

Shenzhen Yunding Communication Electronics Co., LTD

TEL: +86 0755-23073599

FAX: +86 0755-23097189

E-mail:wht0809@163.com

APPROVAL SHEET

CUSTOMER:

DESCRIPTION: 46 Small mushroom-shaped-4G-174-L1.2M-SMA

PART NO.: RF46-A1

CUS PART NO.: 30.001.025

D A T E: 2025/9/15

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.

Manufacturer:Shenzhen Yunding Communication Electronics Co., LTD

Address :3015, 3rd Floor, No. 1 Sanwei South Road, Bao 'an District, Shenzhen City, Guangdong Province

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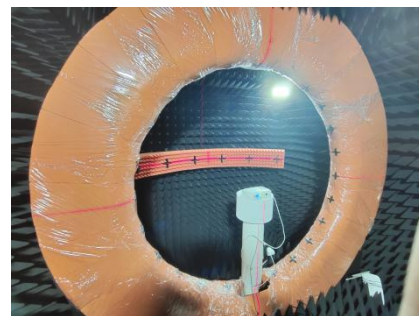
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1.Test items and equipment

	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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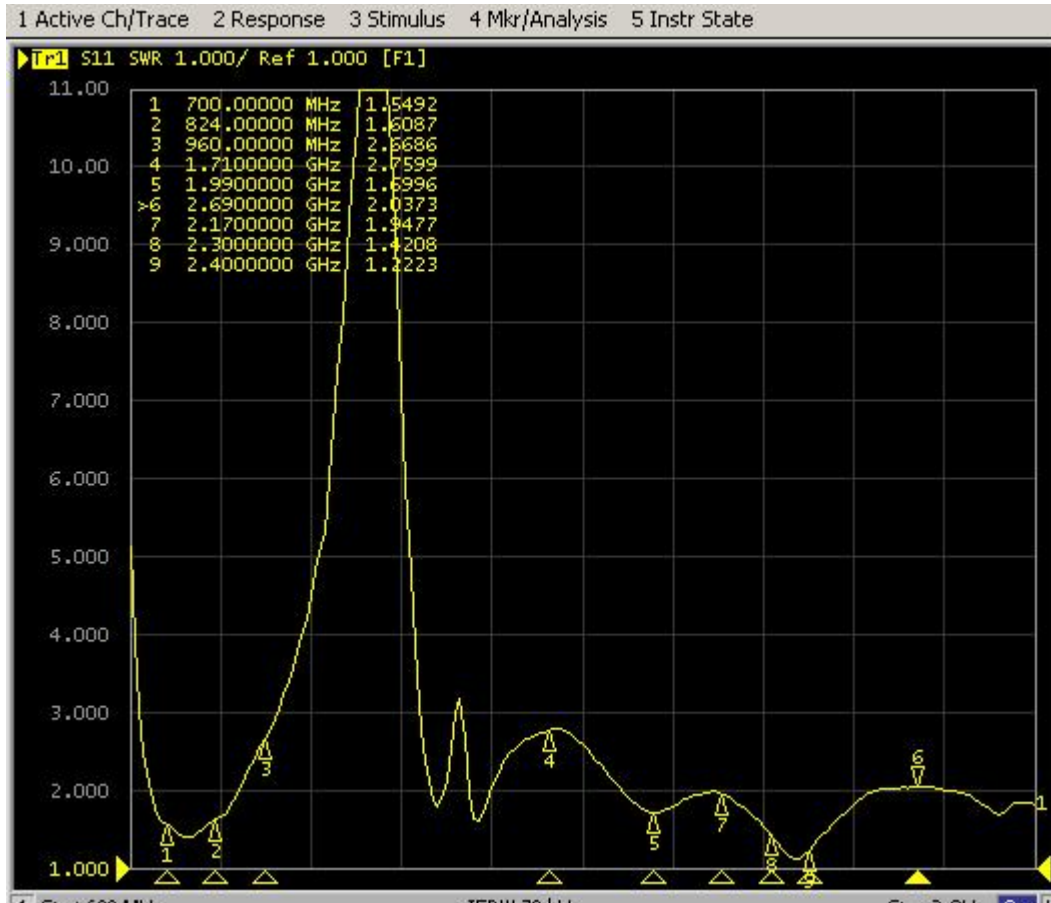
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2. Antenna performance

