

Shenzhen Yunding Communication Electronics Co., LTD

TEL: +86 0755-23073599

FAX: +86 0755-23097189

E-mail:wht0809@163.com

APPROVAL SHEET

CUSTOMER:

DESCRIPTION: 2.4G-2DB rubber duck antenna-L110mm-SMA(MP)

PART NO.:

CUS PART NO.:

D A T E: 2026/4/23

SUPPLIER: Shenzhen Xunyan Communications Technology Co., Ltd.

Addr. : Room 3015, 3rd Floor, Jinchi Center, No. 1 Sanwei South Road,
Xixiang Street, Bao'an District, Shenzhen, Guangdong Province,
China

Signature

ENGINEERING DEPARTMENT	Q C DEPARTMENT	SALES DEPARTMENT
Zhang Shengbing	WU Bingbing	LIN Changhong

Customer signature

ENGINEERING DEPARTMENT	Q C DEPARTMENT	PURCHASING DEPARTMENT
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✂ Approval in duplicate, please signed by your company.

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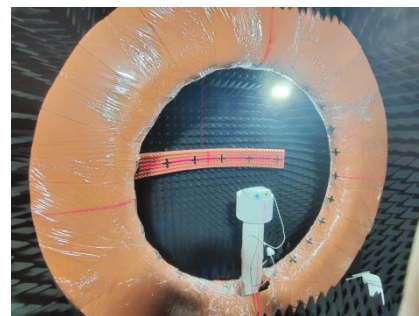
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1.Test items and equipment

	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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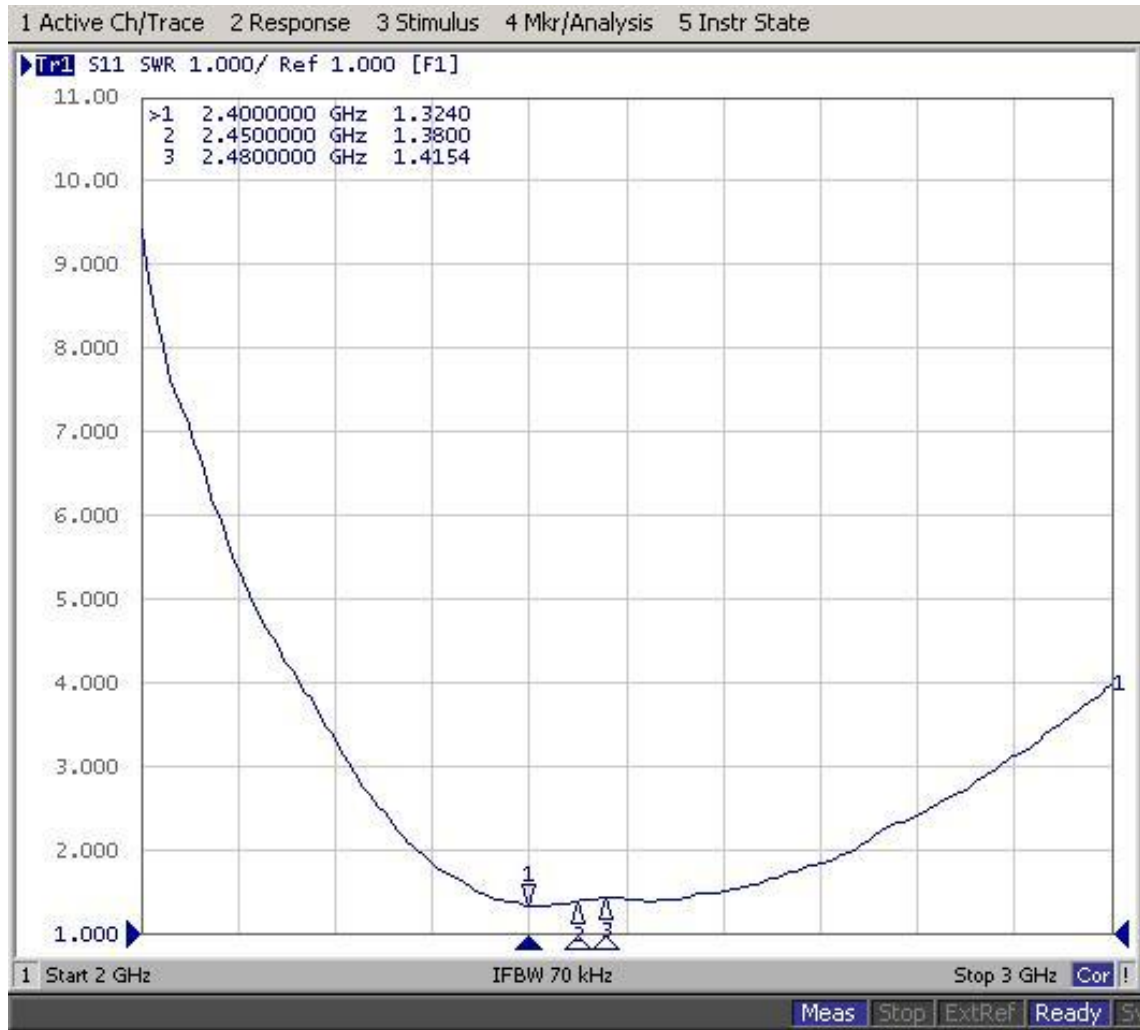
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2. Antenna performance

