

Acceptance of product specifications

Mobile communication terminal antenna

Client Name: DUMBO

Product Name: 2.4G brass antenna

Material code :

1. Purpose

To standardize the specifications and test methods of mobile communication terminal antennas produced by SHENZHEN DEWEIMA COMMUNICATION EQUIPMENT CO., LTD to avoid errors caused by different test conditions and methods.

2. Product Category and Product Mode Description

2.1 Category

The mobile communication terminal antenna is Integral antenna

2.2 Product Mode Description

This report is mainly summarized that 2.4G antenna project is designed by antenna electrical result.

This antenna is designed for: 2400~2500MHz frequency band.

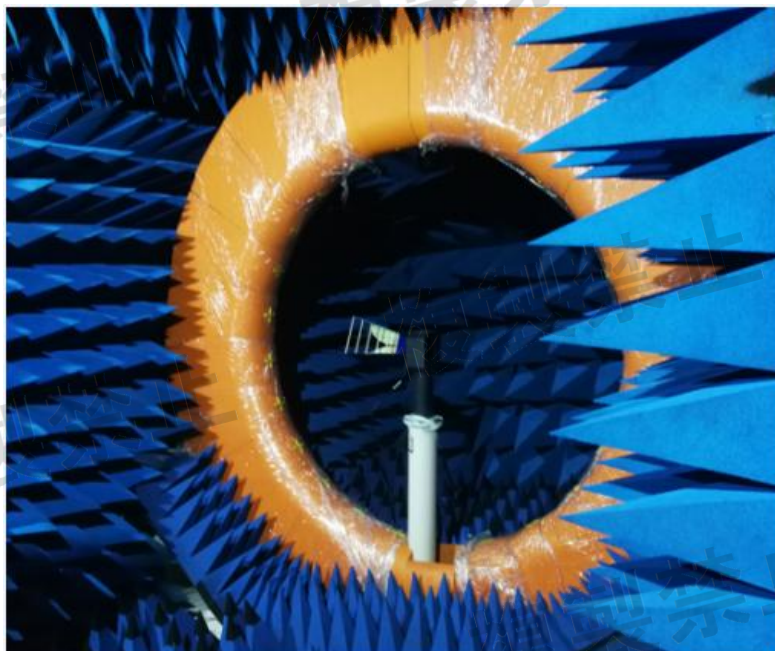
3. Technical Indicators And Instrument Equipment

3.1 Technique Data

Electrical Performance Parameters For Product	
Operating Frequency Range	2400~2500MHz
VSWR	2400~2500MHz < 2.0

Antenna gain	2400~2500MHz :2.0dBi
Radiant efficiency	2400~2500MHz>60%
Impedance	50 ohm
Product Material Description	
Coaxial line + Copper pipe	
Product Environment Description	
Operation Temperature	- 30℃ ~ + 85 ℃
Storage Temperature	- 30℃ ~ + 85 ℃

