

Shenzhen Xuhang Communication Technology Co., Ltd

CUSTOMER	GuangXi BeiLiu JinBao Electronic Co., Ltd.
PART NAME	WIFI Antenna
SUPPLIER NO.	XH230004 (L=40mm)

CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

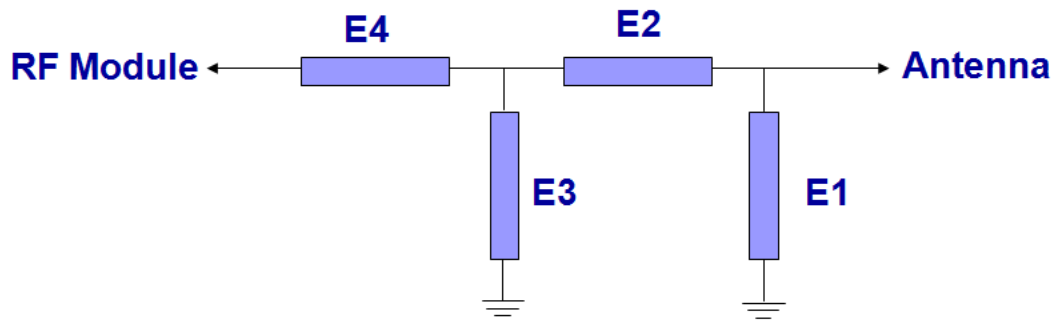
DESIGN	CHECK	APPROVAL
Luo	Robert	SHANG

Date: January 3, 2023.

TEST REPORTS

Frequency	WIFI(2400~2500MHz)
Impedance	50 Ohm Nominal
V.S.W.R	≤ 2.0
Return Loss	-10dB Max
Radiation	Omni-directional
Gain(Peak)	2.27dBi
Polarization	Linear,Vertical
Admitted Power	1W
连接器 Connector	/
Physical Properties	
Antenna Material	FPC
Cable Type	O.D.0.81mm
Operating Temp.	-10-+60℃
Storage Temp.	-10-+70℃
Cable Color	Black

