

Shenzhen Yunding Communication Electronics Co., LTD

TEL: +86 0755-23073599

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APPROVAL

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DESCRIPTION: YD-PCB-0072ANTENNA-1. 13-L230MM-IPEX1

PART NO.:

CUS PART NO.:

D A T E: 2023-8-14

Signed by Yunding Company

ENGINEERING DEPARTMENT	Q C DEPARTMENT	SALES DEPARTMENT
Wu Shuyi	Liu Li	Wang Hongtao

Signed by customer

ENGINEERING DEPARTMENT	Q C DEPARTMENT	PURCHASING DEPARTMENT

Contact: 0755 23073599 150 1794 1162

* Approval in duplicate, please signed by your company.

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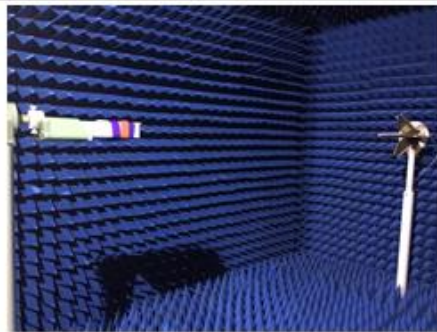
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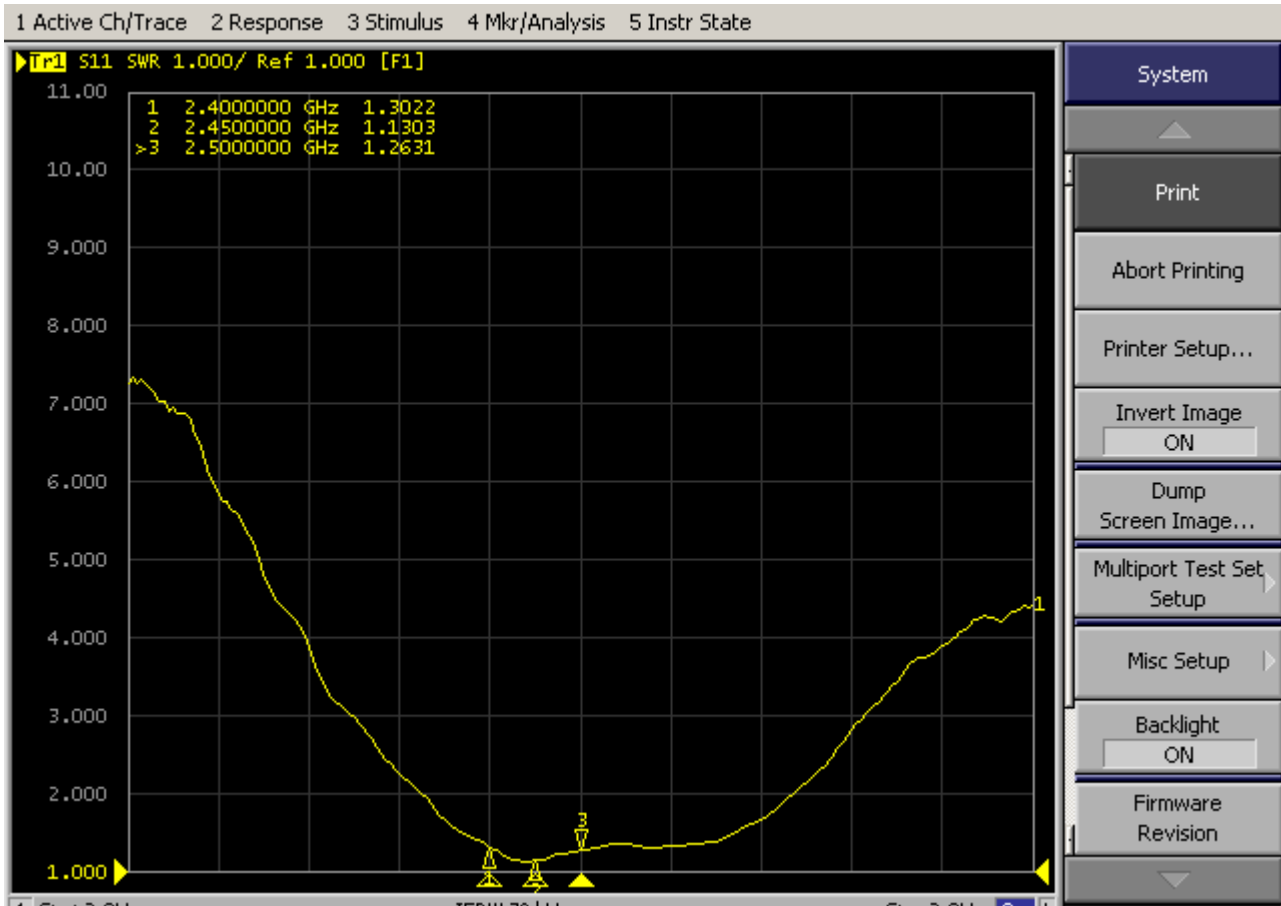
1. Test items and equipment

