

# Shenzhen Yunding Communication Electronics Co., LTD

TEL: +86 0755-23073599

FAX: +86 0755-23097189

E-mail:wht0809@163.com

## APPROVAL SHEET

CUSTOMER:

Thumb Antenna SMA Male-Plastic shells(27MM)  
(YD-TH-0011)

DESCRIPTION:

YD-C01-0309

PART NO.:

CUS PART NO.:

2025-6-4

D A T E:

Yunding signature

ENGINEERING DEPARTMENT	Q C DEPARTMENT	SALES DEPARTMENT

Customer signature

ENGINEERING DEPARTMENT	Q C DEPARTMENT	PURCHASING DEPARTMENT

TEL: 0755 23073599

✂ Approval in duplicate, please signed by your company.

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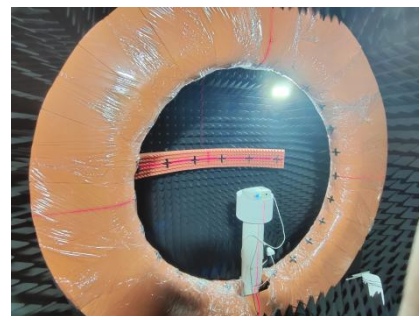
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## 1.Test items and equipment

	Test items	Equipment
1. S11-parameter	1. Return Loss 2. VSWR	network analyzer: Agilent E5071B HP 8753D
2.Active test	1. Transmitting power 2. Receiving sensitivity	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2.general-purpose tester : Agilent 8960 E5515B ×2 StarPoint SP6011 Cmw500
3.Passive test	1.Gain 2.Efficiency	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. network analyzer: Agilent E5071B HP 8753D



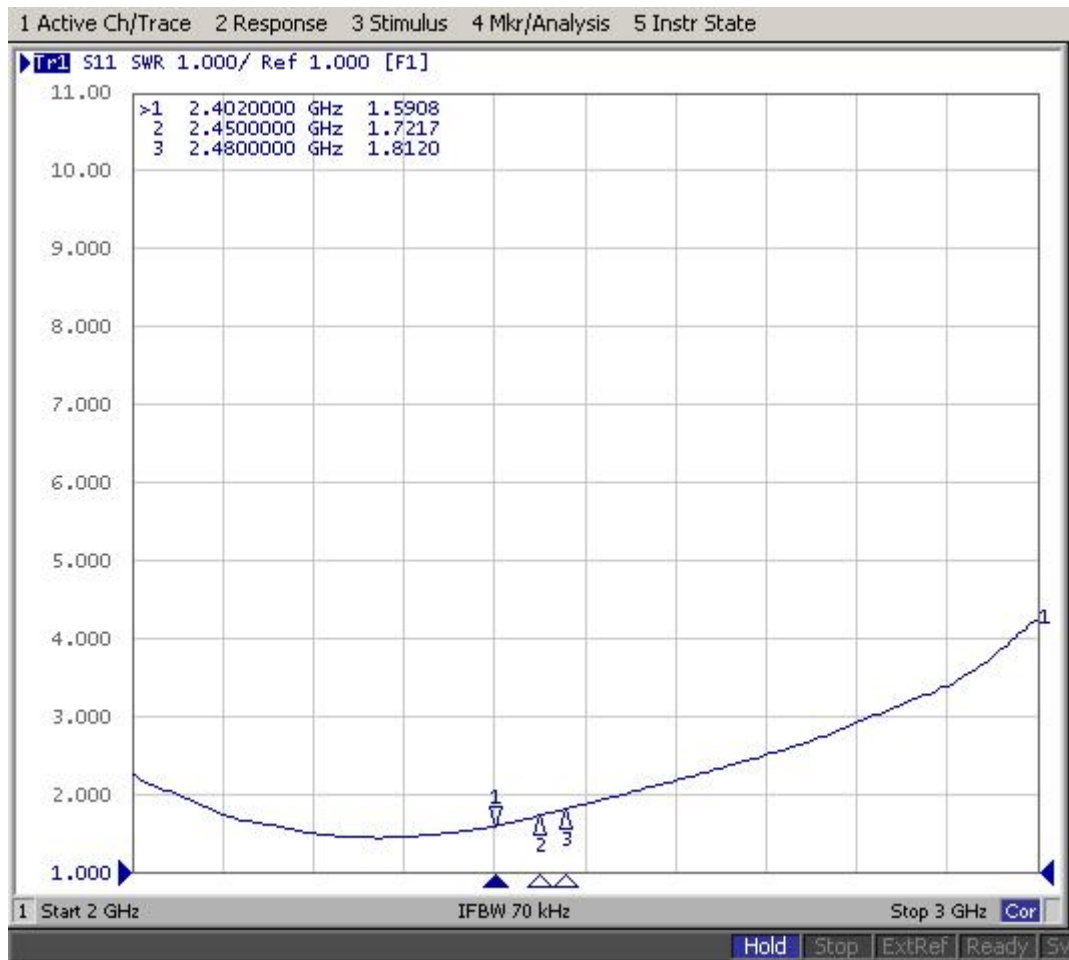
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## 2. Antenna performance SWR