Matching Circuits

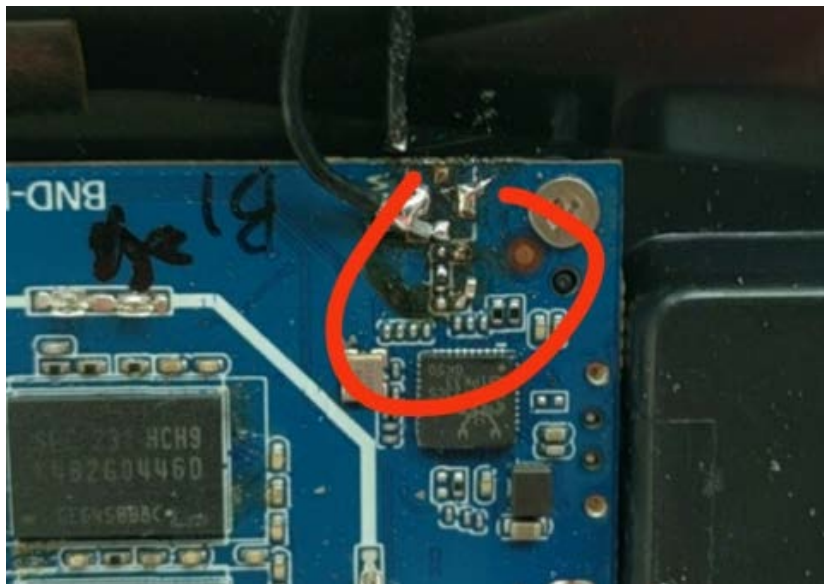


Matching components

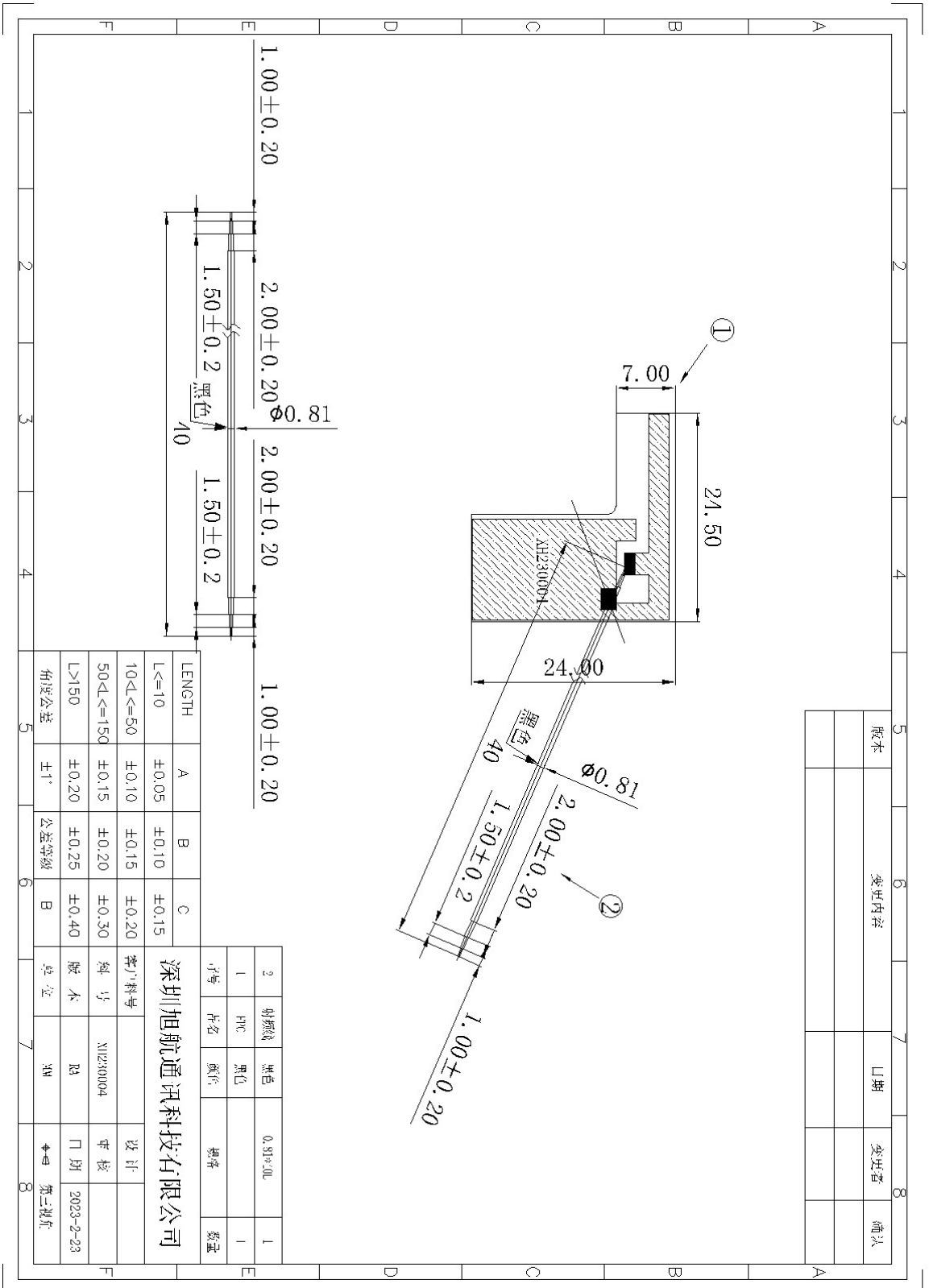
Element	Value	Vender
E1(0402)		
E2(0402)	0 Ω	
E3(0402)		
E4(0402)	0 Ω	

The original matching circuit has been modified.

Remove the ground capacitance from the original matching.