SWR



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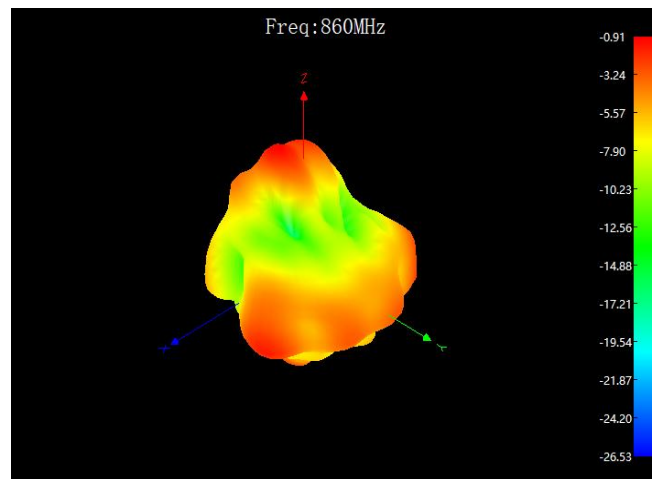
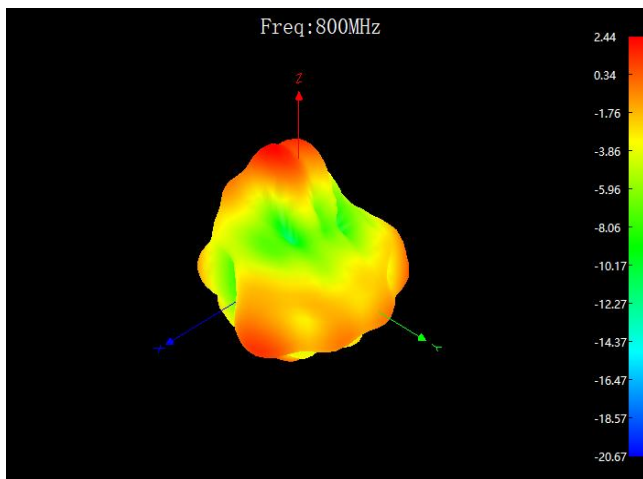
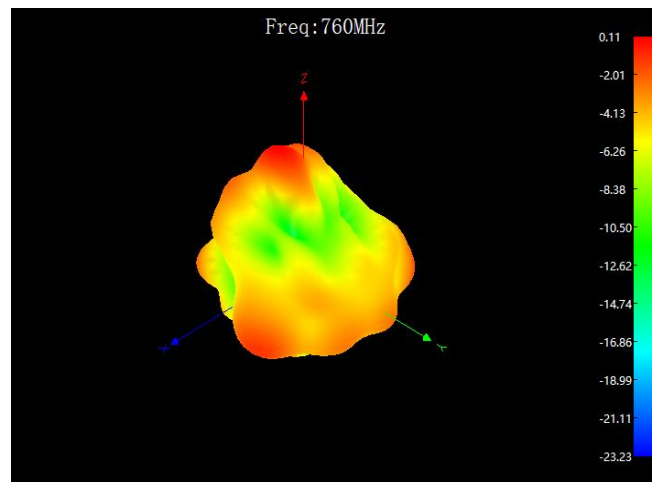
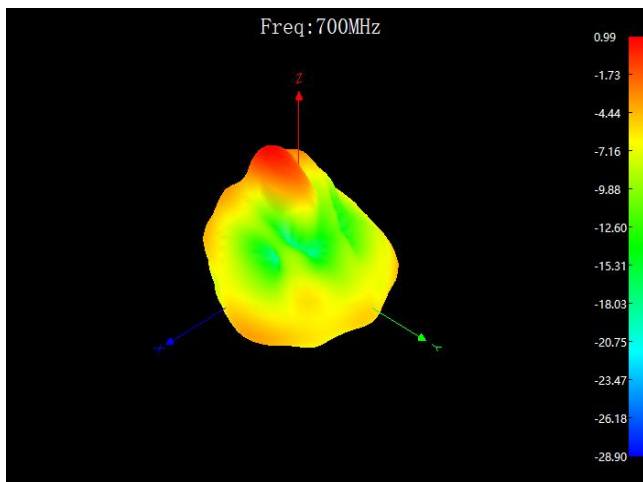
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3. Antenna efficiency and gain

