

The Main Antenna Sample Confirmation

Customer			
Project Name	BL-2077		Date 2024-12-24
Project NO.	SN1271	Notes	coaxial line+ FPC
Frequency Range	BT:2400-2500MHz		
Designed By	RF Engineer	Structural Engineer	
Checked By	Engineering Manager		
Client' s Approval			

Designer: SINAWELL Electronics(Shenzhen) Co., Ltd.

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1. Specification description

This specification describes the status of the BL-2077 internal antenna with a frequency band of BT.

2. Antenna appearance



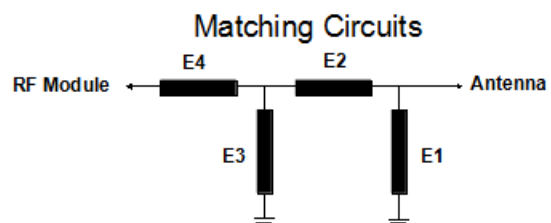
3. Electrical performance

3.1. Antenna band

BT: 2400-2500MHz

3.2. Matching Circuit

Element	Value
E1(0201)	NC
E2(0201)	0 Ω
E3(0201)	NC
E4	0 Ω



3.3. Return Loss



3.4. antenna passive test data

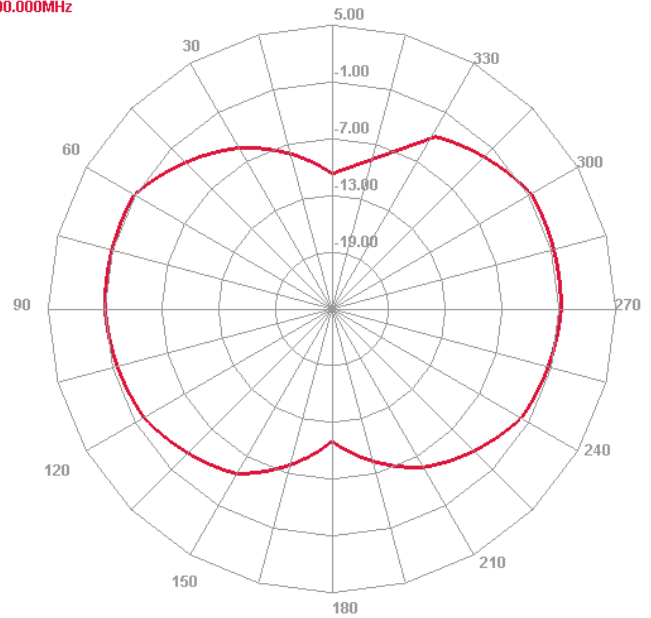
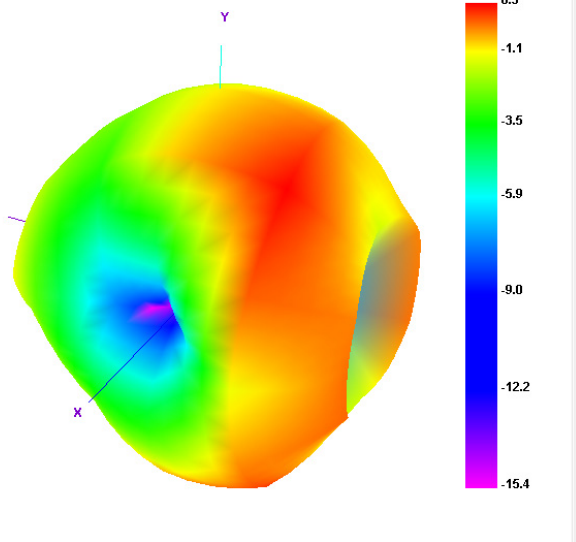
Passive Test			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	58.5	-2.33	0.49
2410	56.38	-2.49	0.14
2420	55.88	-2.53	0.23
2430	55.67	-2.54	0.2
2440	50.81	-2.94	-0.34
2450	50.36	-2.98	-0.58
2460	51.1	-2.92	-0.69
2470	50.08	-3	-0.87
2480	55.83	-2.53	-0.33
2490	56.4	-2.49	-0.08
2500	56.41	-2.49	0.01

