

The Main Antenna Sample Confirmation

Project Name	FT68		Date	2026-08-06
Project NO.	SN1011	Notes	Metal Frame	
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 FT68 internal antenna with a frequency band of BT.

2. Electrical performance

2.1. Antenna band

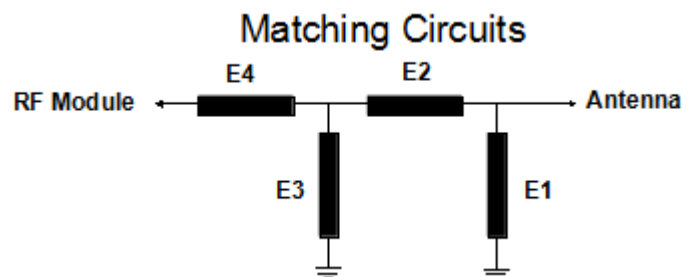
	BT
Transmitting band(MHz)	2400MHz-2500MHz

2.2. Matching Circuit

After the test point is at the antenna connector (RF test port), see the figure below.

1. antenna matching。

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

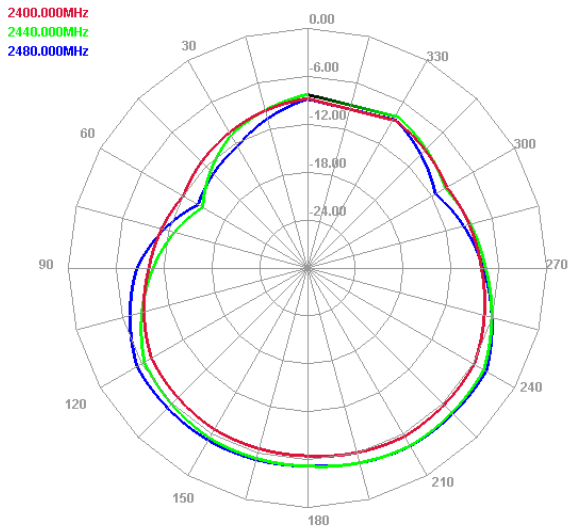


2.3. passive test data

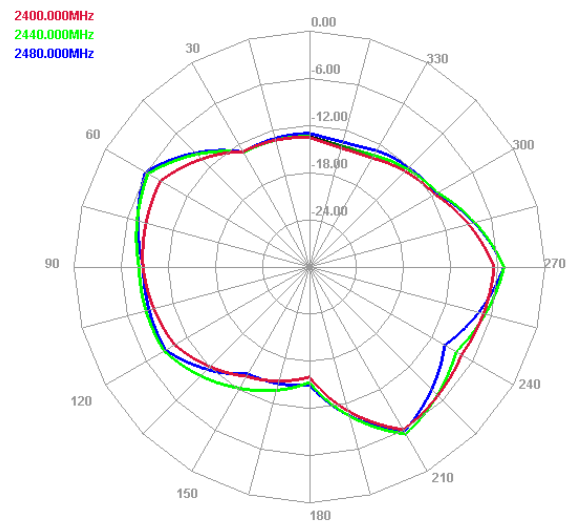
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	12.51	-9.03	-5.65
2410	12.48	-9.04	-5.34
2420	12.85	-8.91	-4.97
2430	12.95	-8.88	-4.74
2440	14	-8.54	-4.29
2450	14.41	-8.41	-4.07
2460	14.4	-8.42	-4
2470	13.63	-8.65	-4.2
2480	13.55	-8.68	-4.13
2490	13.53	-8.69	-4.06
2500	13.69	-8.64	-4.02

2D Pattern

Horizontal

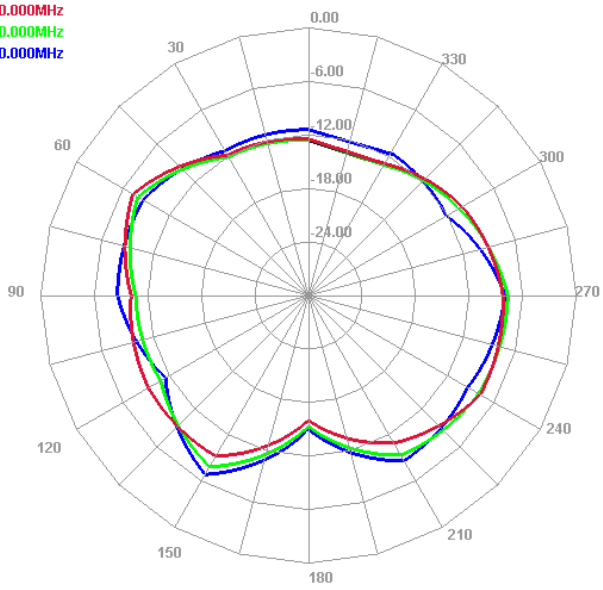


E1 Face



E2 Face

2400.000MHz
2440.000MHz
2480.000MHz



3.Structural Drawing