	Test items	Equipment
1. S-parameter	1. Return Loss 2. VSWR	Network analyzer: Agilent E5071B HP 8753D
2. Active test	1. TRP 2. TIS	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2.Comprehensive tester : Agilent 8960 E5515B x2 StarPoint SP6011
3.Passive test	1.Gain 2.Efficiency	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Comprehensive tester : Agilent E5071B HP 8753D



2. Antenna performance

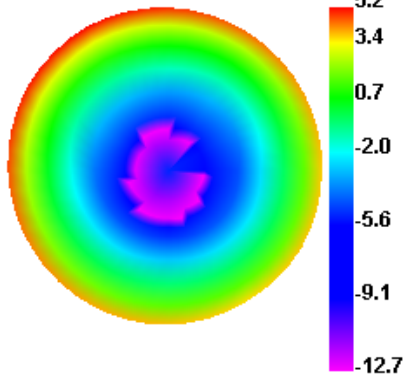
SWR



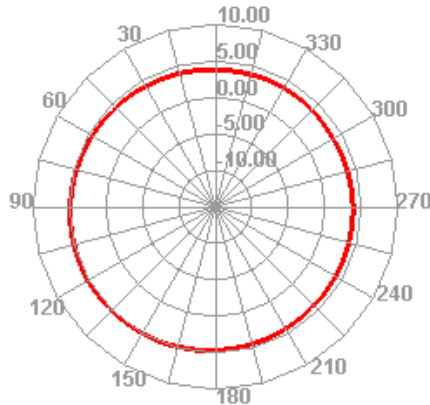
3.OTA Test data - Efficiency/gain

Passive Test For WIFI			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	93.69	-0.28	5.18
2410	90.92	-0.41	4.99
2420	89.48	-0.48	4.88
2430	86.8	-0.61	4.73
2440	86.23	-0.64	4.7
2450	85.34	-0.69	4.63
2460	82.51	-0.83	4.42
2470	78.66	-1.04	4.16
2480	77.22	-1.12	4.06
2490	79.27	-1.01	4.23
2500	72.6	-1.39	3.88