SWR



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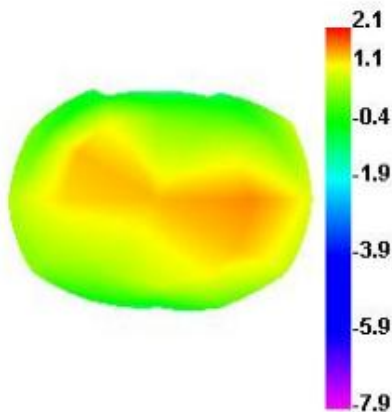
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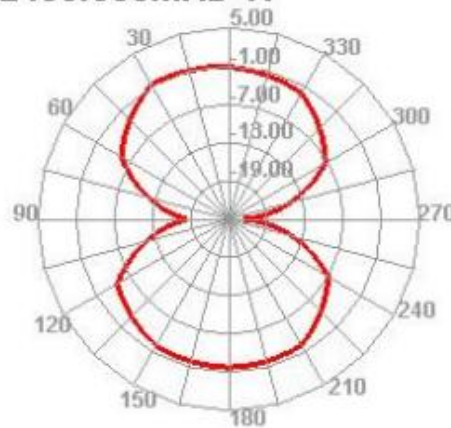
3. Antenna efficiency and gain

Passive Test For WIFI2.4		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	65.61	2.17
2410	62.34	1.99
2420	55.66	1.55
2430	53.63	1.32
2440	55.67	1.55
2450	58.85	2.1
2460	55.76	2.02
2470	59.31	2.45
2480	59.02	2.43
2490	61.59	2.73
2500	63.31	2.95