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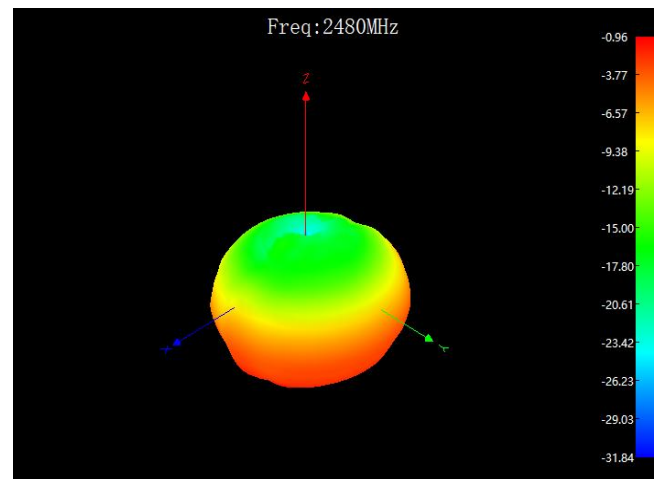
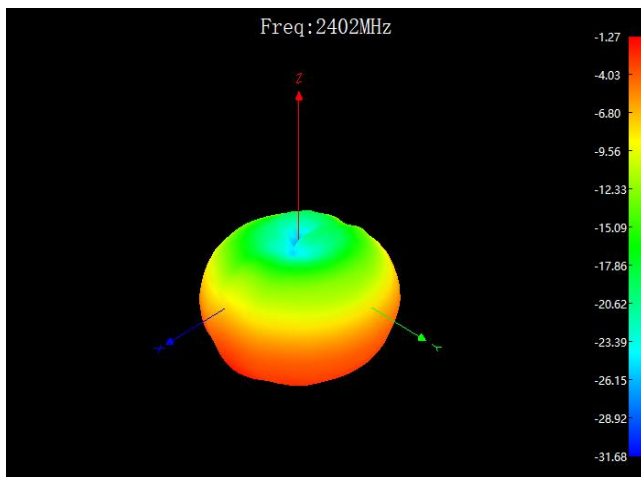
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## 3. Antenna efficiency and gain

Frequency/Mhz	Efficiency / %	MaxGain/dBi
2402	25.53	-1.27
2410	25.41	-1.54
2420	25.23	-1.53
2430	24.72	-1.69
2440	25.7	-1.52
2450	26.18	-1.43
2460	25.29	-1.31
2470	27.1	-0.91
2480	26.61	-0.96



