

Shenzhen Xuhang Communication Technology Co., Ltd

ADD: 213-214, Building 1 Floor 2, Chenghede Industrial Zone, Henglang Community,
Dalang Street, Longhua District, Shenzhen

SP3 Antenna Specification

CUSTOMER	Shenzhen Bodahui Technology Co., LTD
CUSTOMER NO.	
PART NAME	SP3 WIFI Antenna
SUPPLIER NO.	XH240107

CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

DESIGN	CHECK	APPROVAL
Luo	Robert	Michael

Date: December 3rd, 2024

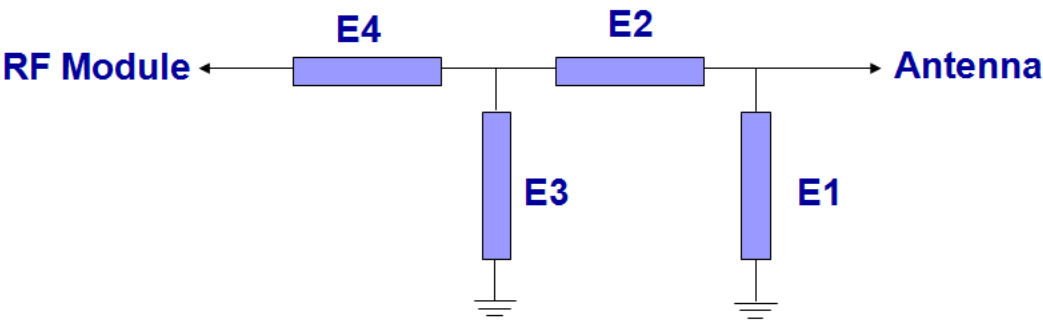
DIRECTORY

[illegible]

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)	2.52 dBi
Polarization	Linear,Vertical
Admitted Power	1W
Connector	I-PEX I
Physical Properties	
Antenna Material	FPC
Cable Type	O.D.1.13mm
Operating Temp.	-10-+60℃
Storage Temp.	-10-+70℃
Cable Color	Black