3.5. Field intensity pattern

Horizontal

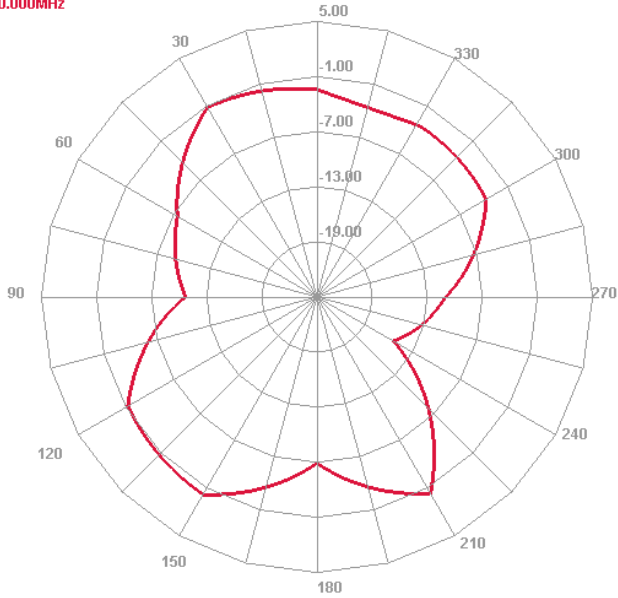
2400.000MHz

2400.000MHz



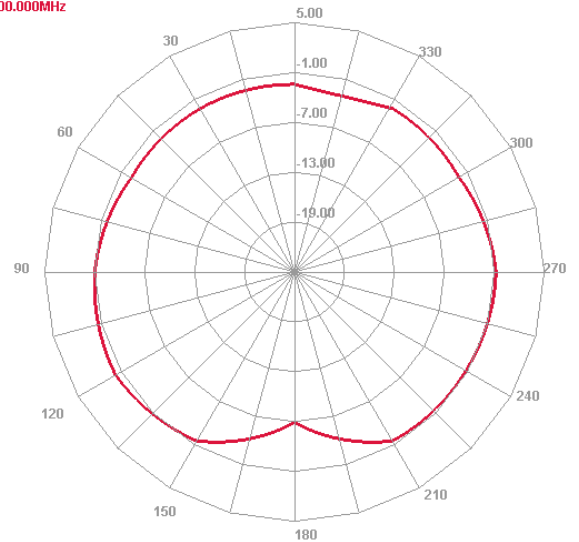
E1 Face

2400.000MHz

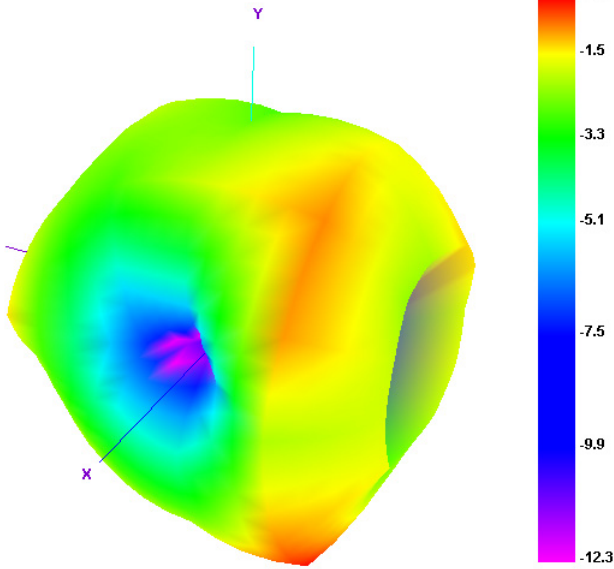


E2 Face

