

Antenna Specification

深圳市德威玛通讯设备有限公司

1. Purpose

To standardize the product specifications and testing methods of mobile communication terminal antenna produced by Shenzhen Devima Communication Equipment Co., Ltd. to avoid errors caused by different testing conditions and methods.

2. Product category and product model overview

2.1 Categories

This mobile communication terminal antenna is Monopole antenna

2.2 Product model overview

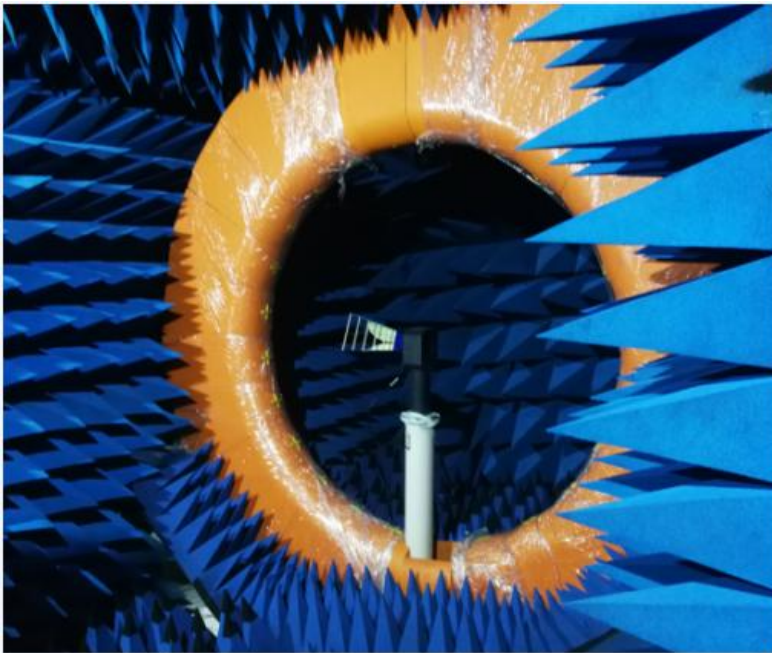
This report mainly Outlines the electrical results of the antennas designed by the 2.4G antenna project. The designed frequency band of this antenna is 2400~2500MHz.

3. Technical specification and instruments

3.1 Technical specification

Product electrical performance index	
Operating frequency range	2400~2500MHz
VSWR	2400~2500MHz < 2.0
Antenna Gain	2400~2500MHz :4.5dBi
radiation efficiency	2400~2500MHz>55%
impedance	50 ohm
Product material description	
Copper tube + coaxial line + one generation terminal	
Product environment description	
Operating temperature	- 30°C ~ + 85 °C
Storage temperature	- 30°C ~ + 85 °C

