

深圳旭航通讯科技有限公司

Shenzhen Xuhang Communication

规格承认书

客户 CUSTOMER	中科物栖
客户料号 CUSTOMER NO.	
供方品名 PART NAME	2.4G
规格名称 SUPPLIER NO.	XH240165

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: April 14, 2025

DIRECTORY

[illegible]

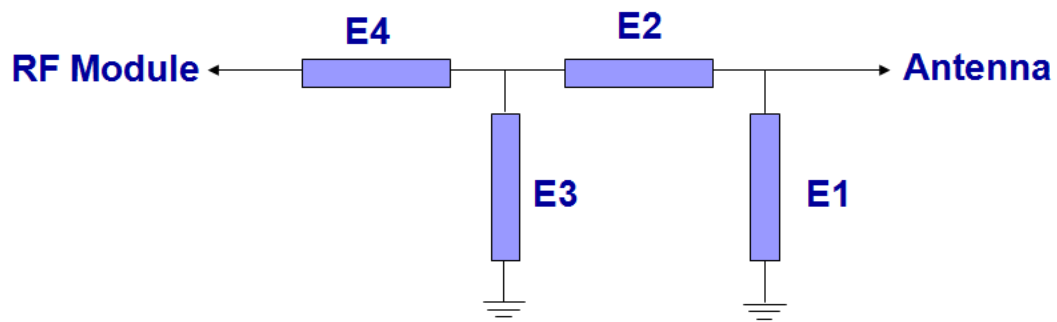
电性测试报告

TEST REPORTS

频率 Frequency	WIFI(2400MHz~2500MHz)
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:4.28dBi
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

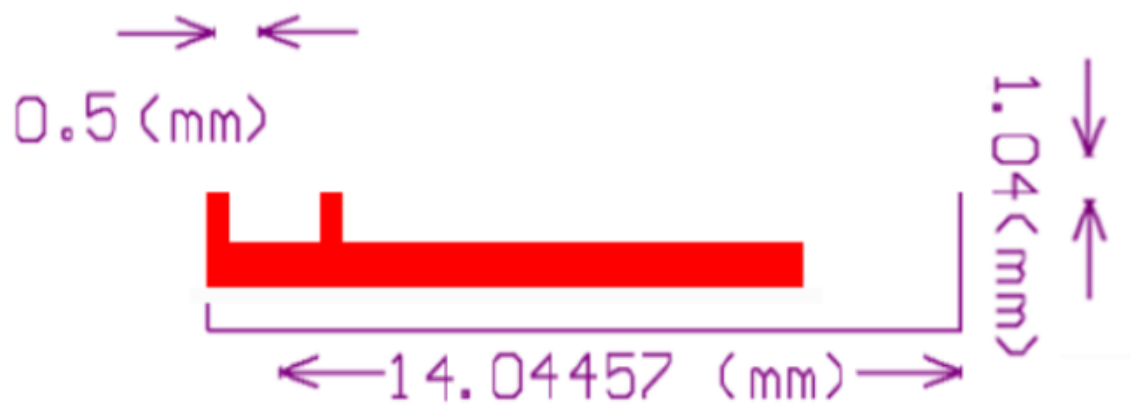
Matching Circuits



匹配电路

The original matching circuit has not been modified

DRAWING



测试数据

Test Data

Application Information					
O4Version		5.256.357			
TotalTime		7m 50s 538ms			
AdditionalInfor		802.11b : 11Mbps			
Test	Wifi 2G TRP			Test	Wifi 2G TIS
Result	1	6	11	Result	11
Frequency (MHz)	2412	2437	2462	Frequency (MHz)	2462
Txp Ave (dBm)	15.49	14.09	14.95	Sens Ave (dBm)	-81.84

