

深圳旭航通讯科技有限公司

Shenzhen Xuhang Communication

规格承认书

客户 CUSTOMER	Square Core Innovation
客户料号 CUSTOMER NO.	H86
供方品名 PART NAME	WIFI antenna 2.4G
规格名称 SUPPLIER NO.	XH250001

客户确认 CUSTOMER APPROVED BY		
检验 APPROVAL	审核 CHIEF	批准 SUPERVISOR

设计 DESIGN	审核 CHECK	批准 APPROVAL
Luo	Robert	SHANG

Date: March 31, 2025

Shenzhen Xuhang Communication

深圳旭航通讯科技有限公司
Technology Co., Ltd

Address: 213, Building 1 Floor 2, Chenghede Industrial Zone, Henglang Community, Dalang Street, Longhua District, Shenzhen

DIRECTORY

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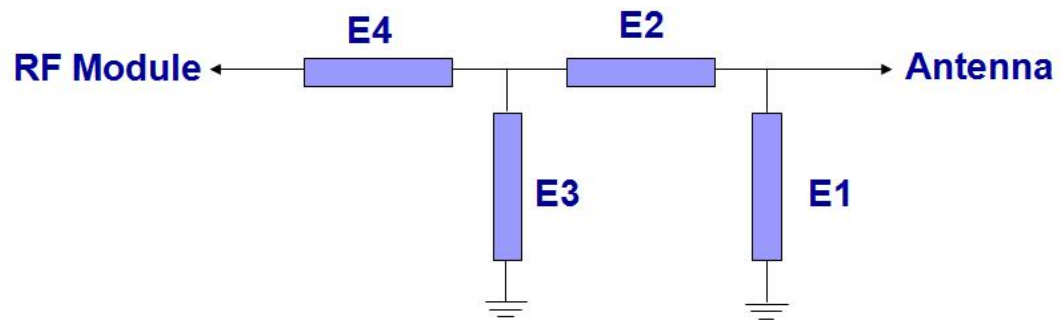
电性测试报告

TEST REPORTS

频率 Frequency	WIFI(2400~2500)
阻抗 Impedance	50 Ohm Nominal
驻波比 V.S.W.R	<2.0
回波损耗 Return Loss	-10dB Max
辐射 Radiation	Omni-directional
增益 Gain(Peak)	2.4G:2.62dBi
极化方式 Polarization	Linear,Vertical
功率 Admitted Power	1W
连接器 Connector	
Physical Properties	
天线材质 Antenna Material	FPC
线材类型 Cable Type	O.D.0.81mm
工作温度 Operating Temp.	-10-+60℃
存储温度 Storage Temp.	-10-+70℃
线材颜色 Cable Color	Black

匹配电路

Matching Circuits



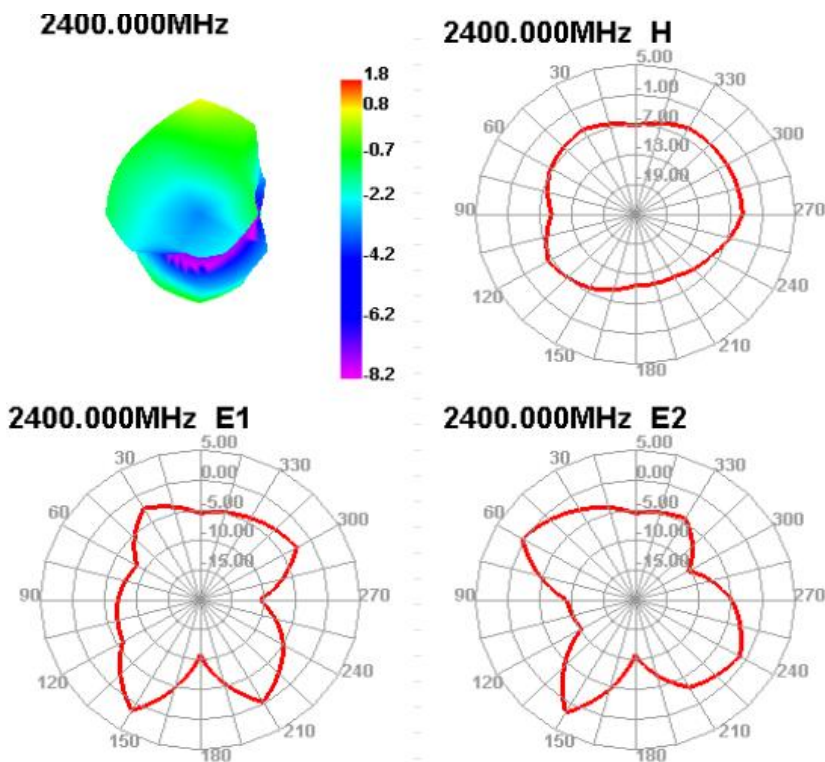
The original matching circuit has not been modified