3.2 Instrument Equipment



24-probe microwave chamber



R&S CMW500



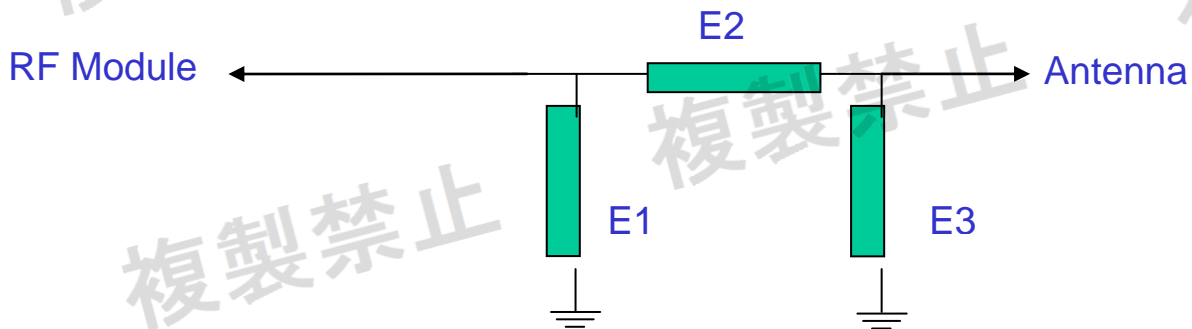
Agilent E4405B 频谱仪



Agilent Technologies E5071B

4. Description of matching circuit:

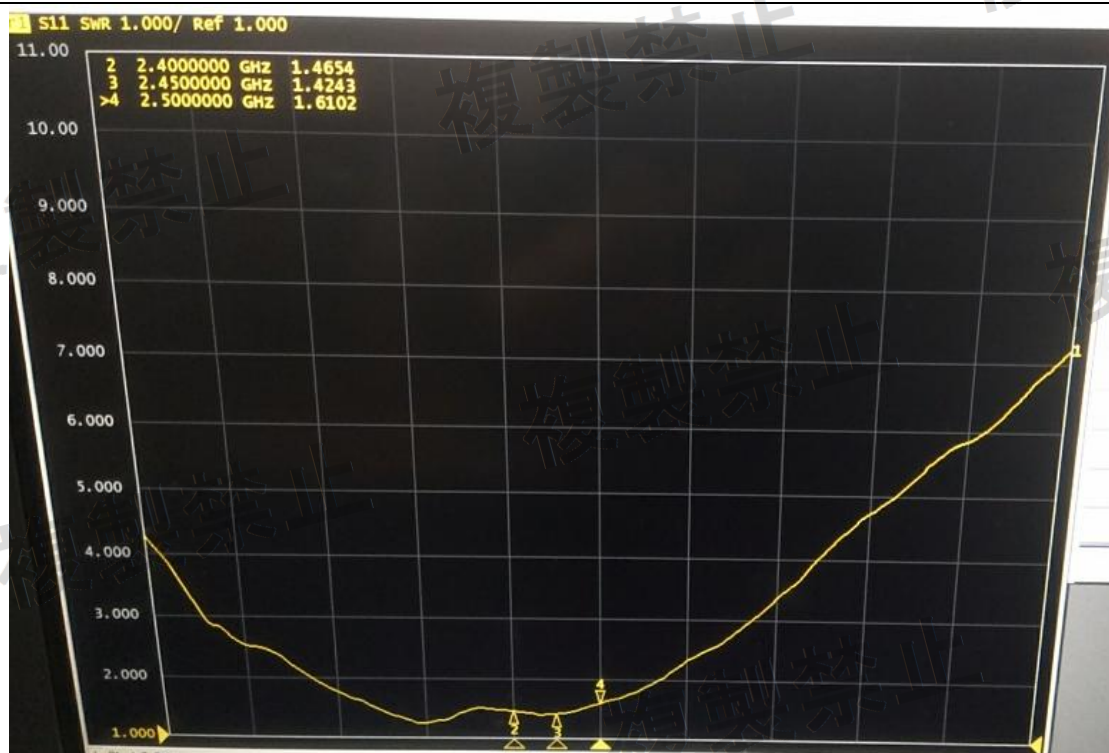
Our company has not modified the matching circuit of the antenna