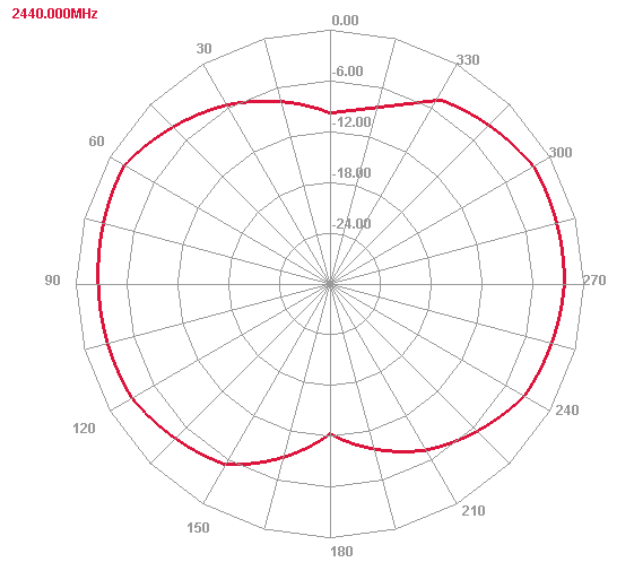
2400.000MHz



2440.000MHz

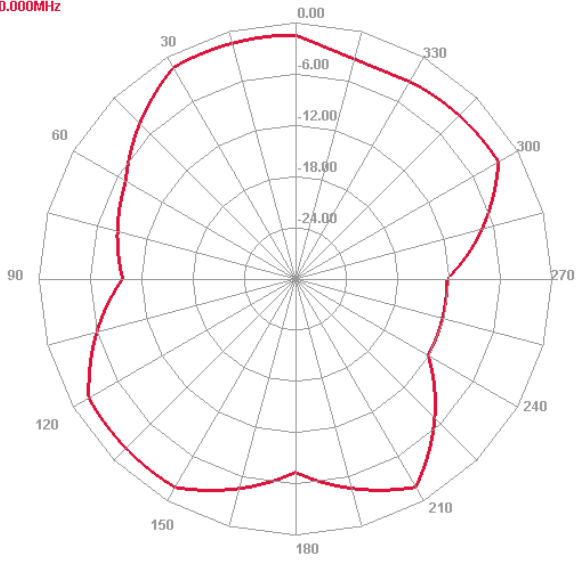


Horizontal



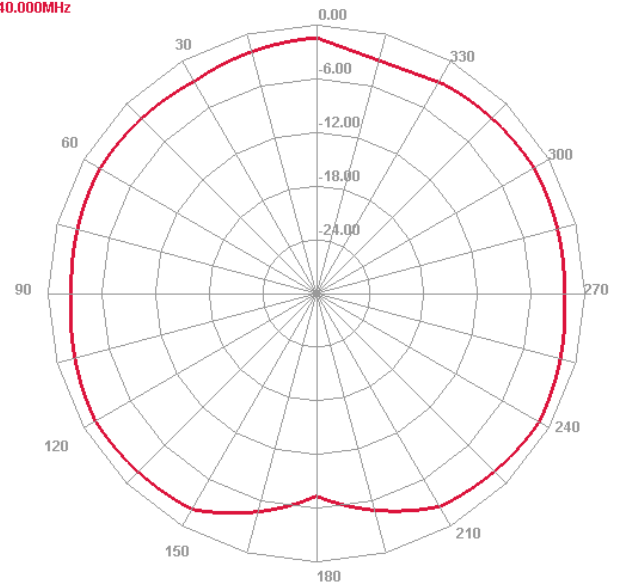
E1 Face

2440.000MHz

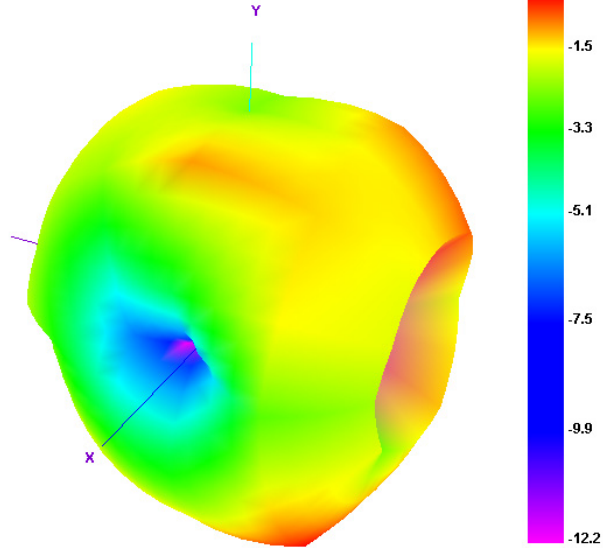