3.2 Instrument equipment



24-probe microwave chamber



R&S CMW500



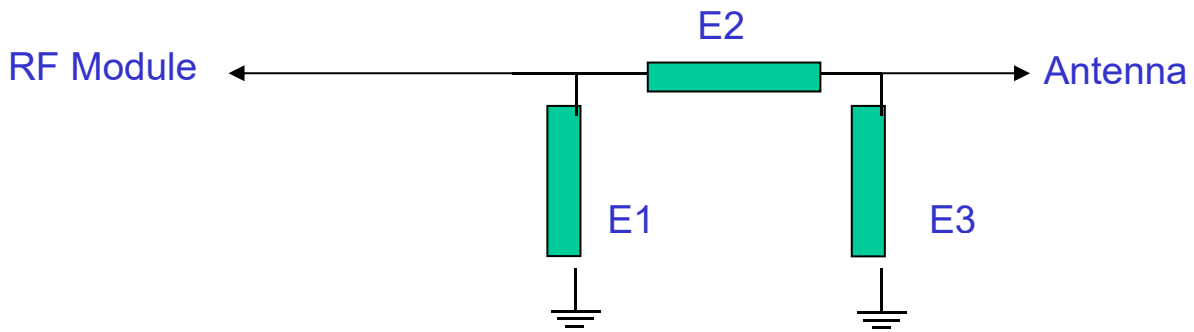
Agilent E4405B 频谱仪



Agilent Technologies E5071B

4. Matching circuit specification:

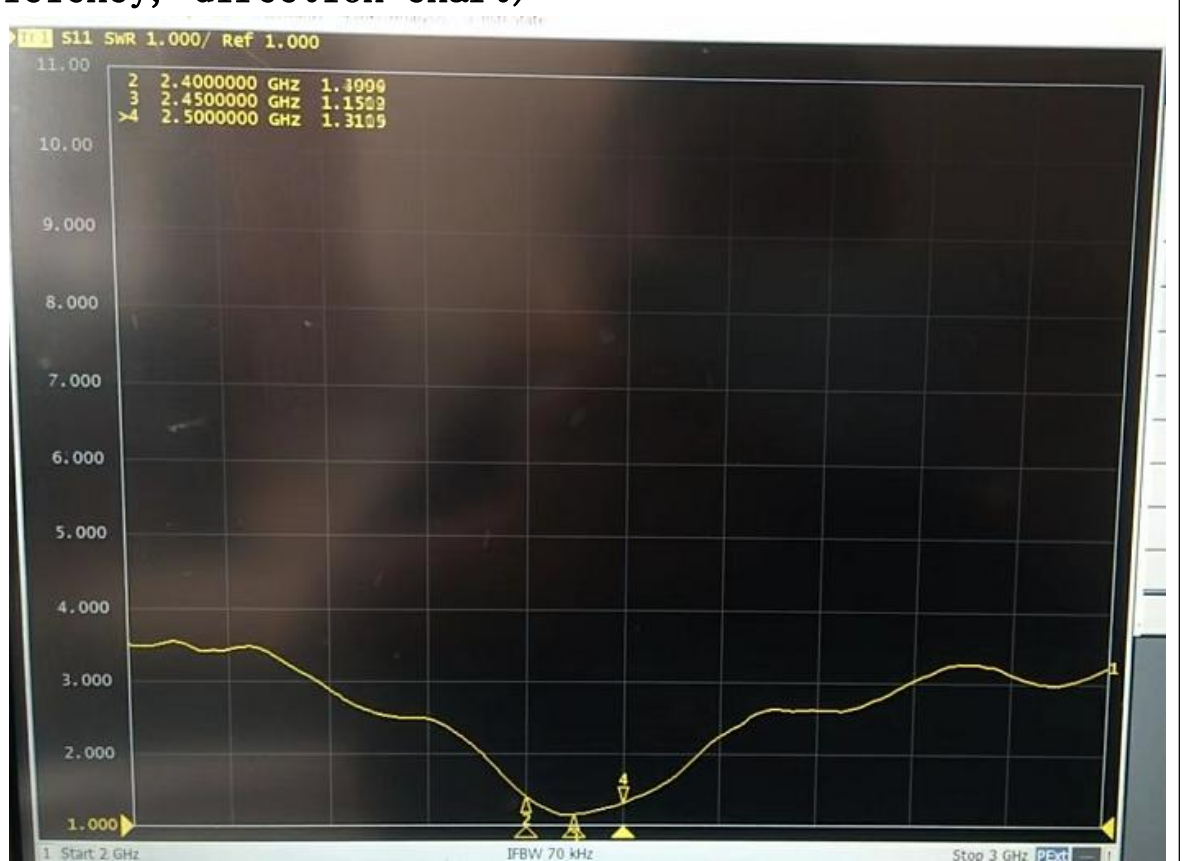
Our company has not modified the matching circuit of the antenna