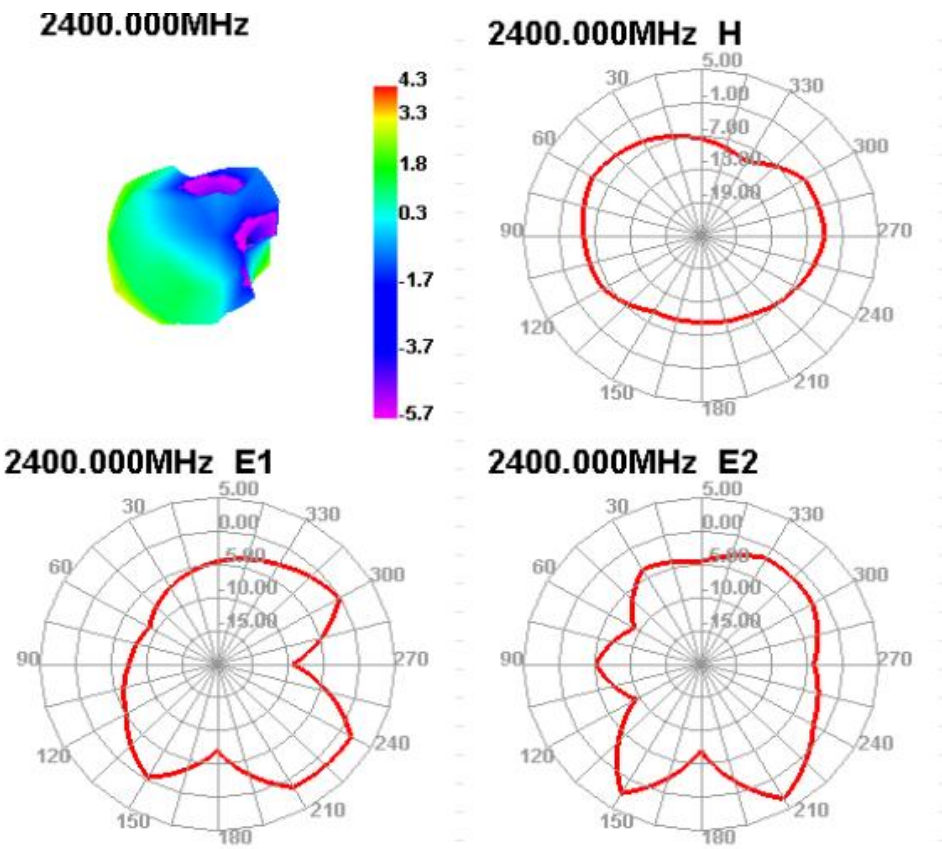
Application Information					
O4Version		5.256.357			
TotalTime		6m 13s 961ms			
AdditionalInfor		802.11g : 54Mbps			
Test	Wifi 2G TRP			Test	Wifi 2G TIS
Result	1	6	11	Result	11
Frequency (MHz)	2412	2437	2462	Frequency (MHz)	2462
Txp Ave (dBm)	13.49	14.93	14.61	Sens Ave (dBm)	-71.09

Application Information					
O4Version		5.256.357			
TotalTime		7m 6s 502ms			
AdditionalInfor		802.11n : MCS7			
Test	Wifi 2G TRP			Test	Wifi 2G TIS
Result	1	6	11	Result	11
Frequency (MHz)	2412	2437	2462	Frequency (MHz)	2462
Txp Ave (dBm)	14.67	14.41	14.16	Sens Ave (dBm)	-67.7

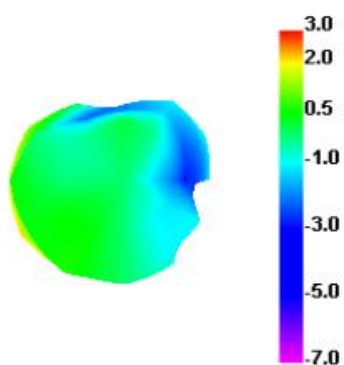
无源测试数据

Freq (MHz)	Effi (%)	Effi (dB)
2400	60.83	4.28
2410	51.74	3.7
2420	47.76	3.38
2430	45.16	2.88
2440	45.74	2.92
2450	46.3	3
2460	48.06	3.65
2470	58.75	3.94
2480	56.87	3.16
2490	53.21	2.76
2500	45.32	1.34