DRAWING



版本	变更内容	日期	变更者	确认

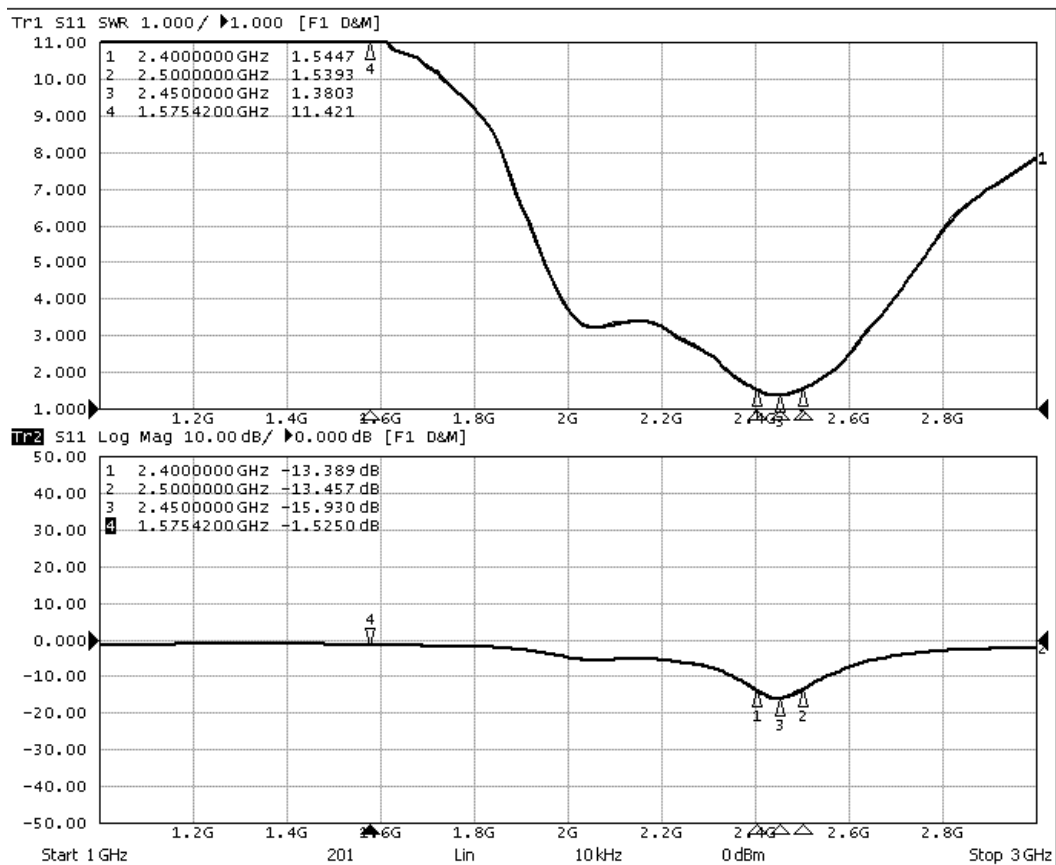
LENGTH	A	B	C	客户料号	设计
$L \leq 10$	± 0.05	± 0.10	± 0.15		
$10 < L \leq 50$	± 0.10	± 0.15	± 0.20		
$50 < L \leq 150$	± 0.15	± 0.20	± 0.30	XH230004	审核
$L > 150$	± 0.20	± 0.25	± 0.40	R3	日期 2023-2-23
公差等级	$\pm 1^*$	公差等级	B	单位	MM

深圳旭航通讯科技有限公司					
2	物料级	黑色	0.81±0.01	1	
1	FPC	黑色		1	
1	片名	贴片	贴片	数量	

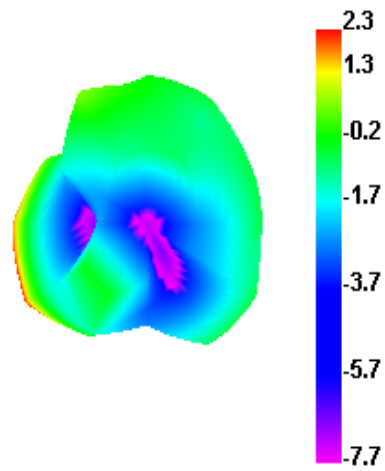
客户料号: XH230004
 设计:
 审核:
 日期: 2023-2-23
 单位: MM
 第三规范

