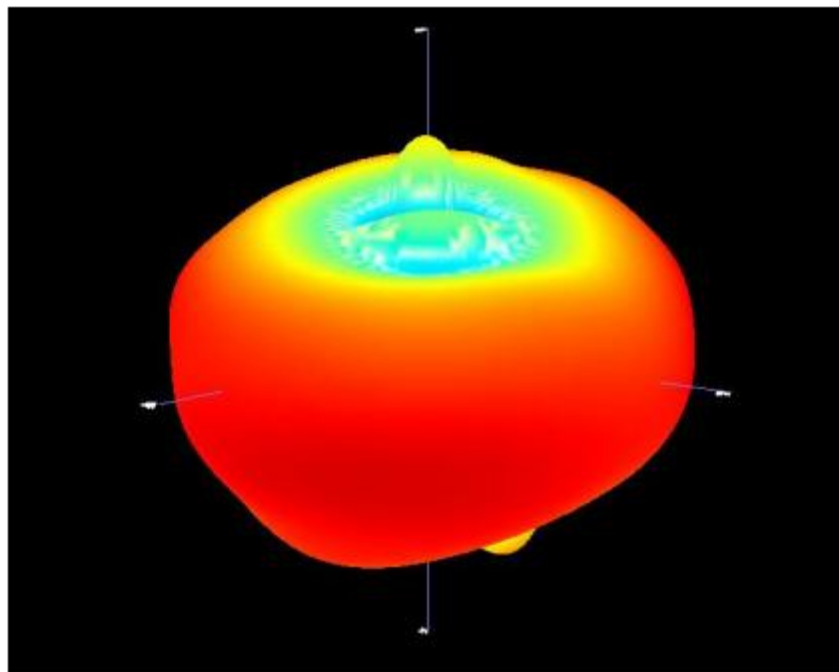


3D Pattern

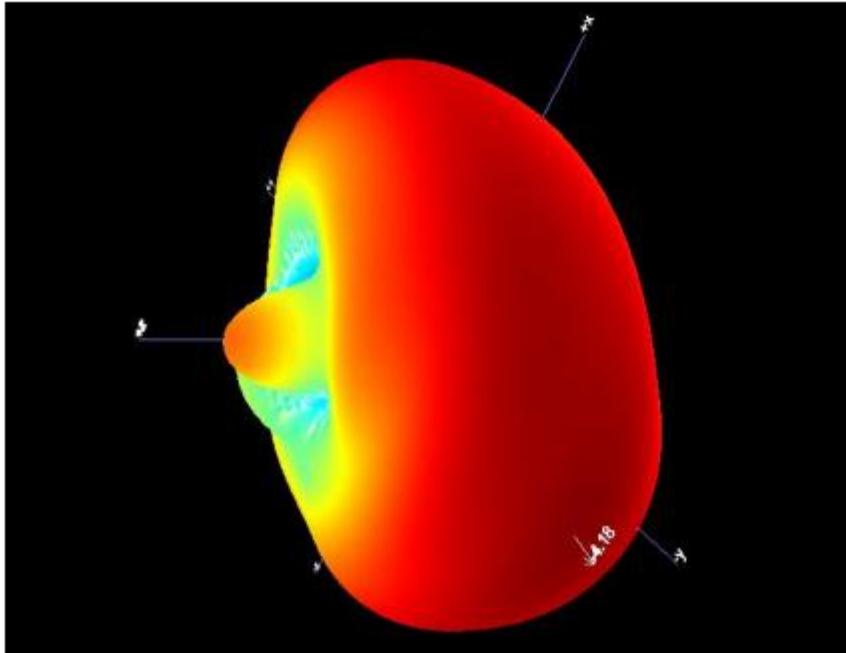
B1.1 3D Pattern for 2400MHz



B1.2 3D Pattern for 2450MHz