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

5. Antenna electrical performance parameters (standing wave ratio, gain, efficiency, direction chart)

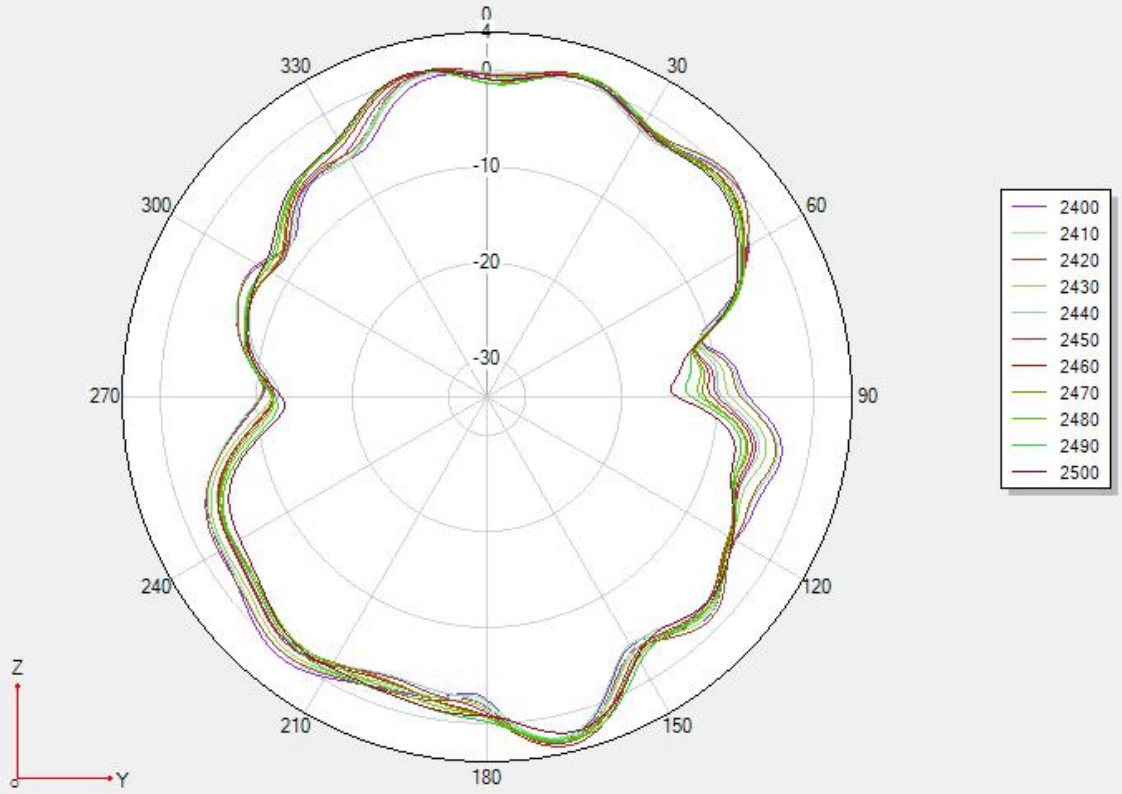
驻波比
(VSWR)



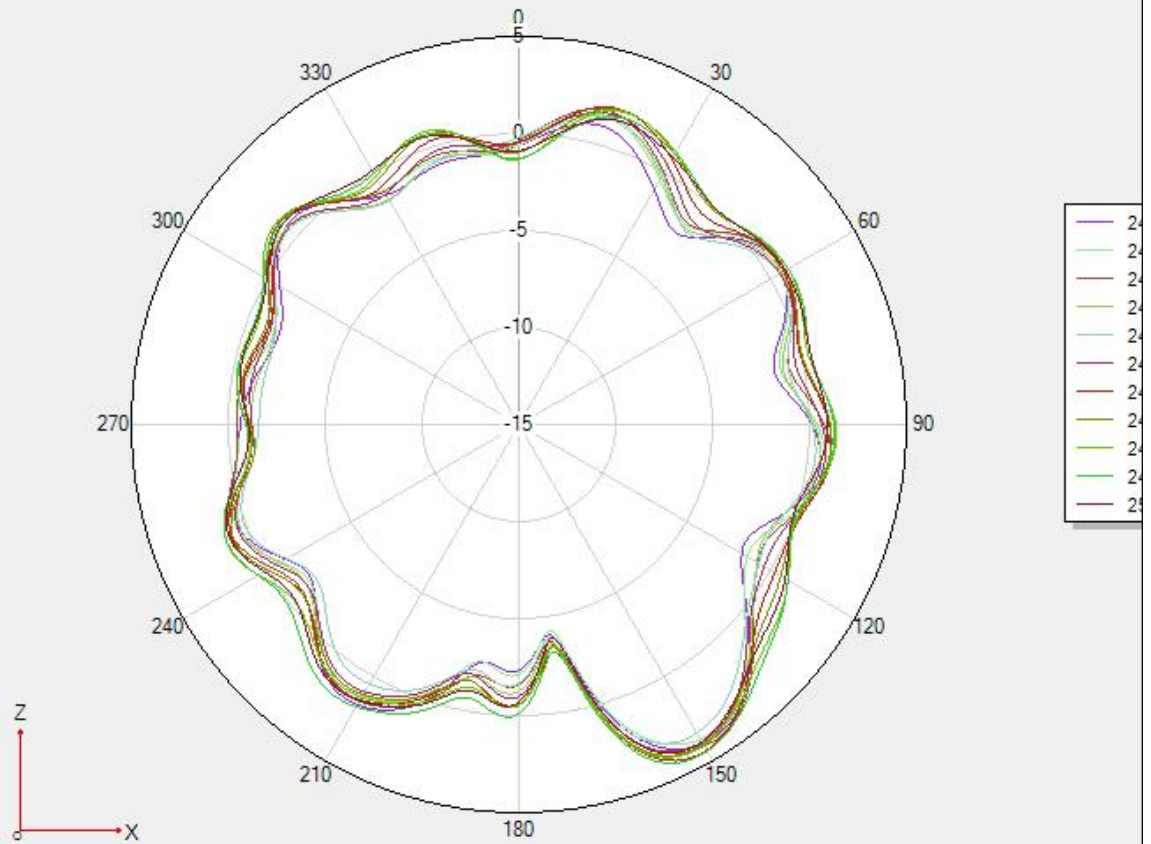
效率与增益
(Efficiency and Gain)