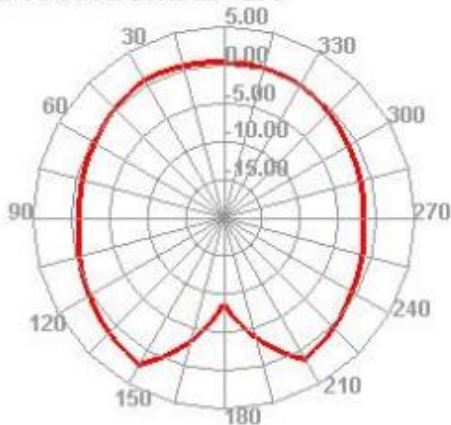
2450.000MHz



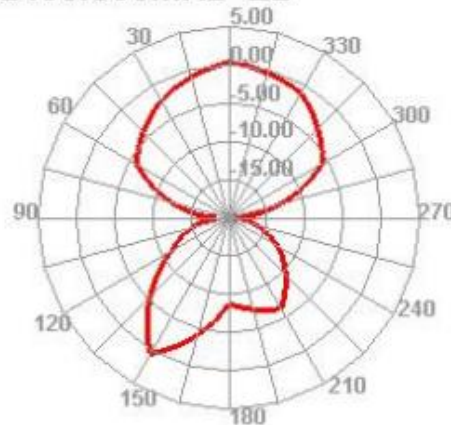
2450.000MHz H



2450.000MHz E1



2450.000MHz E2



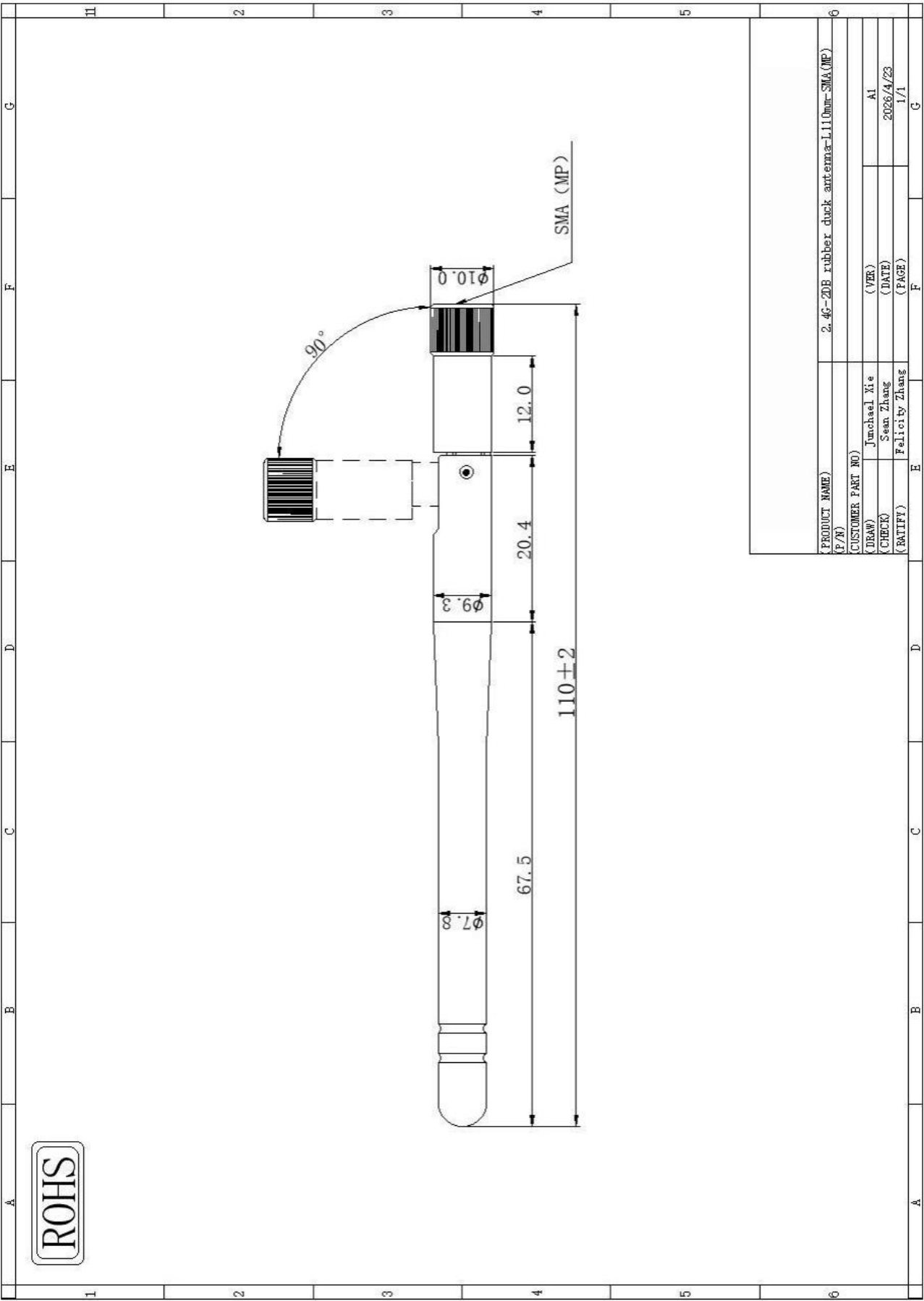
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4.Antenna structure diagram:



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Technical parameters of electrical appliances

Electrical Specifications

Frequency Range	2400~2500/5100~5800MHz
VSWR	≤ 1.5
Input Impedance	50 Ω
Gain	2.95 DBI

Mechanical Specifications

Antenna color	Black
Input connector	SMA
Antenna length	110mm
Working Temperature	-40℃~+85℃
Working Humidity	20~80%