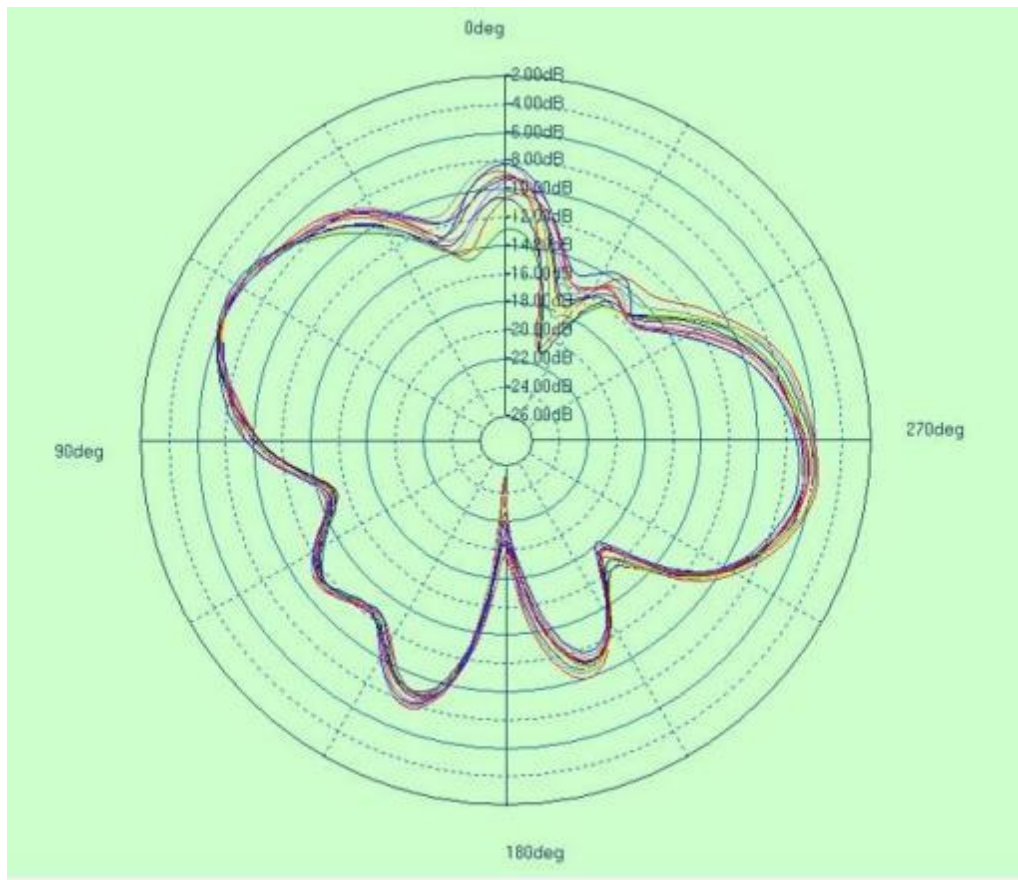


B1 .3 3D Pattern for 2500MHz

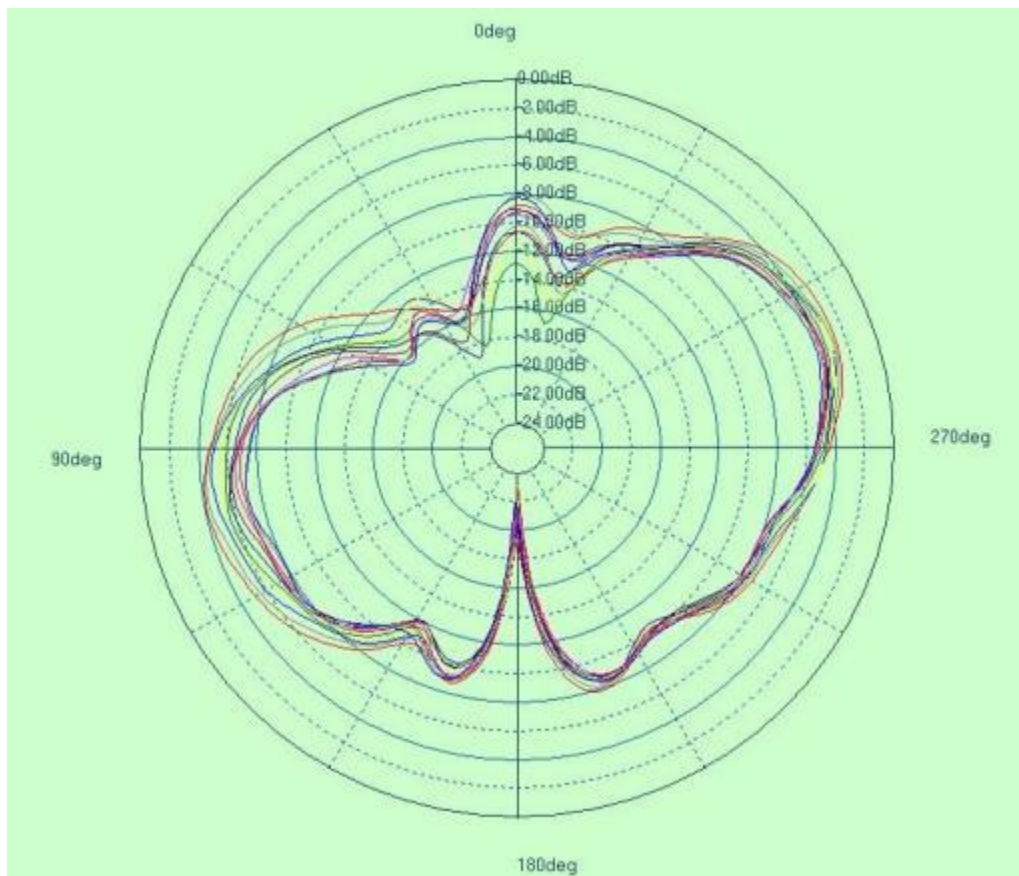


1D Radiation Pattern

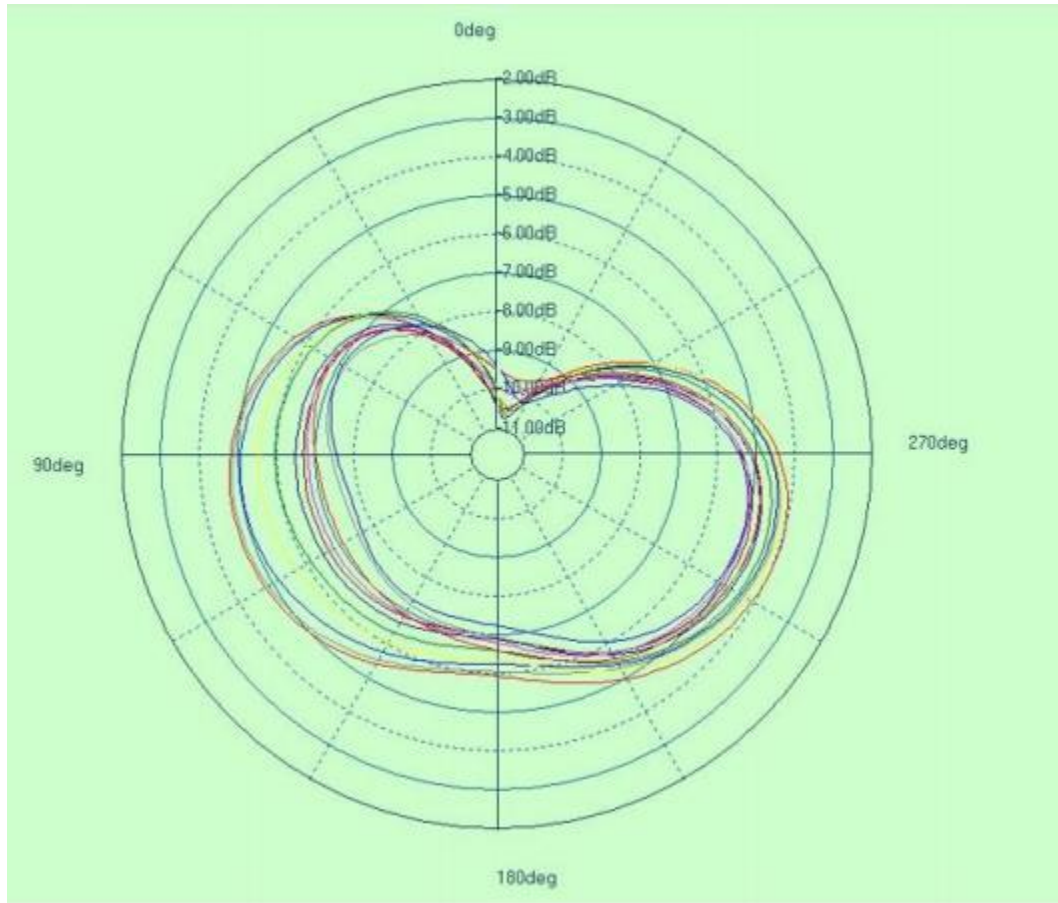
PHI=0



