

Shenzhen Yunding Communication Electronics Co., LTD

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

TEL: +86 0755-23073599

FAX: +86 0755-23097189

E-mail:wht0809@163.com

APPROVAL SHEET

CUSTOMER: Sundek Industrial Co., Limited

ADDRESS: TongFuYuXuFa Industrial Zoon, ShangCun Village, GongMing Town, BaoAn District Shenzhen City GuangDong 518106 China (Peoples Republic Of)

DESCRIPTION: 2.4-5.8G Dual Copper Tube Antenna (Full Heat Shrink) - 1.13 Cable
- Exposed 500MM - IPEX 1

CUS PART NO.:

D A T E: 2026/4/9

Yunding signature

ENGINEERING DEPARTMENT	Q C DEPARTMENT	SALES DEPARTMENT
Sean Zhang	Bingbing Wu	Rui Deng

Customer signature

ENGINEERING DEPARTMENT	Q C DEPARTMENT	PURCHASING DEPARTMENT
ChenPing	Sam Chen	Linda

TEL: 075523073599

✱ Approval in duplicate, please signed by your company.

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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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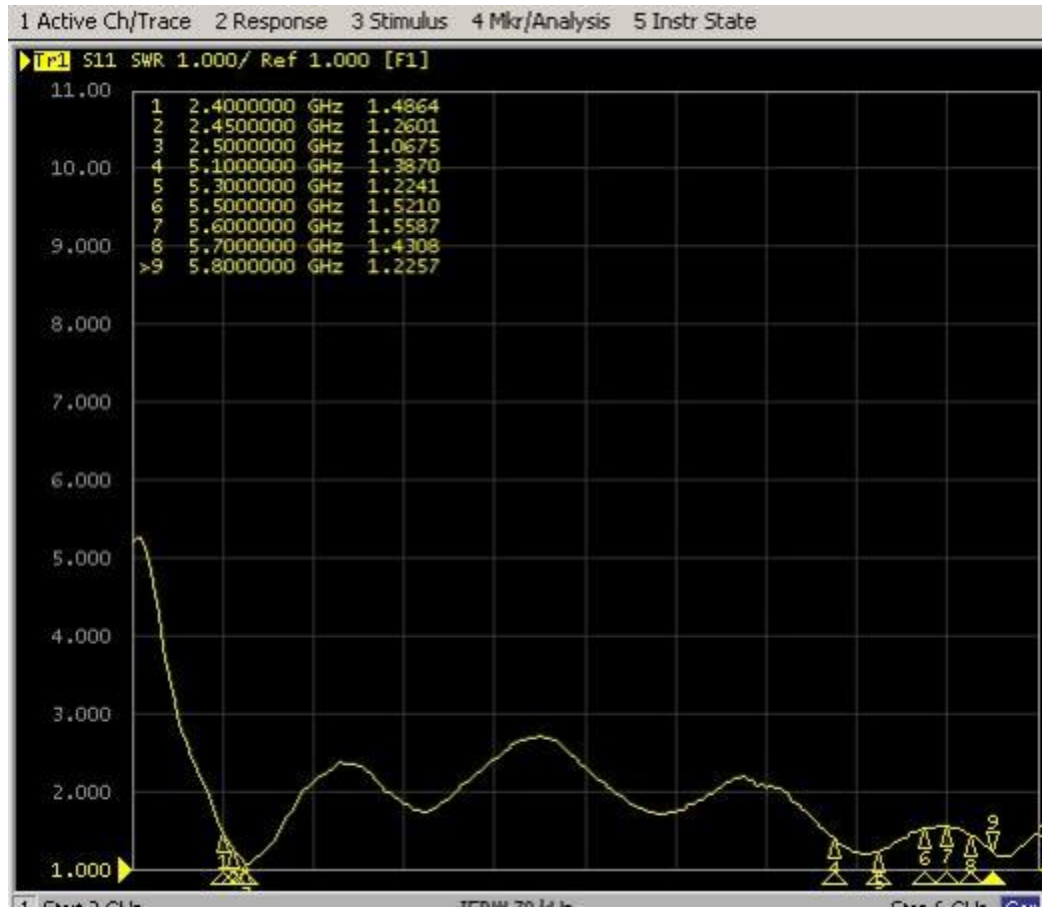
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2. Antenna performance