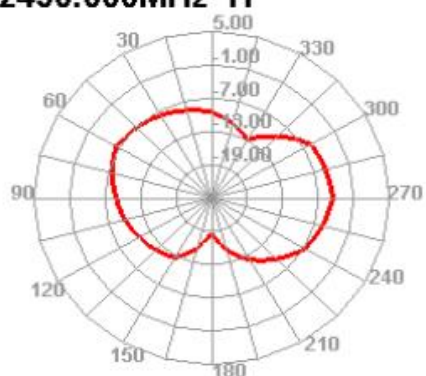
3D 方向图



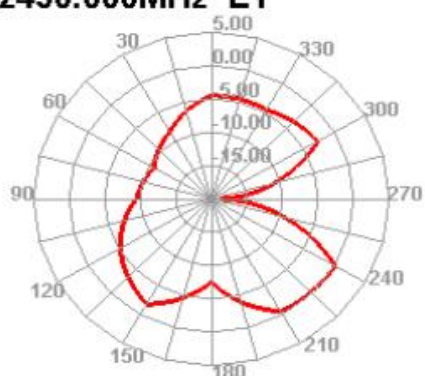
2450.000MHz



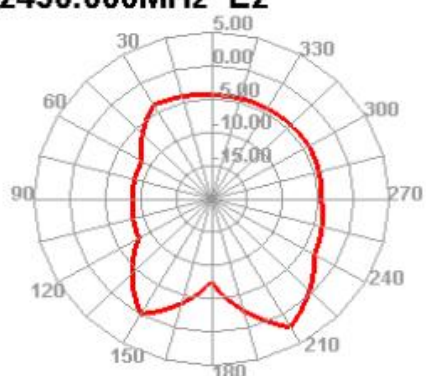
2450.000MHz H



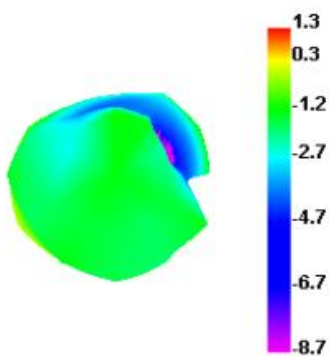
2450.000MHz E1



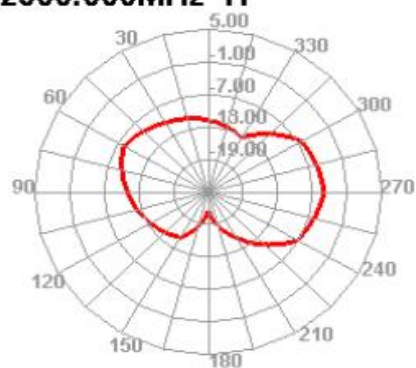
2450.000MHz E2



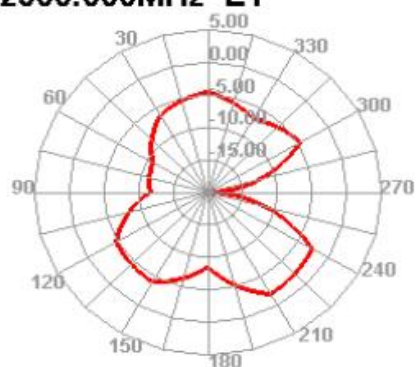
2500.000MHz



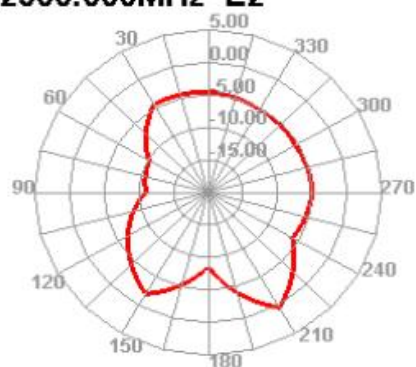
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



无源驻波

Standing wave loss