E2 Face

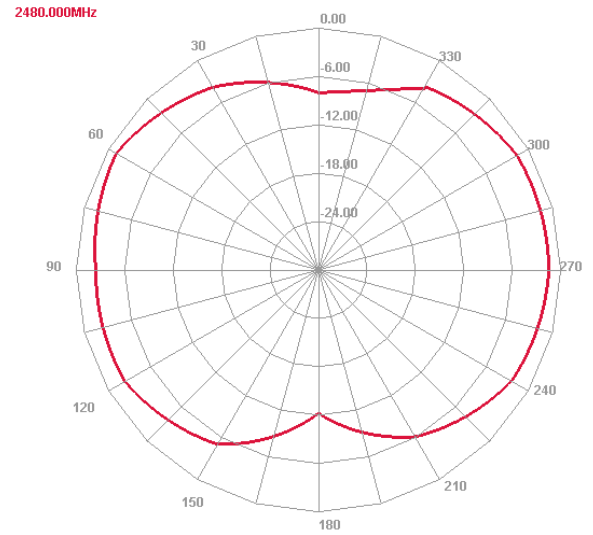
2440.000MHz



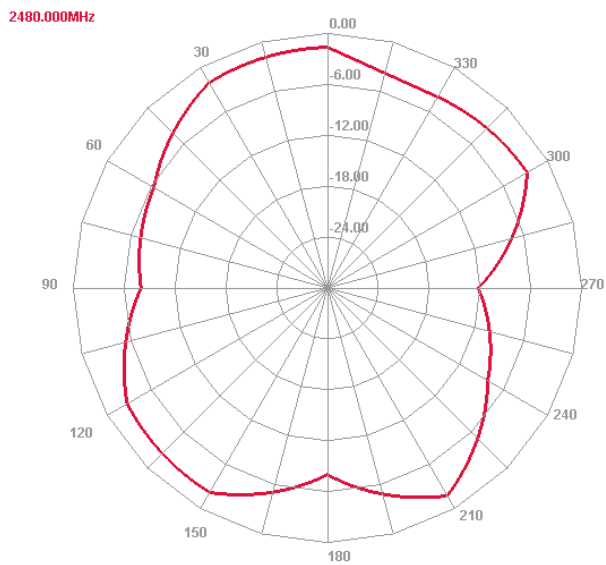
2480.000MHz



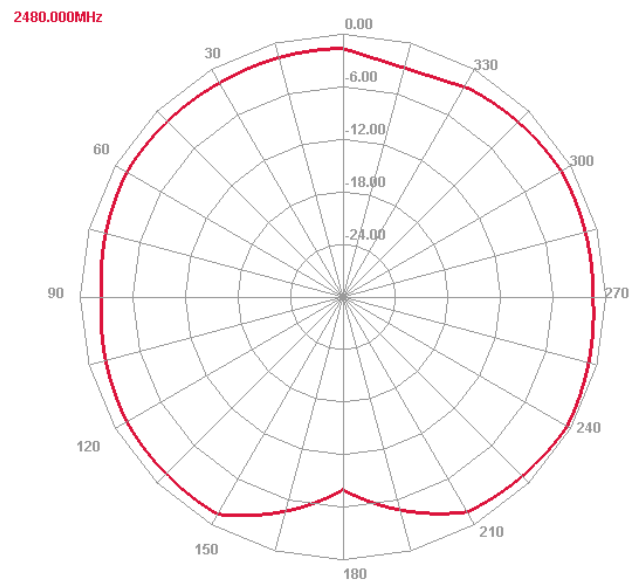
Horizontal



E1 Face



E2 Face



4. Structural Drawing