Frequency / MHz	Gain/ dBi	Frequency / MHz	Efficiency / dB	Efficiency / %
2400	4.02	2400	-2.49	56.36
2410	3.76	2410	-2.51	56.1
2420	4.14	2420	-2.28	59.16
2430	3.9	2430	-2.41	57.41
2440	3.37	2440	-2.48	56.49
2450	3.9	2450	-2.23	59.84
2460	4.41	2460	-2.01	62.95
2470	4.07	2470	-2.07	62.09
2480	4.14	2480	-1.99	63.24
2490	4.5	2490	-1.83	65.61
2500	3.94	2500	-1.98	63.39

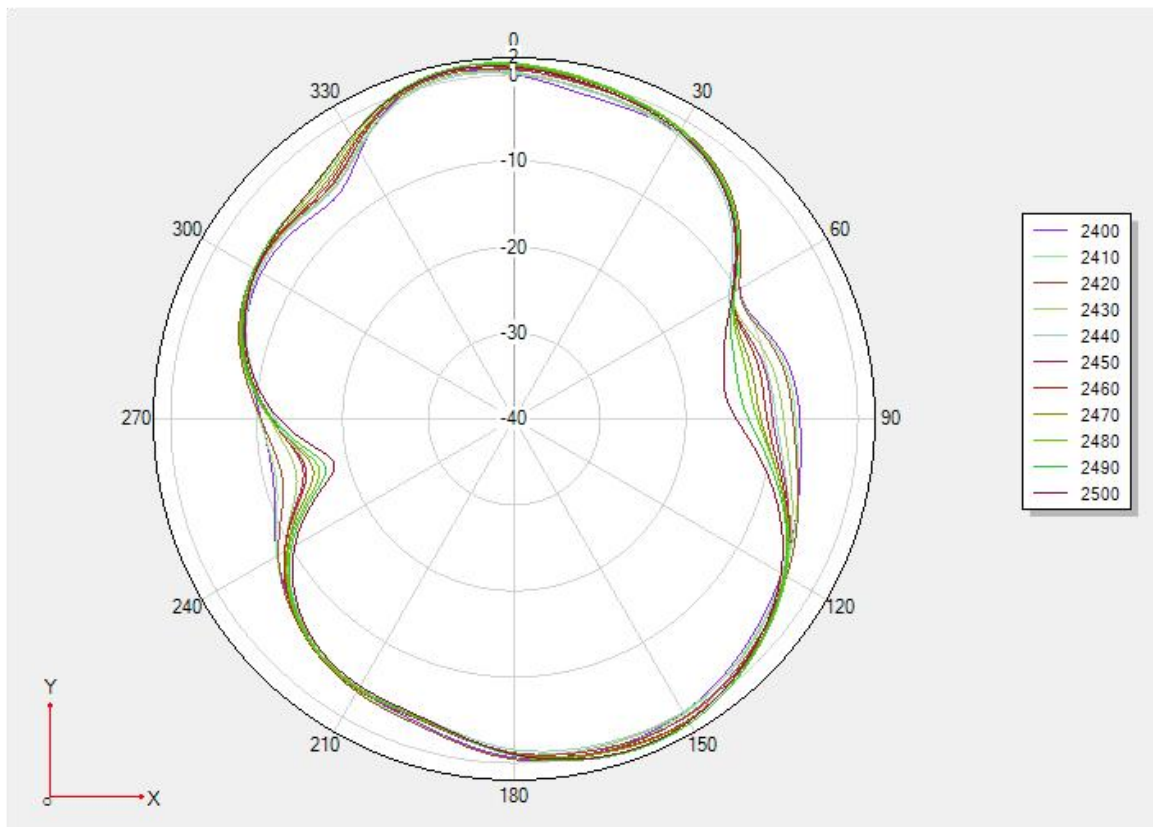
E1 Face pattern