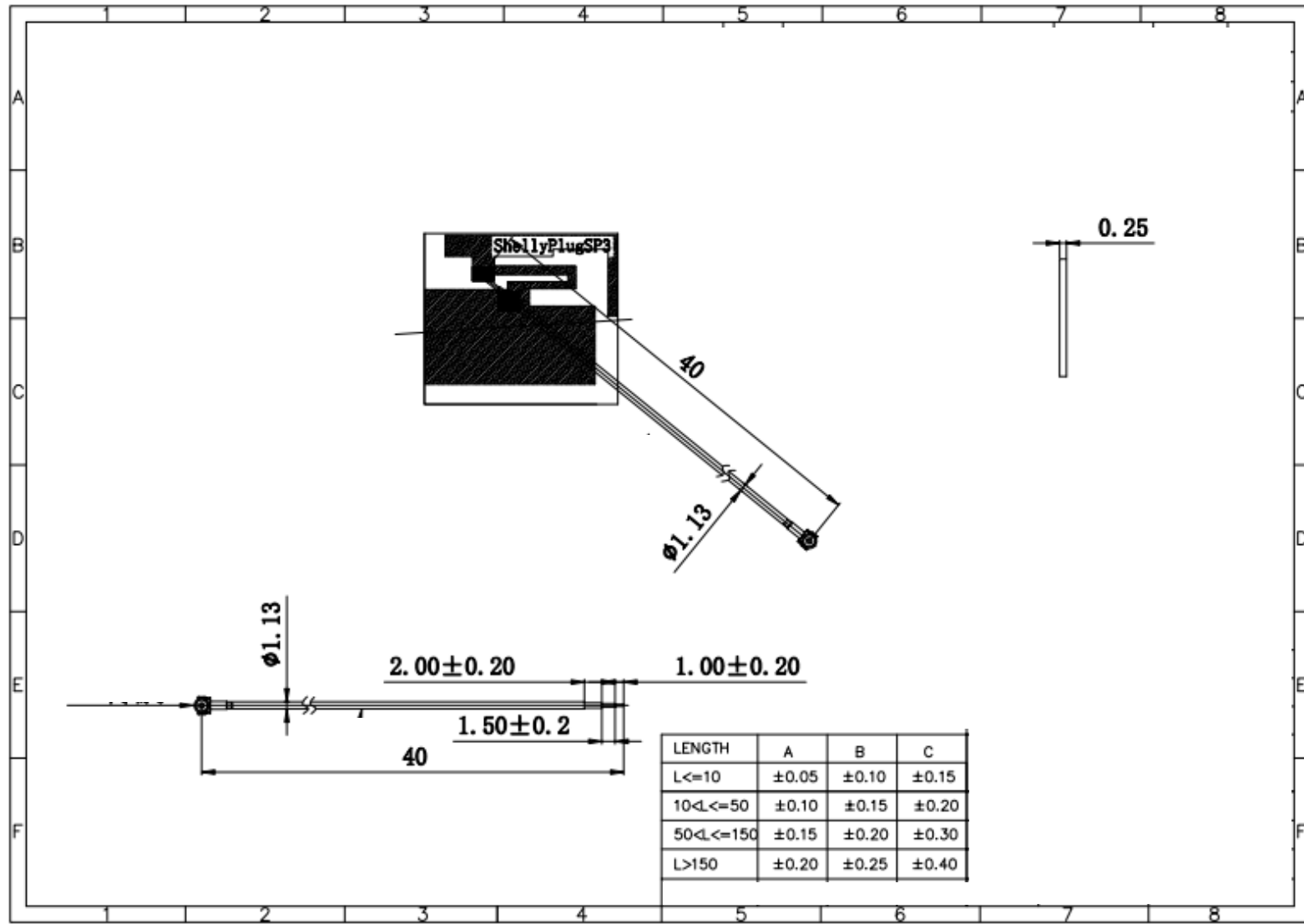
Matching Circuits



Element	Value	Vender
E1(0402)		
E2(0402)	/	
E3(0402)		
E4(0402)	/	

The original matching circuit has not been modified

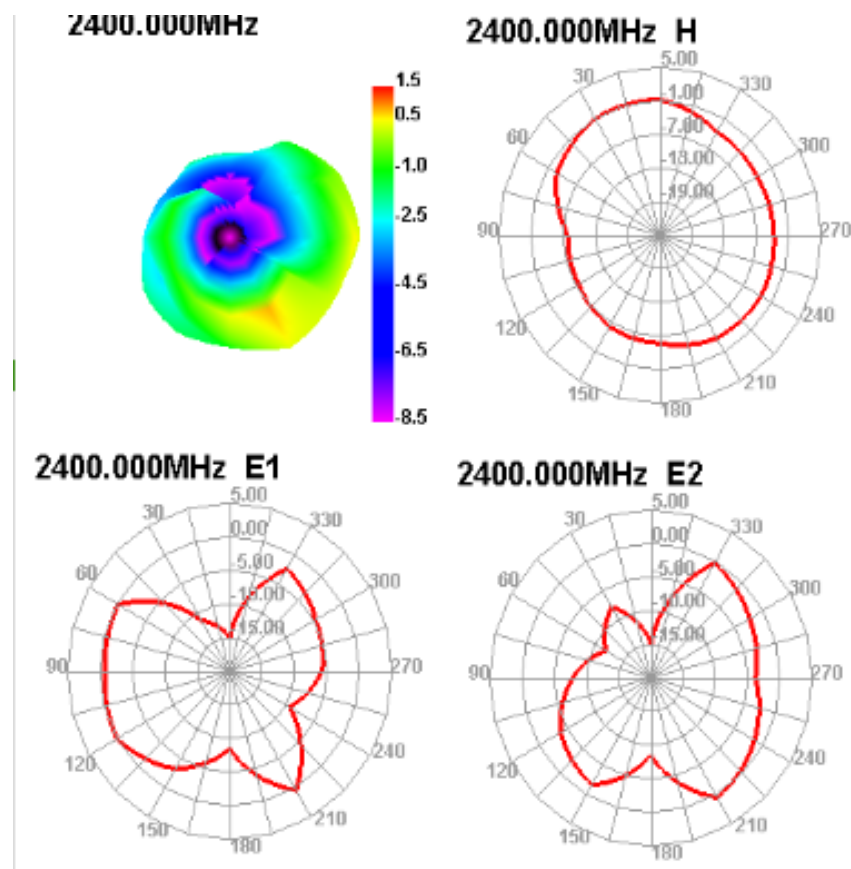
DRAWING



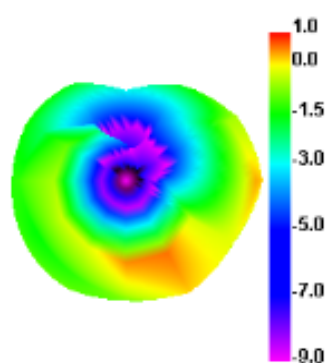
Test Data

Freq (MHz)	Effi (%)	Gain (dBi)
2400	51.42	1.46
2410	51.92	1.6
2420	61.93	2.52
2430	57.1	2.24
2440	52.95	1.79
2450	45.72	1.02
2460	41.32	0.54
2470	48.36	1.04
2480	45.24	0.77
2490	57.72	1.85
2500	51.87	1.53