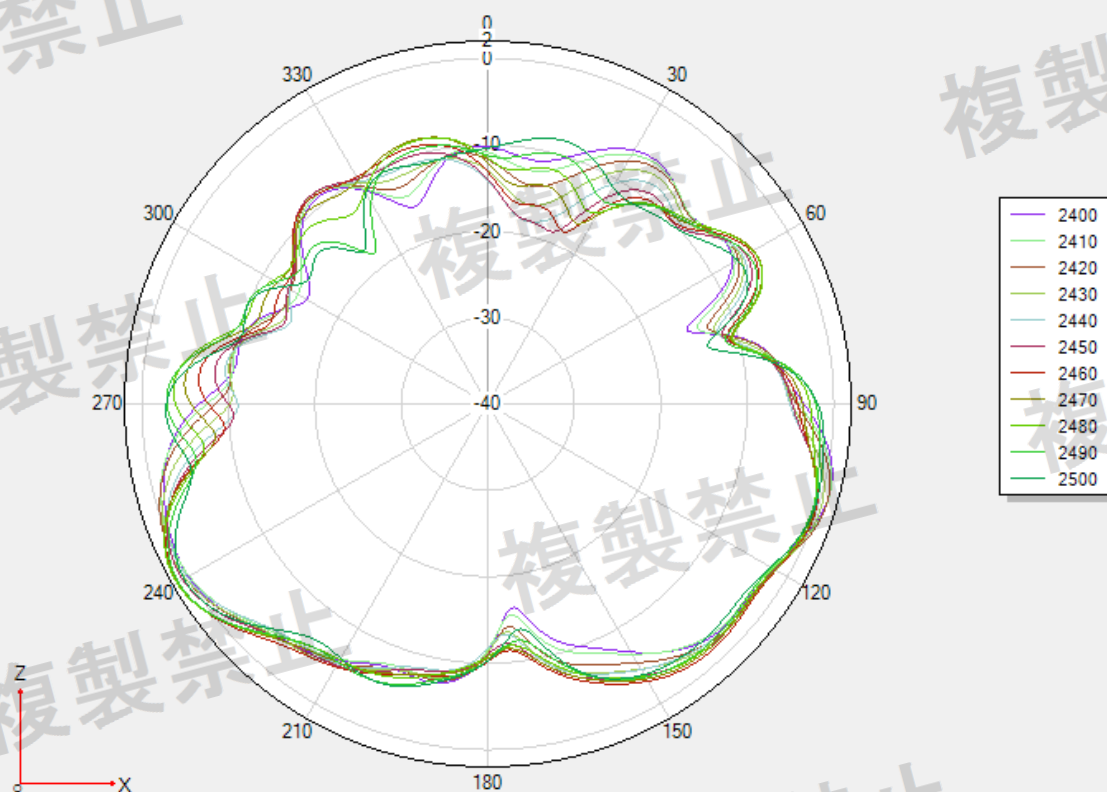
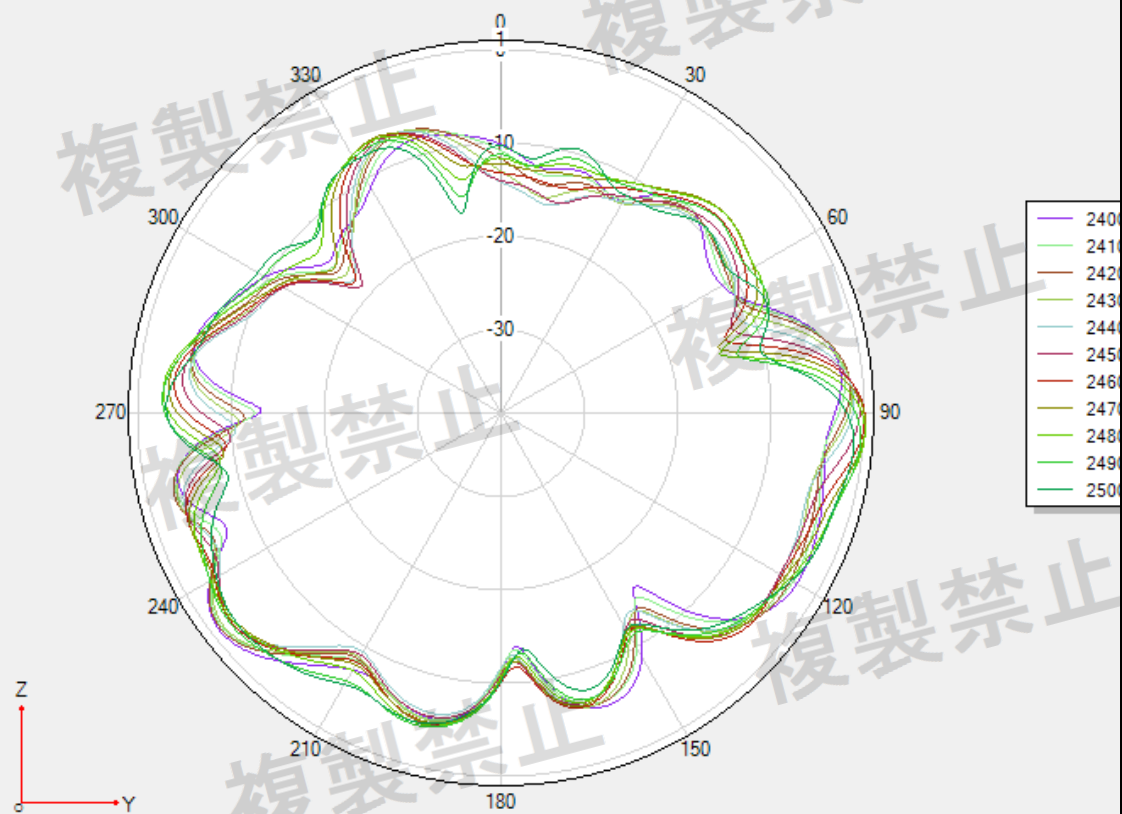
Element	Value	Vender
E1(0402)		
E2(0402)		
E3(0402)		