测试数据

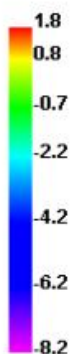
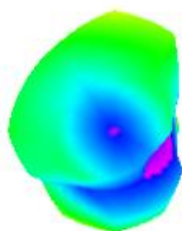
Test Data

Freq (MHz)	Effi (%)	Gain (dBi)
2400	41.26	1.77
2410	46.04	1.15
2420	42.73	1.88
2430	45.5	2.17
2440	50.99	2.62
2450	43.24	1.8
2460	43.66	0.56
2470	44.38	0.5
2480	41.48	0.15
2490	44.5	1.64
2500	47.36	2.04

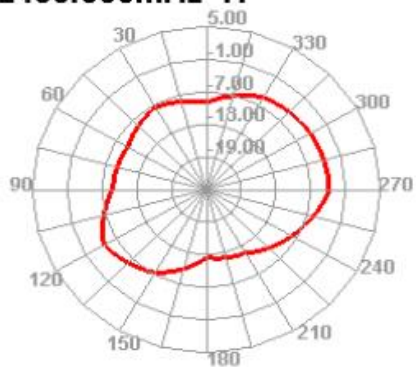
3D 方向图



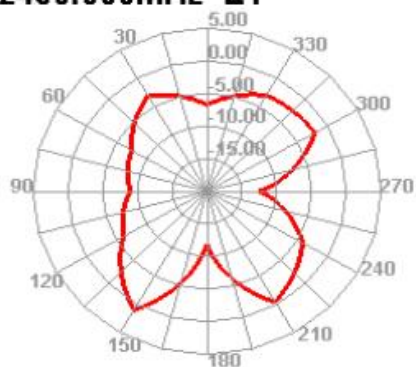
2450.000MHz



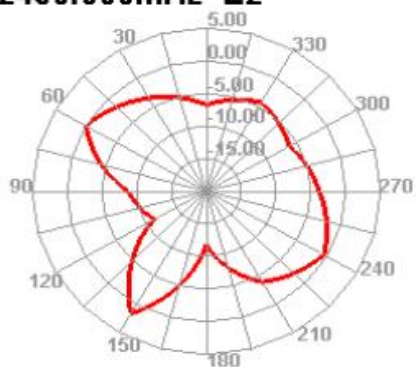
2450.000MHz H



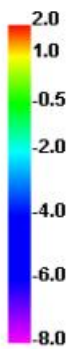
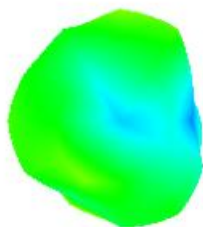
2450.000MHz E1