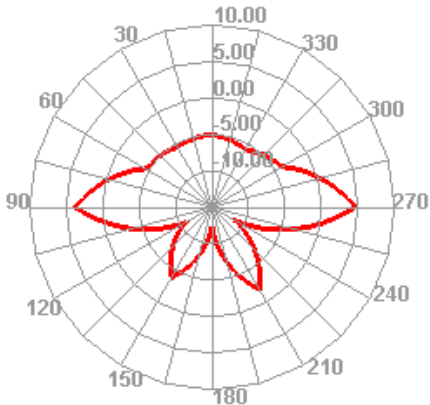
2400.000MHz



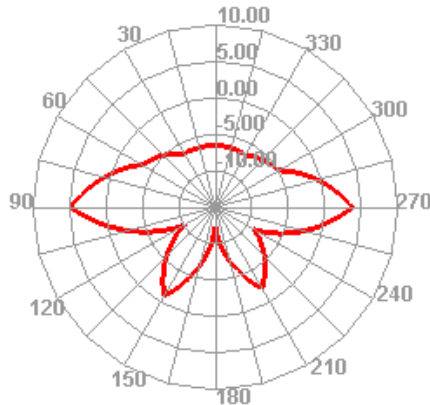
2400.000MHz H



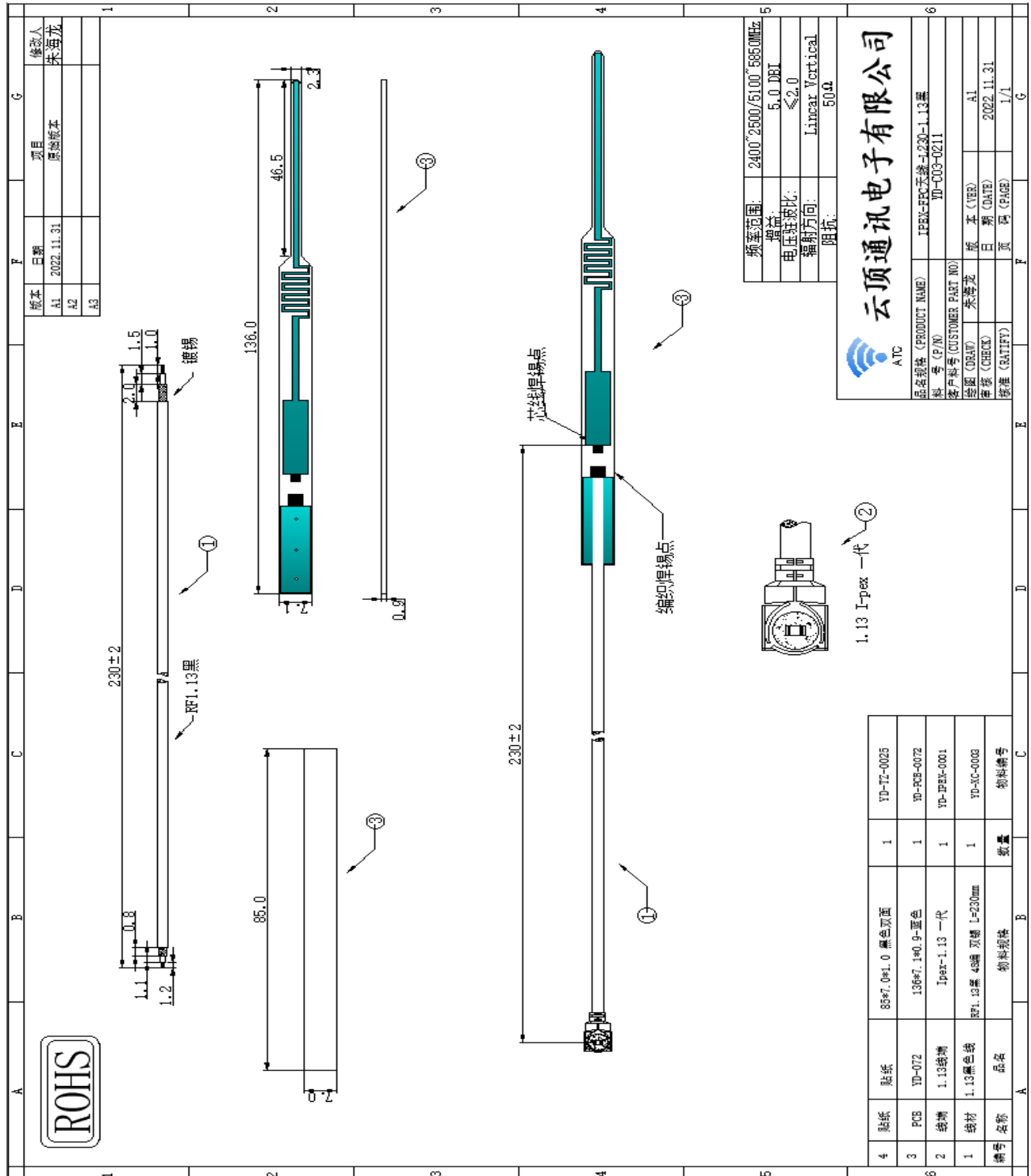
2400.000MHz E1




2400.000MHz E2



4. Antenna structure diagram (Unit: mm)



频率范围:	2400~2500/5100~5850MHz
增益:	5.0 DBI
电压驻波比:	≤2.0
辐射方向:	Linear Vertical
阻抗:	50Ω

 云顶通讯电子有限公司	
品名规格 (PRODUCT NAME)	IFEX-PCB天线-L230-1.13黑
料号 (P/N)	YD-C09-0211
客户料号 (CUSTOMER PART NO)	
坐席 (SEAT)	宋博龙
版本 (VER)	A1
日期 (DATE)	2022.11.31
审核 (CHECK)	
核准 (RAIFY)	
页码 (PAGE)	1/1

序号	名称	品名	物料规格	数量	物料编号
4	贴纸	贴纸	85*7.0*1.0 黑色双面	1	YD-TZ-0025
3	PCB	YD-072	136*7.1*0.9-蓝色	1	YD-PCB-0072
2	线圈	1.13线圈	I-peax-1.13 一代	1	YD-PEX-0001
1	线材	1.13黑色线	RF1.13黑 48编 双绞 L=230mm	1	YD-AC-0003



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Electrical Specifications	
Frequency Range	2400~2500MHz
VSWR	≤ 2.0
Input Impedance	50 Ω
Gain	5.18 DBI
Radiation direction	omnidirectional
Mechanical Specifications	
Working Temperature	-40°C~+85°C
Working Humidity	20~80%