Test Data

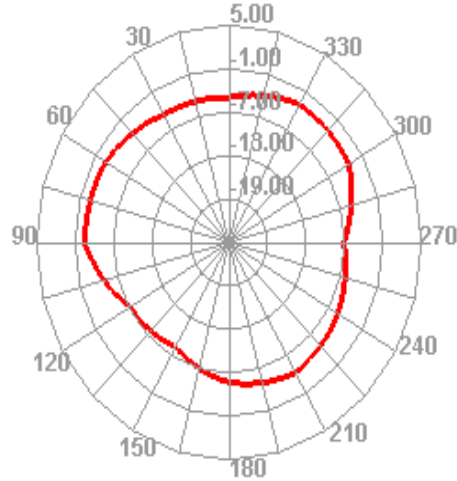
Freq (MHz)	Effi (%)	Gain (dBi)
2400	58.35	2.27
2410	55.68	1.98
2420	58.35	2.08
2430	54.97	1.67
2440	56.75	1.43
2450	58.21	1.96
2460	50.35	1.2
2470	52.98	1.52
2480	54.72	1.57
2490	61.77	1.95
2500	59.99	1.59



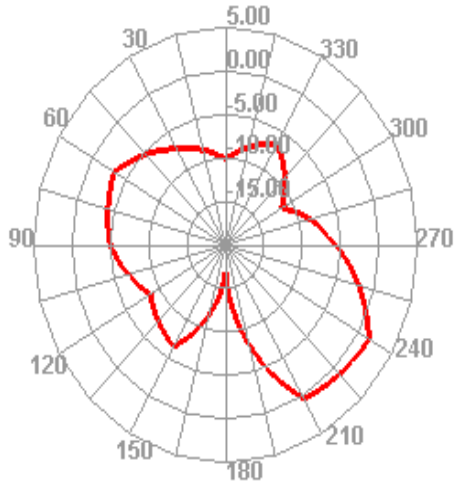
2400.000MHz



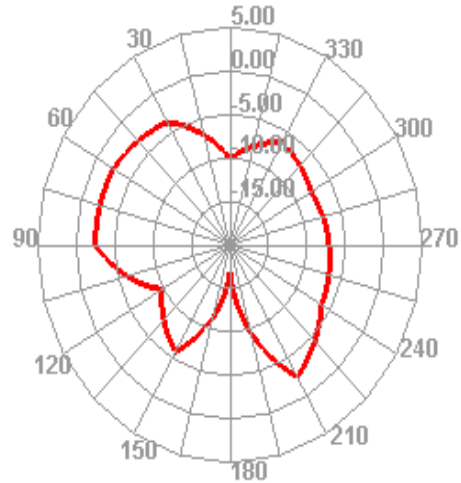
2400.000MHz H



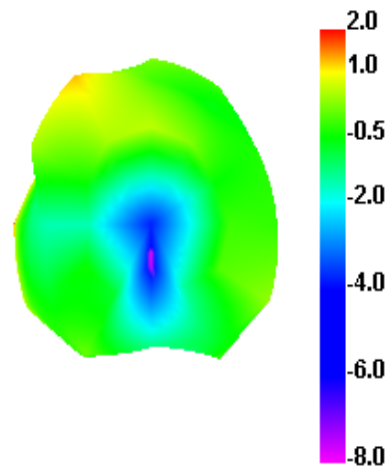
2400.000MHz E1