5. Electrical performance parameters of antenna (VSWR, Gain, Efficiency, directional diagram)

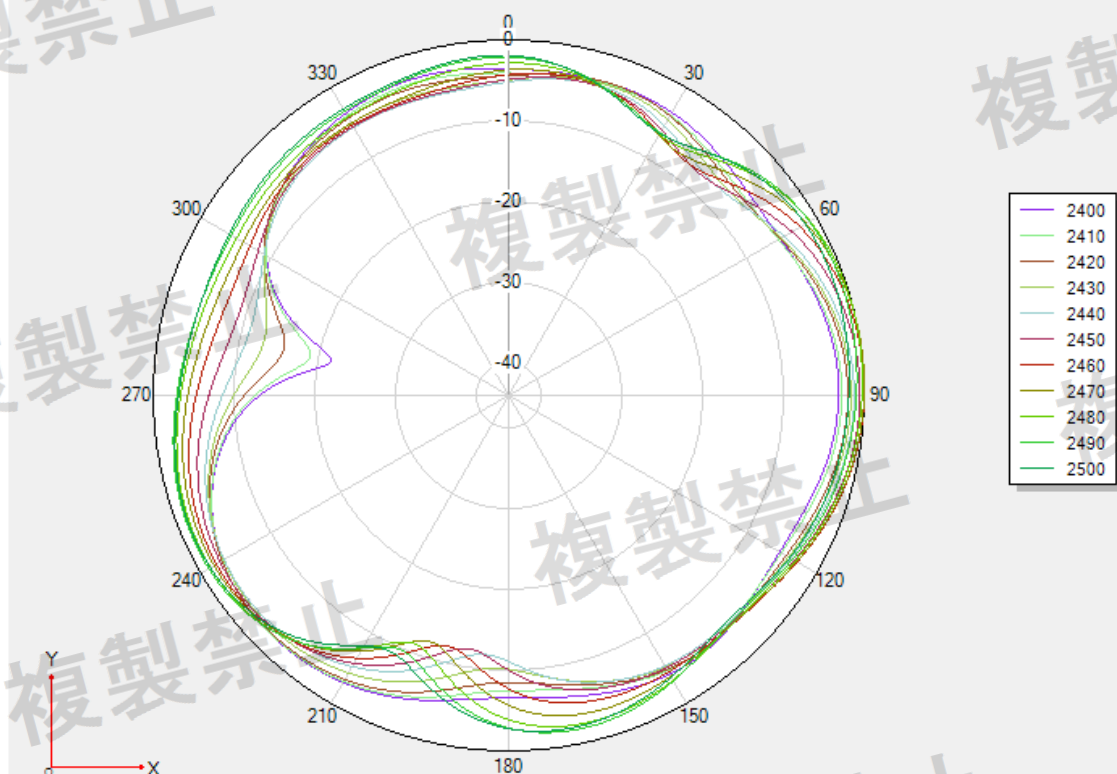
VSWR

Efficiency
and Gain

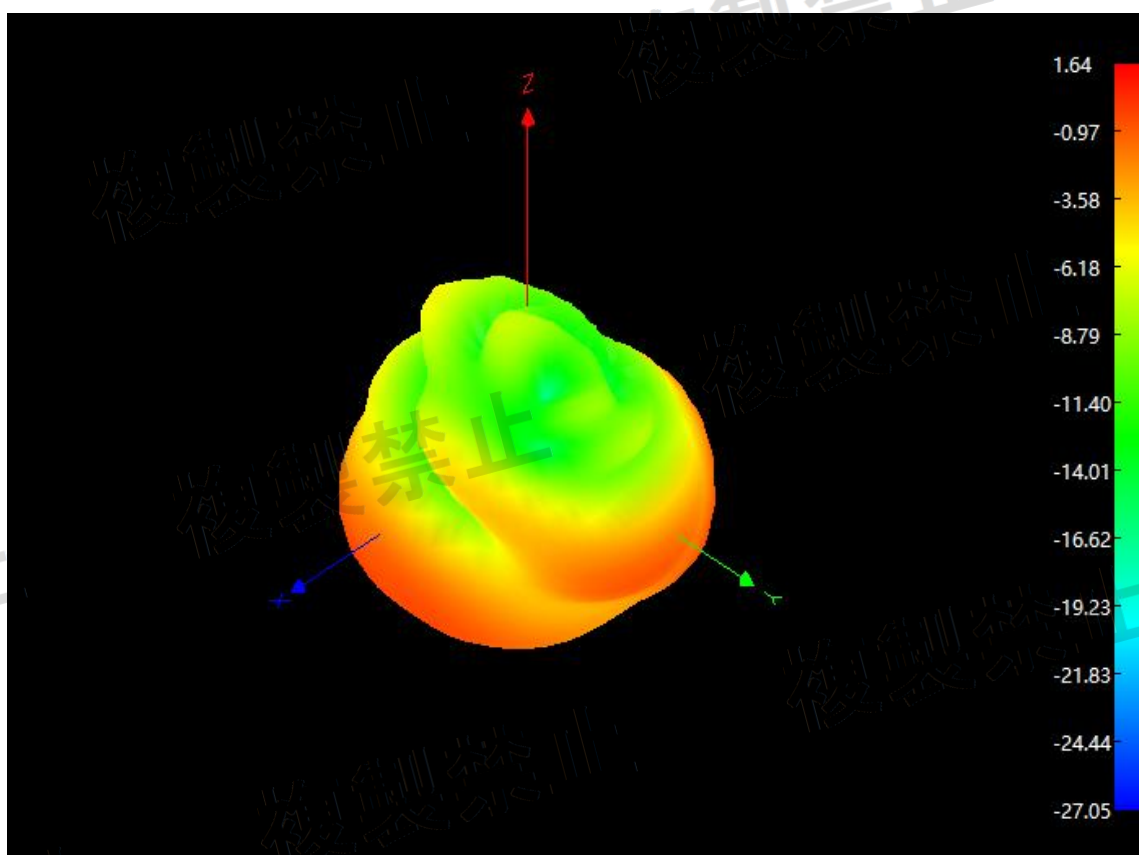
Frequency / MHz	Gain/ dBi	Frequency / MHz	Efficiency / dB	Efficiency / %
2400	1.73	2400	-2.09	61.8
2410	2	2410	-1.98	63.39
2420	1.98	2420	-1.76	66.68
2430	1.56	2430	-1.98	63.39
2440	1.69	2440	-2.09	61.8
2450	1.62	2450	-1.87	65.01
2460	1.76	2460	-1.74	66.99
2470	1.52	2470	-1.86	65.16
2480	1.58	2480	-1.79	66.22
2490	1.67	2490	-1.65	68.39
2500	1.59	2500	-1.72	67.3