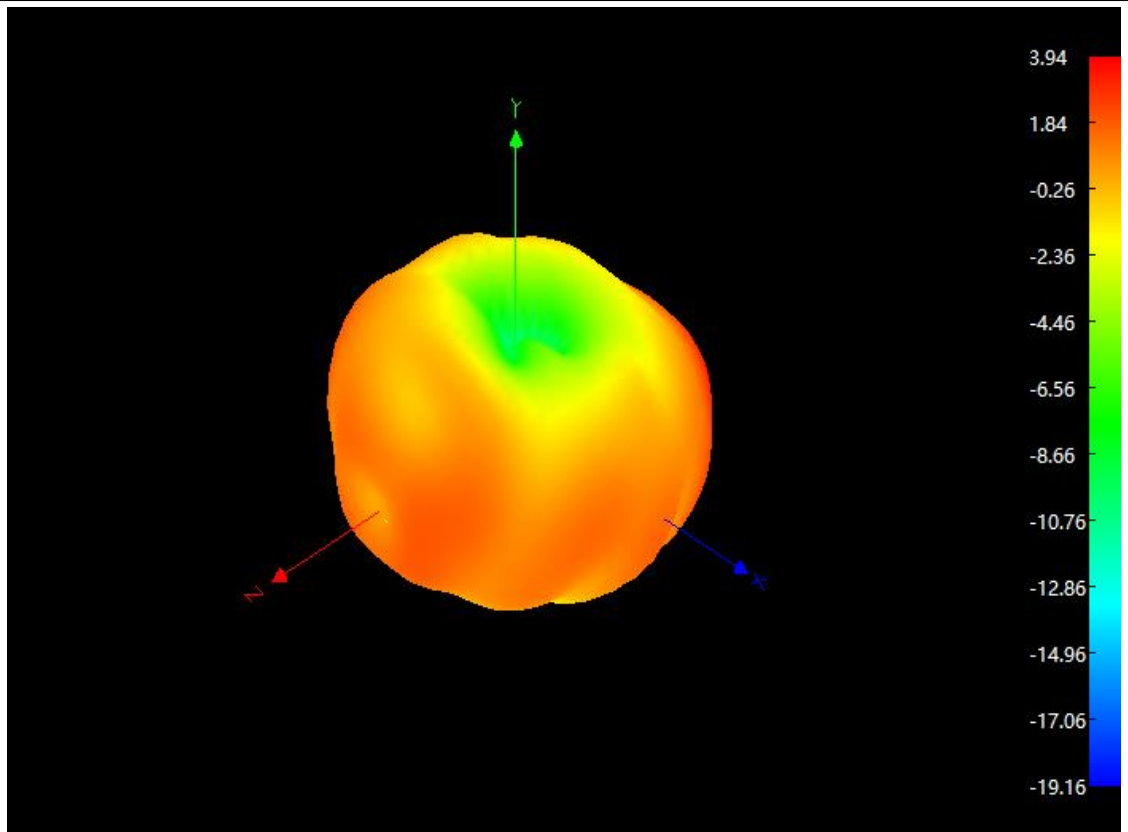
E2 Face pattern



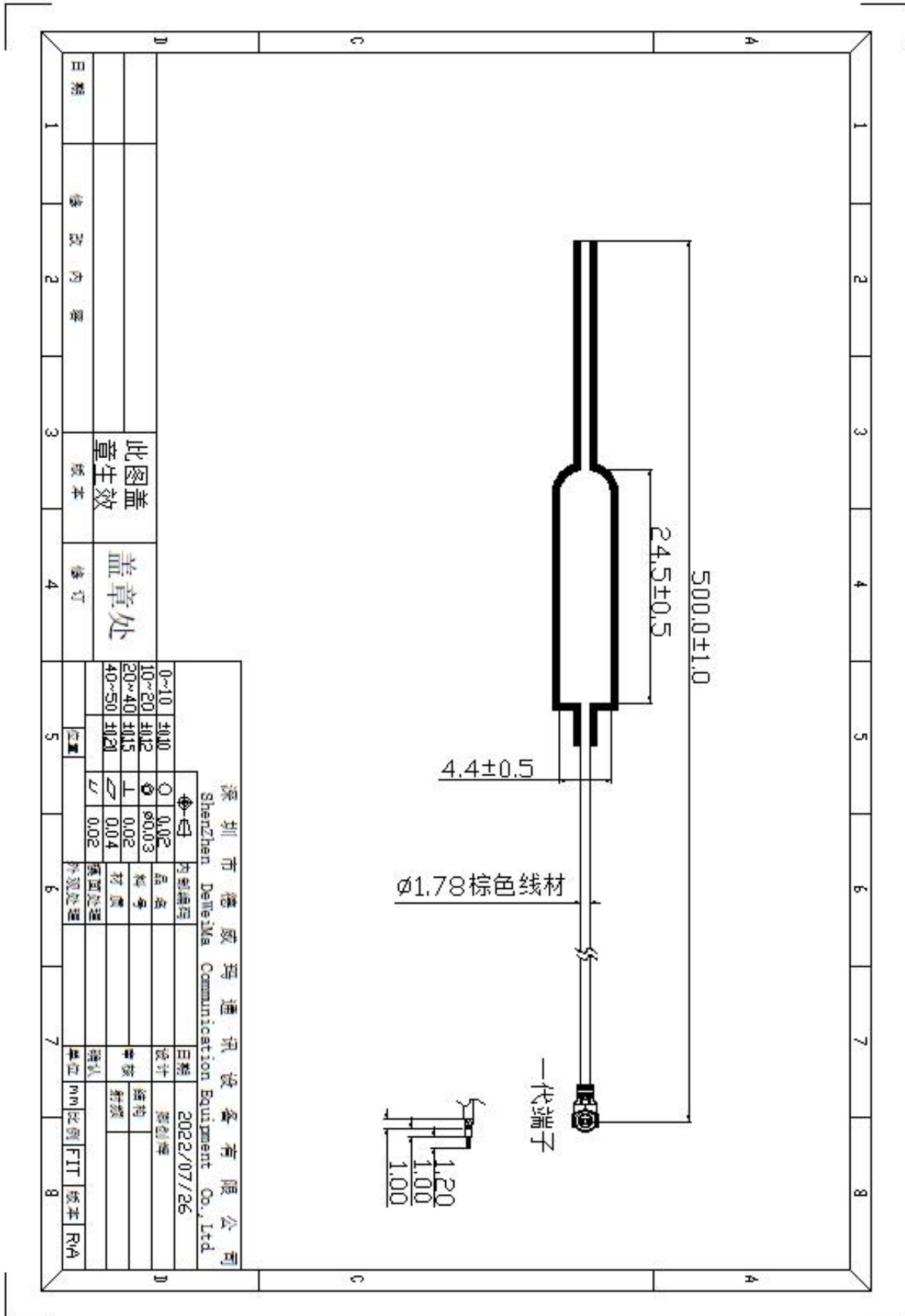
E3 Face pattern



3D 方向图
(3D Pattern)



5. Product structure drawing:



6. Product physical drawing:



7. Packing method:

Bagged shipment