Frequency/MHz	Efficiency / %	MaxGain/dBi
700	17.02	0.99
760	23.12	0.11
800	30.62	2.44
860	17.91	-0.91
900	13.09	-2.66
960	13.71	-0.82
1700	49.89	1.42
1800	48.08	0.24
1900	54.58	1.29
2000	47.53	1.91
2100	54.45	1.1
2200	47.64	1.14
2300	43.85	1.53
2400	48.08	1.64
2500	52.12	3
2600	48.87	3.35
2700	48.75	3.35



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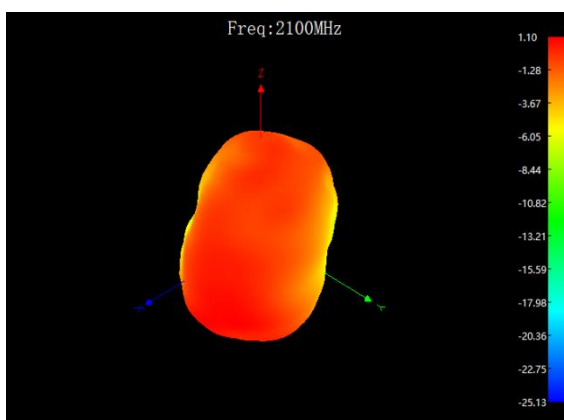