E1
directional
diagramE2
directional
diagram

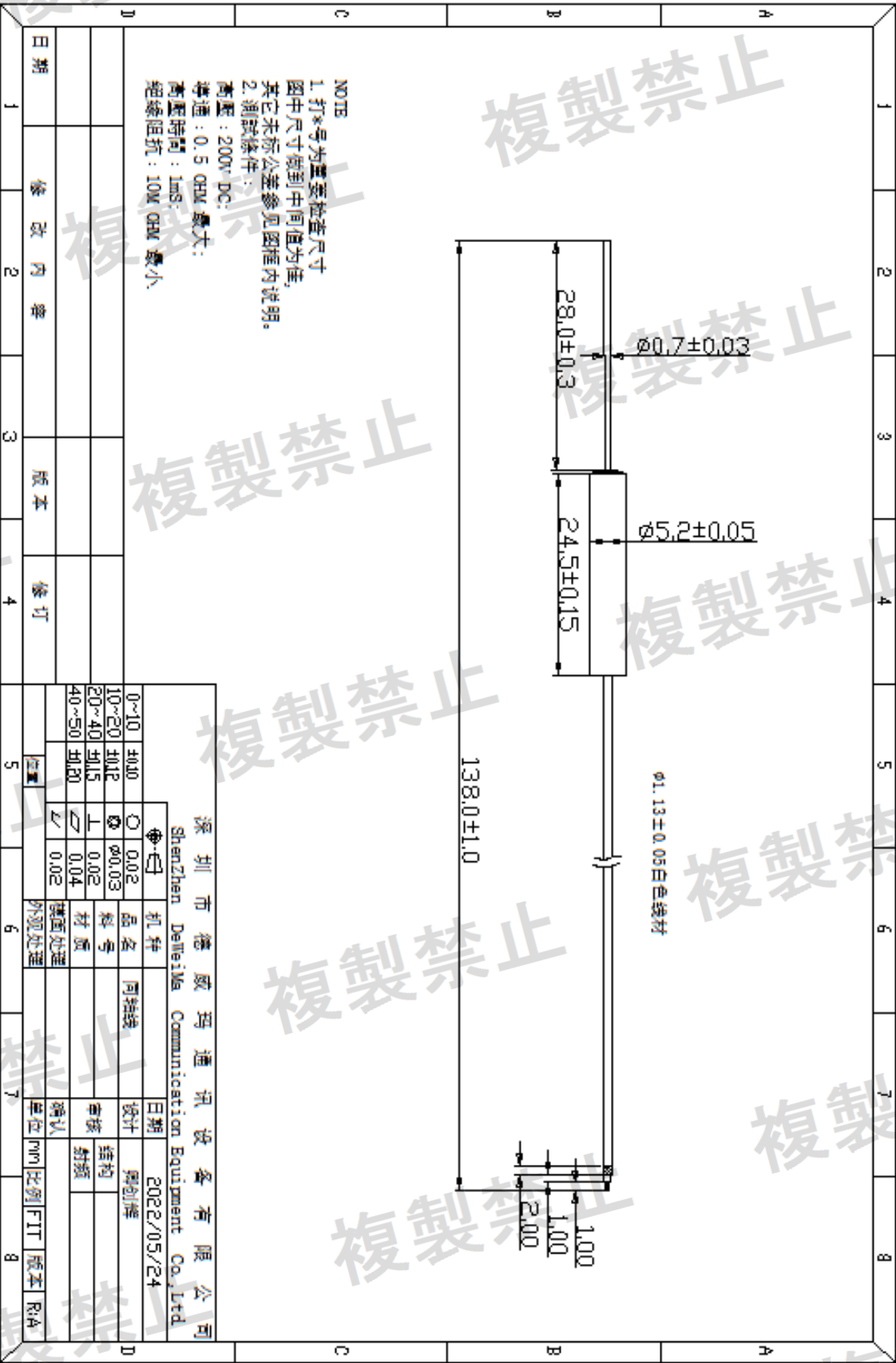
E3
directional
diagram