SWR



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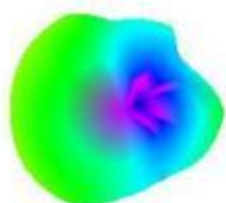
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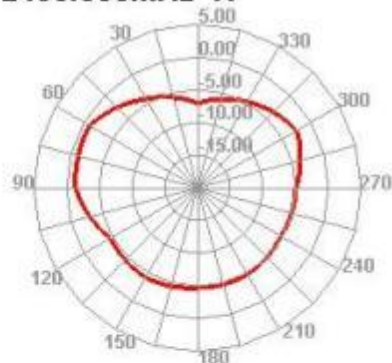
3.Antenna efficiency and gain

Passive Test For WIFI		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	65.99	2.99
2410	61.32	2.62
2420	60.58	2.52
2430	61.75	2.58
2440	64.63	2.73
2450	66.86	2.86
2460	67.45	2.92
2470	68.53	3.02
2480	67.12	2.94
2490	64.57	2.74
2500	63.95	2.7

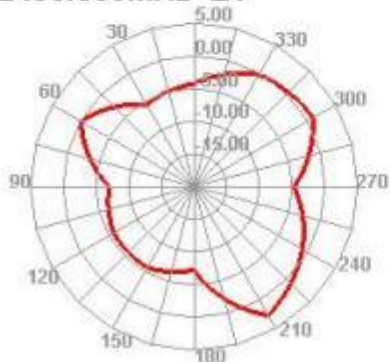
2400.000MHz



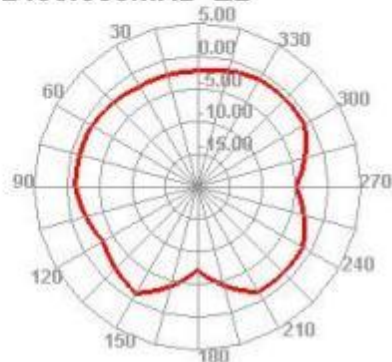
2400.000MHz H



2400.000MHz E1



2400.000MHz E2



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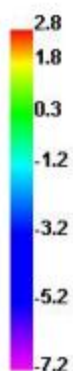
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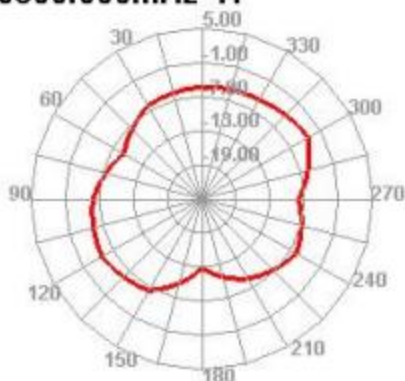
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Passive Test For WIFI-5G freq (MHz)	Err1 (%)	Gain (dBi)
5100	47.61	2.49
5200	45.39	2.67
5300	45.1	2.76
5400	50.94	2.59
5500	47.98	2.49
5600	48.41	2.25
5700	50.82	2.02
5800	44.69	2.13