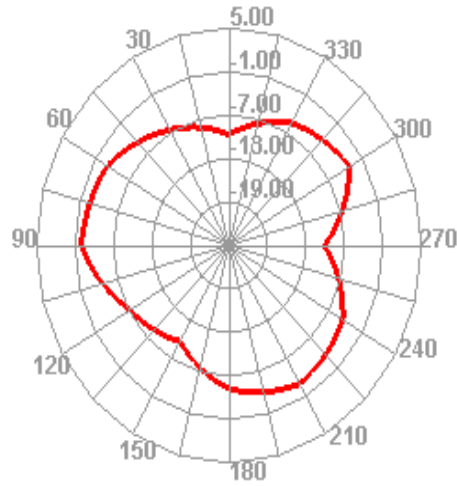
2400.000MHz E2



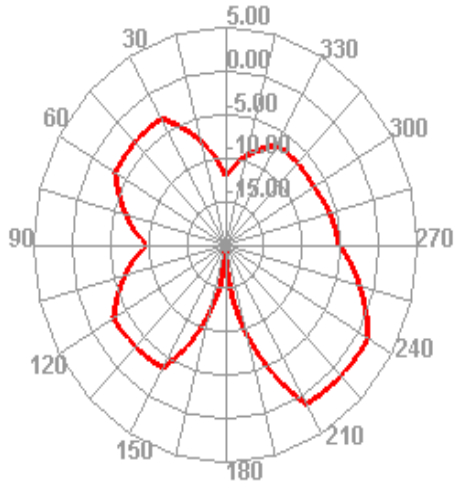
2450.000MHz



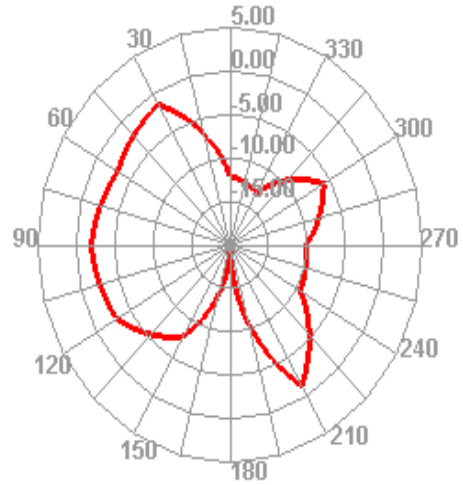
2450.000MHz H



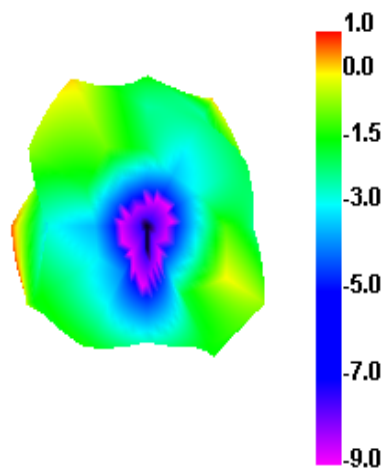
2450.000MHz E1



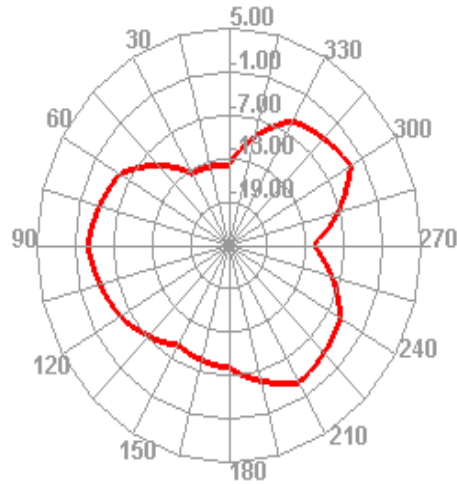
2450.000MHz E2



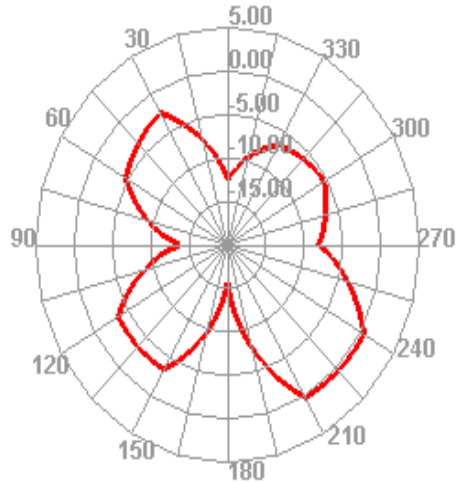
2500.000MHz



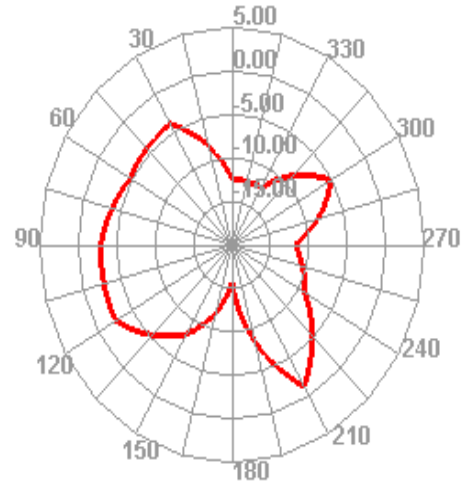
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



Antenna assembly position