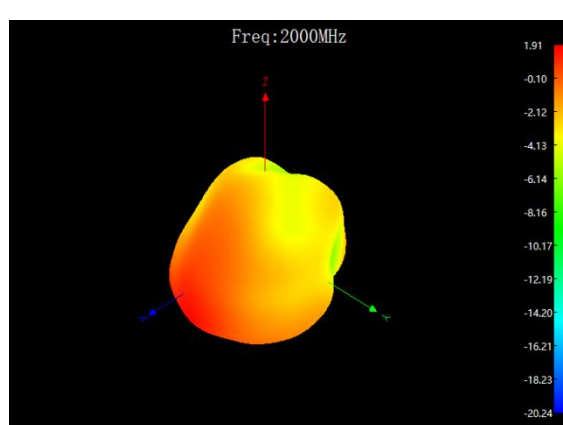
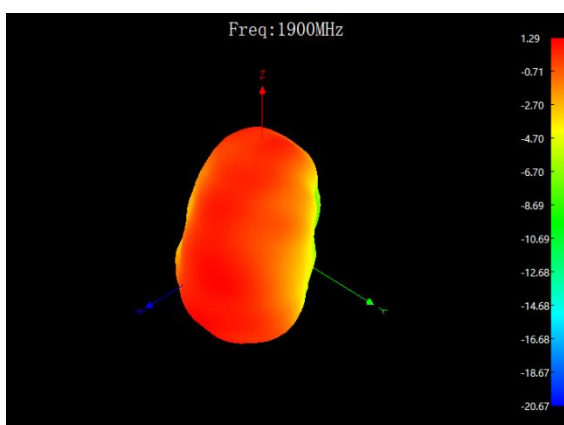
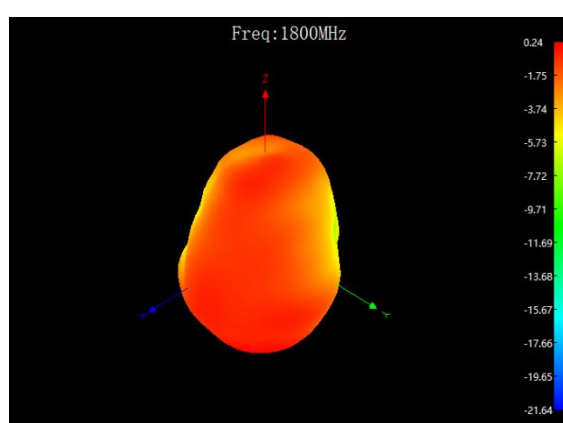
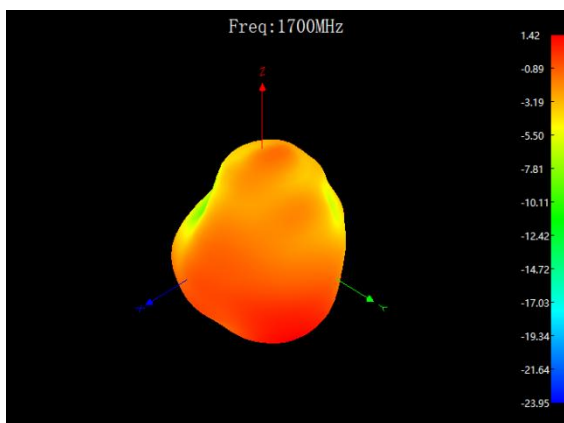
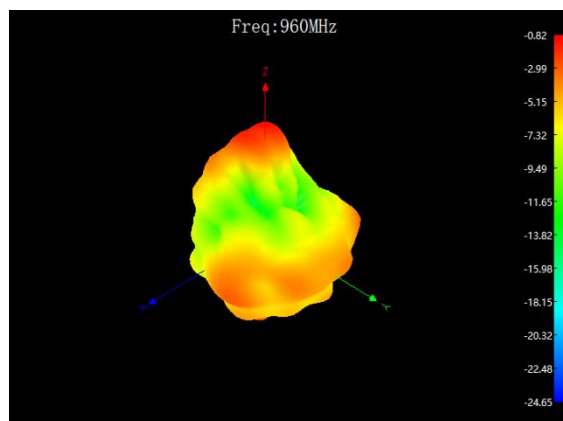
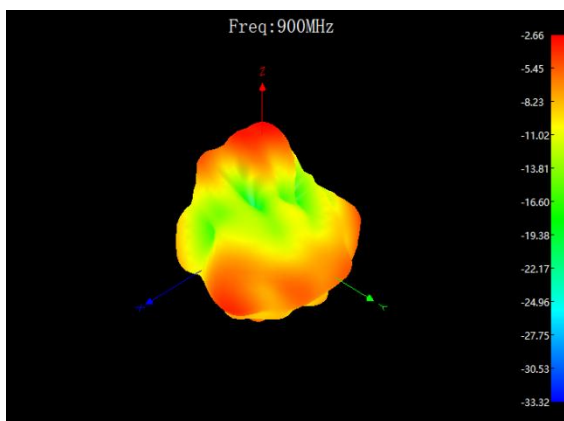
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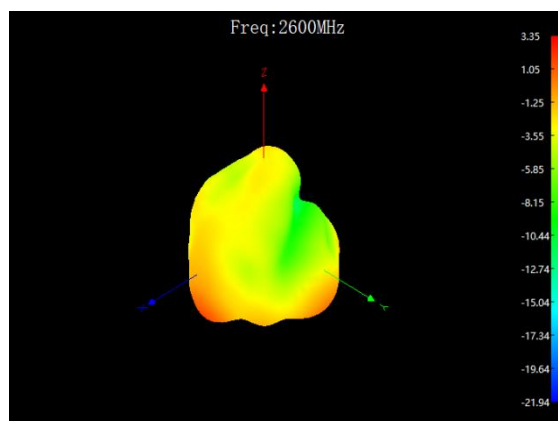
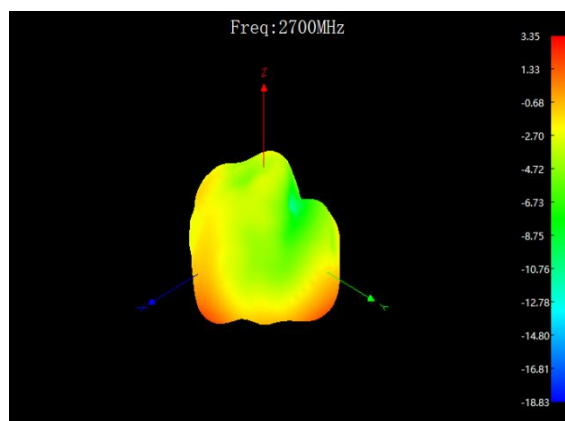