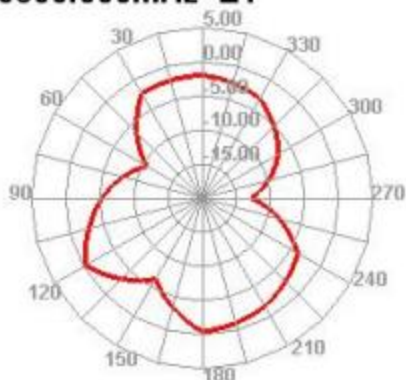
5300.000MHz



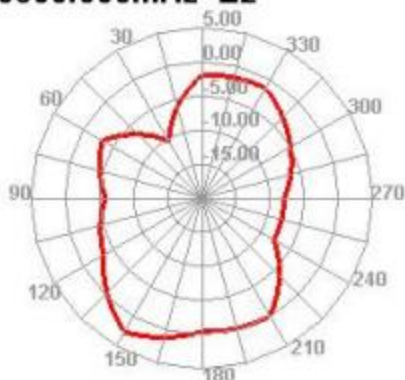
5300.000MHz H



5300.000MHz E1



5300.000MHz E2



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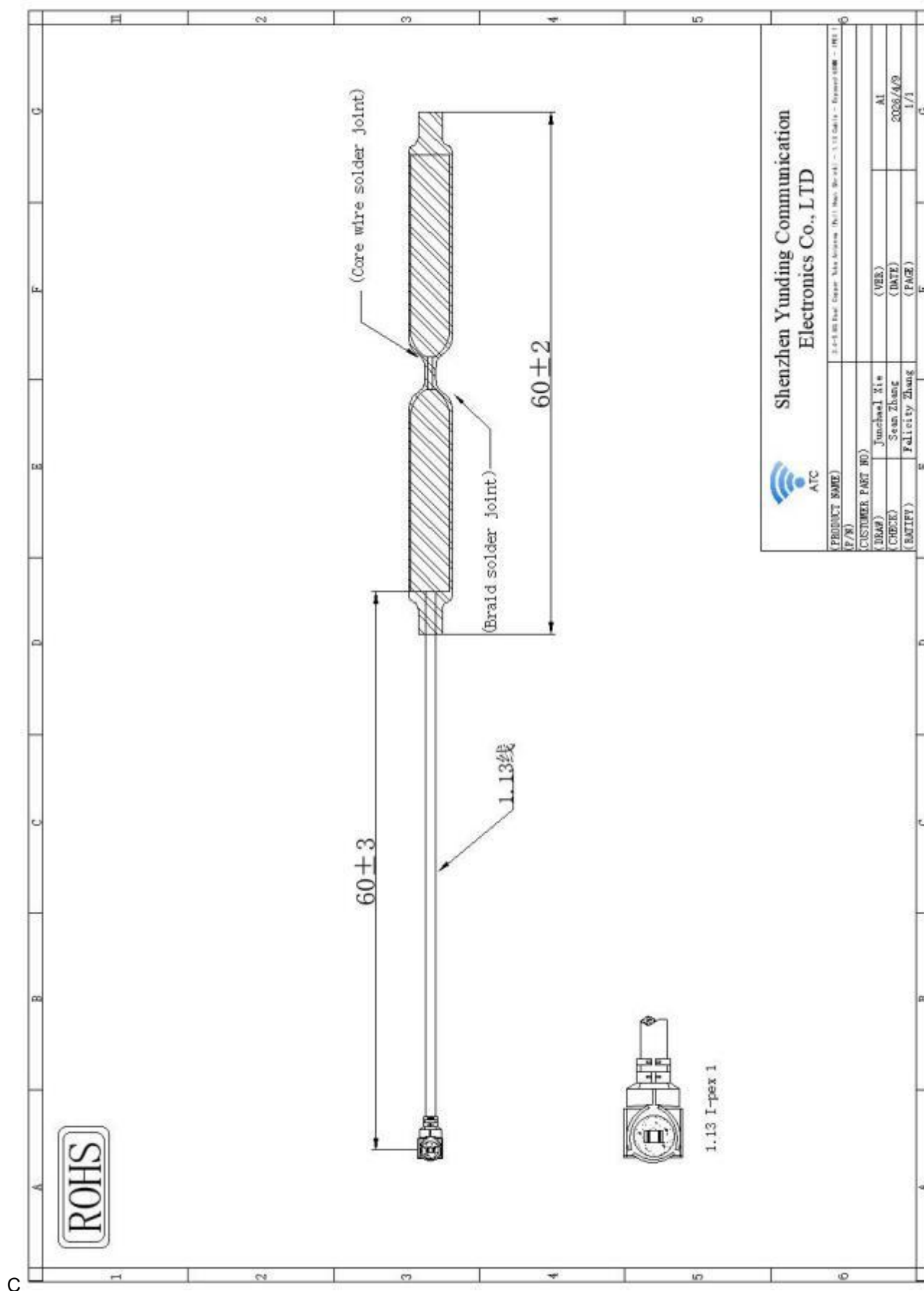
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4. Antenna structure diagram:



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Technical parameters of electrical appliances

Electrical Specifications

Frequency Range	2400~2500/5100~5800MHz
VSWR	≤2.0
Gain	3 DBI
Input Impedance	50 Ω

Mechanical Specifications

Antenna Color	Black
Input connector	IPEX 1
exposed cable length	60MM
Working Temperature	-40℃~+85℃
Working Humidity	20~80%

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5.Product physical picture