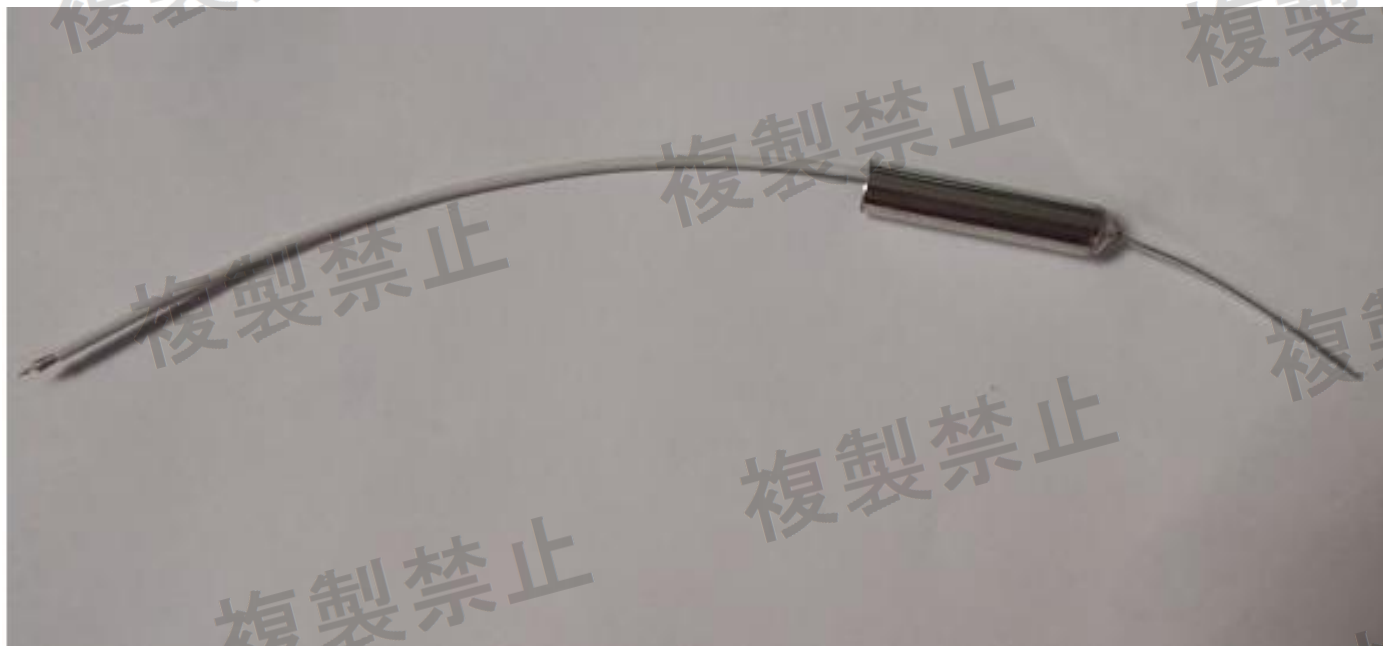
3D
Pattern



5. Product Structure:



6. Real product photo:



7. Packing Way:

Bags shipped