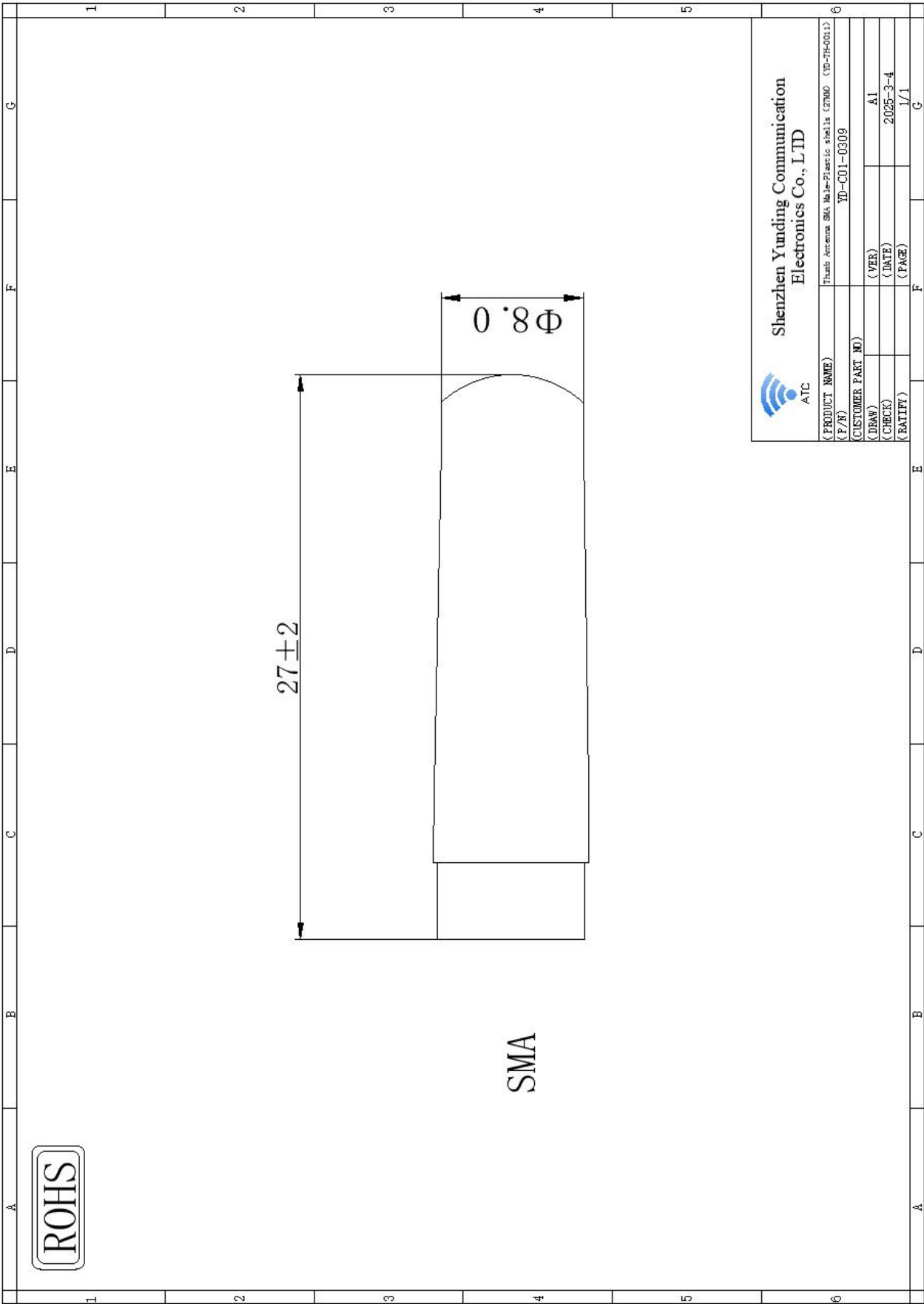
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## 4.Antenna structure diagram:



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## Technical parameters of electrical appliances

### Electrical Specifications

Frequency Range	2402~2480MHz
VSWR	$\leq 2.0$
Input Impedance	50 $\Omega$
Gain	0 DBI

### Mechanical Specifications

Antenna color	Black
Input connector	SMA
Antenna length	27mm
Working Temperature	-40℃~+85℃
Working Humidity	20~80%

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## Environment performance test:

Project	Test condition	Test results
<b>Storage environment</b>	Test temperature, humidity, pressure without stated condition as follwings :1.Temperature: -30 °C ~ +80 °C ;2.Relative humidity: 45%-85%;3,Pressure: 86kpa-106kpa	Electrical and mechanical performance normal
<b>High and low temperature test</b>	Having 5 times cycle between -40°C to 70°C,Then in common condition 1-2 hours test exterior quality.	Measurement satisfied with electrical and mechanical performance normal.
<b>Resistance constant hot and humid test</b>	Relative humidity:95±3%,Test temperature: 40°C,last 2 hours ,put it after 5 min test the electrical function . Test products during common condition 1-2 hours ,Then test exterior quality.	Measurement satisfied with electrical and mechanical performance normal.
<b>Vibration test</b>	Vibrate Frequency:10-55HZ; Distance :0.35mm;Acceleration :50.0m/s;Sweep frequency cycle:30 times	Electrical and mechanical performance normal
<b>Fall test</b>	From 1 mheight fall down 3 times freely (vertical direction)	Electrical and mechanical performance normal