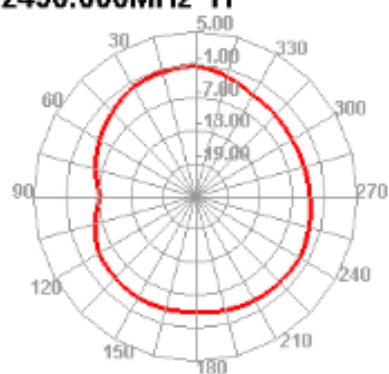
3D Direction Map



2450.000MHz



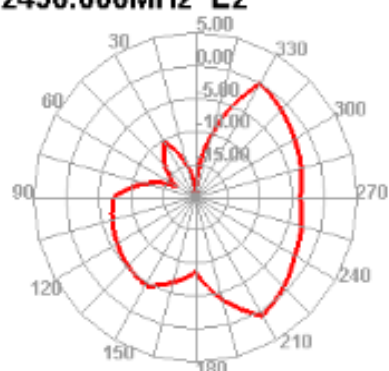
2450.000MHz H



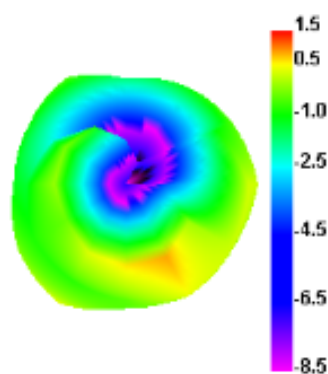
2450.000MHz E1



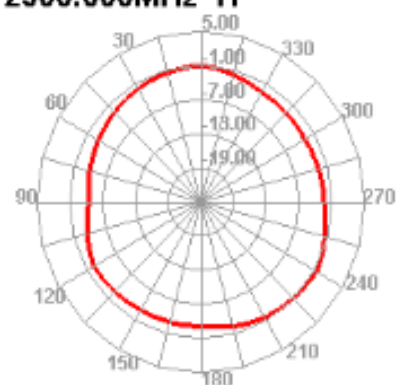
2450.000MHz E2



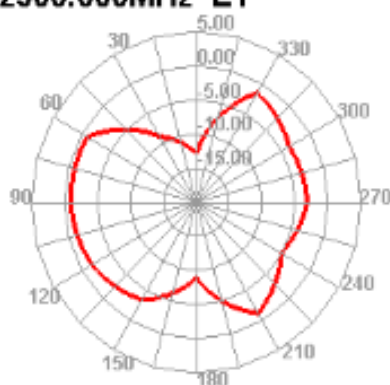
2500.000MHz



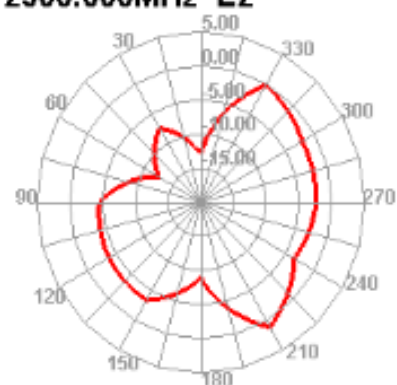
2500.000MHz H



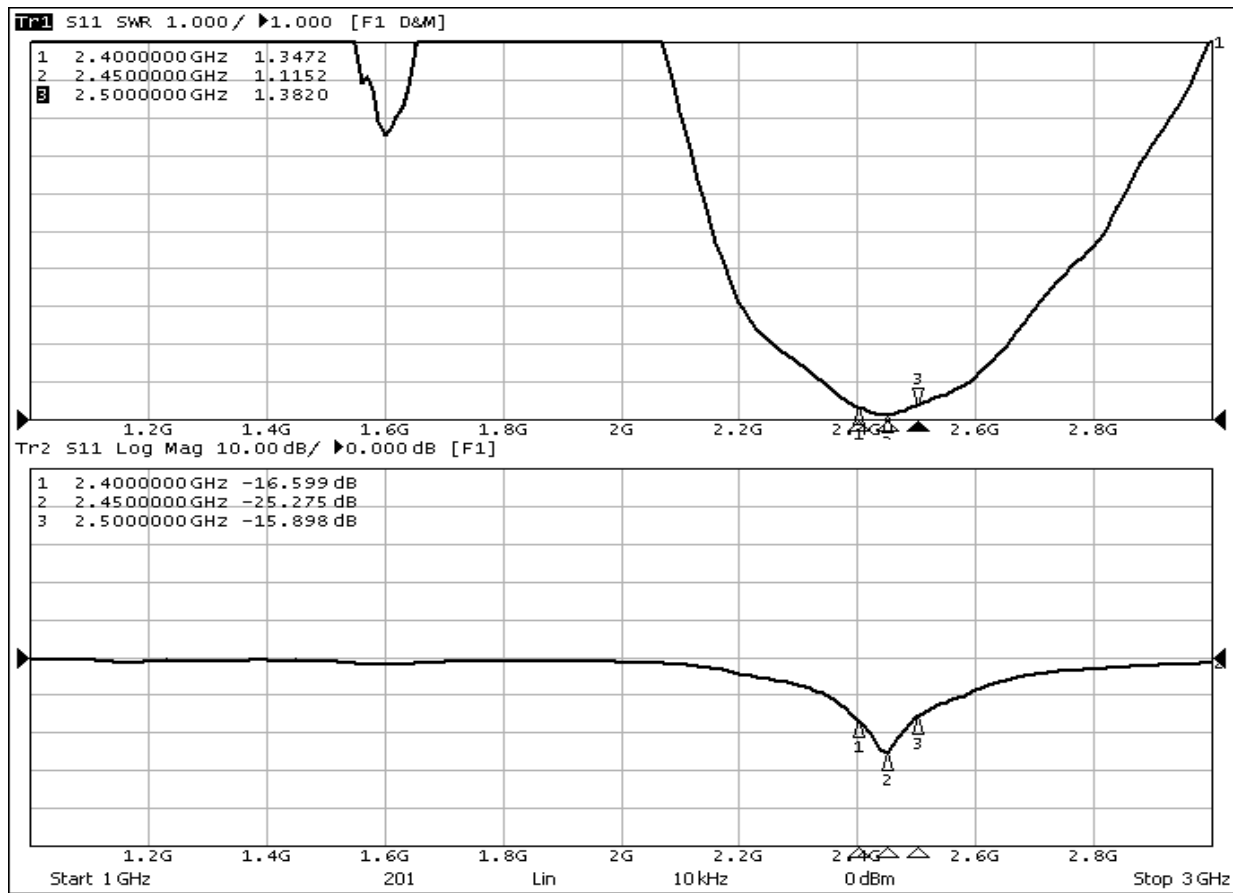
2500.000MHz E1



2500.000MHz E2



Passive Standing Wave



Antenna Assembly Position