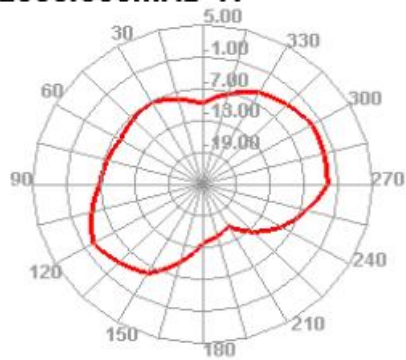
2450.000MHz E2



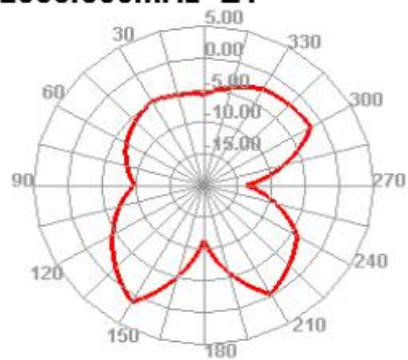
2500.000MHz



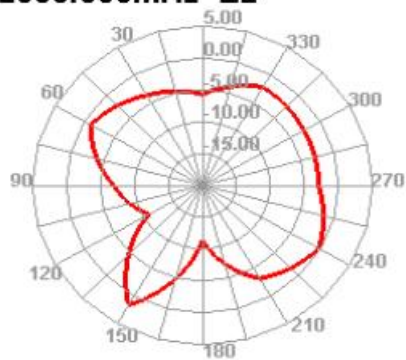
2500.000MHz H



2500.000MHz E1

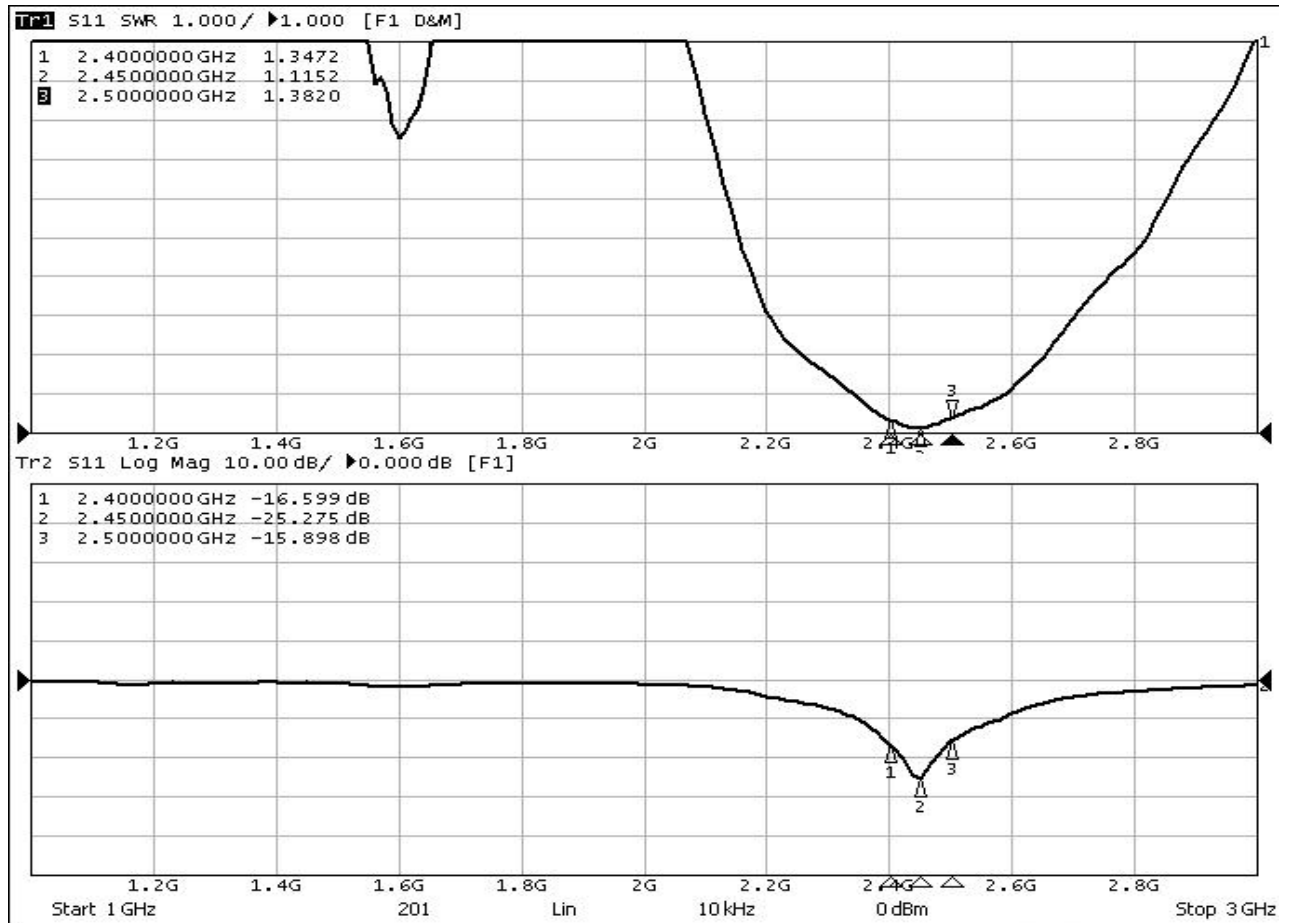


2500.000MHz E2

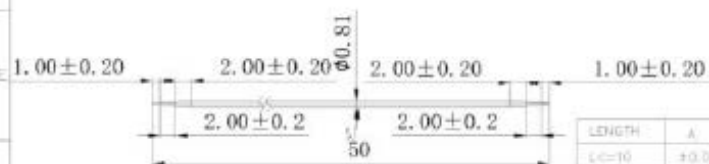
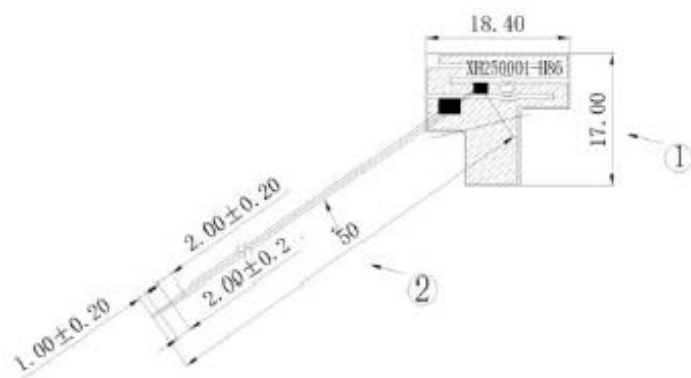


无源驻波

Standing wave loss



Unit: mm



LENGTH	A	B	C
$L \leq 10$	± 0.05	± 0.10	± 0.15
$10 < L \leq 50$	± 0.10	± 0.15	± 0.20
$50 < L \leq 150$	± 0.15	± 0.20	± 0.30
$L > 150$	± 0.20	± 0.25	± 0.40

天线安装位置

Antenna assembly position

Antenna assembly
position