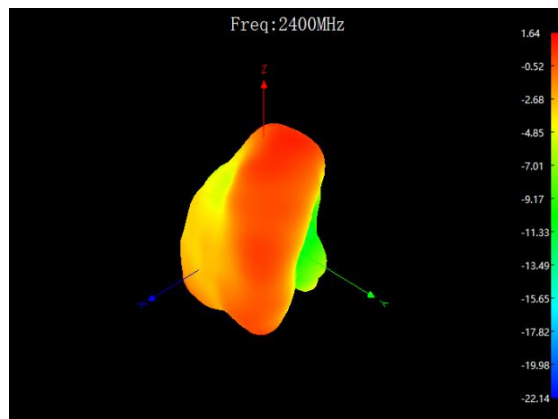
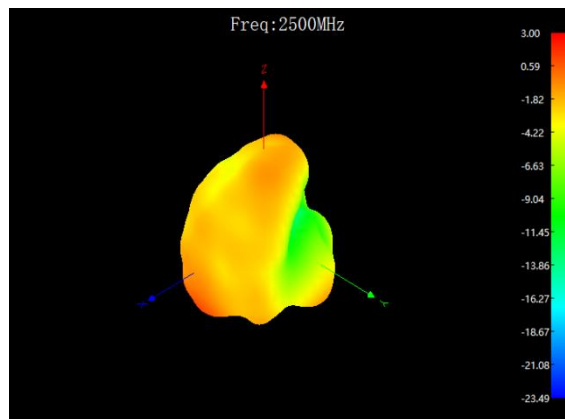
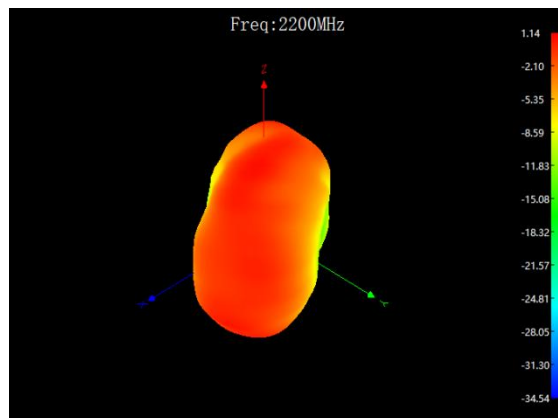
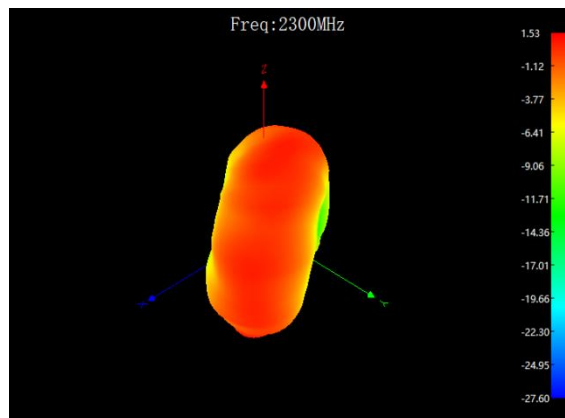
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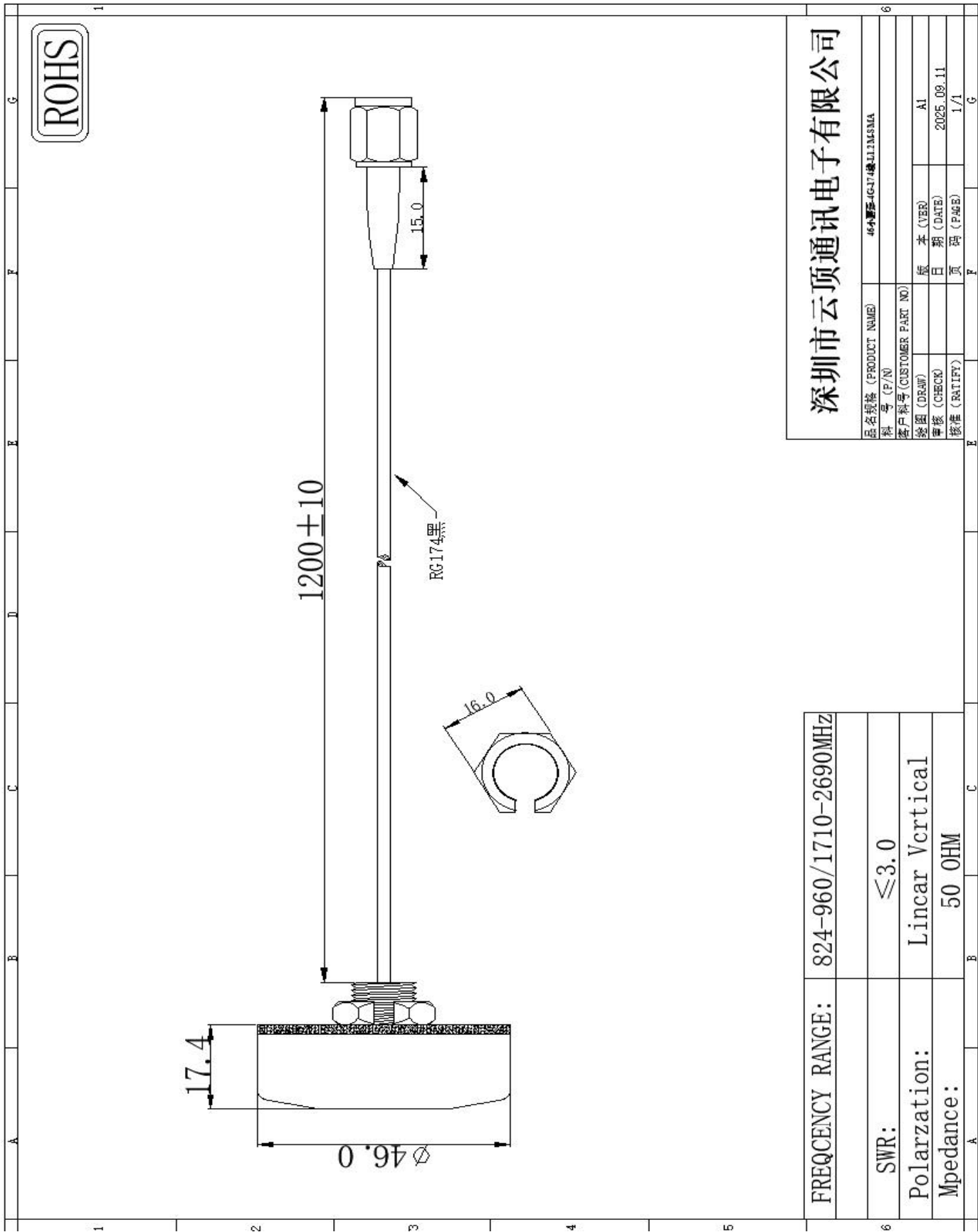
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4.Antenna structure diagram:



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Technical parameters of electrical appliances

Electrical Specifications

Frequency Range	700~960/1700~2700MHz
VSWR	≤ 3.0
Input Impedance	50 Ω
Gain	3.35 DBI

Mechanical Specifications

Antenna color	BLACK
Input connector	SMA
Antenna length	1.2M
Working Temperature	-40℃~+85℃
Working Humidity	20~80%

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