PHI=90

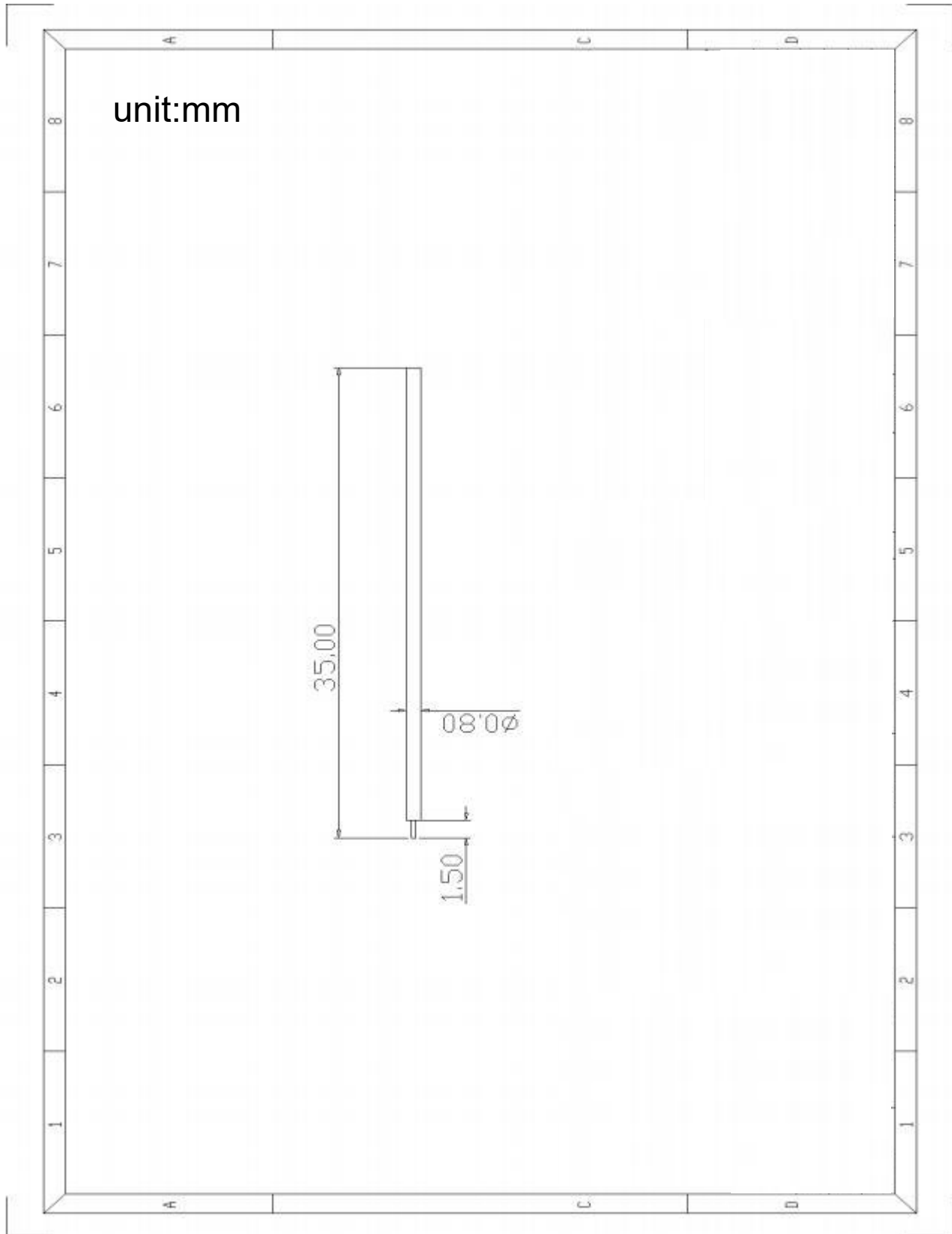


THETA=90



Frequency(MHz)	Gain (dBi)	Efficiency (%)
2400	-1.50	18
2410	-2.92	17
2420	-3.07	17
2430	-3.09	16
2440	-3.48	15
2450	-3.73	15
2460	-3.77	14
2470	-3.81	14
2480	-3.69	14
2490	-3.93	14
2500	-4.18	14

6. Product Structure Diagram:



Antenna type: Built-in Antenna

8. Packaging Method: Bagged