

The Main Antenna Sample Confirmation

Customer			
Project Name	A1665-L	Date	2026-9-22
Project NO.	SN1605-BT-L	Notes	FPC
Frequency Range	2400MHz-2480MHz		
Designed By	RF Engineer	Structural Engineer	
Checked By	Engineering Manager		
Client' s Approval			

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1. Specification description

This specification describes the status of the **A1665-L** internal antenna with a frequency band of **2400MHz-2480MHz**

2. Antenna appearance



3. Electrical performance

3.1. Antenna band

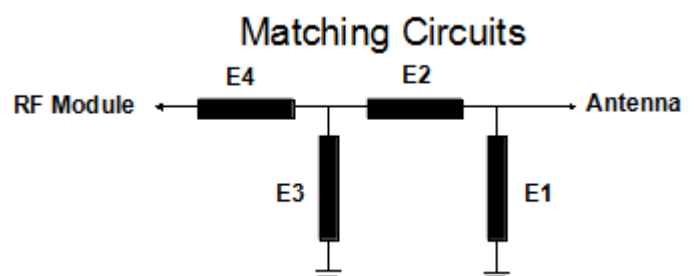
	BT
Transmitting band(MHz)	2400MHz-2480MHz

3.2. Matching Circuit

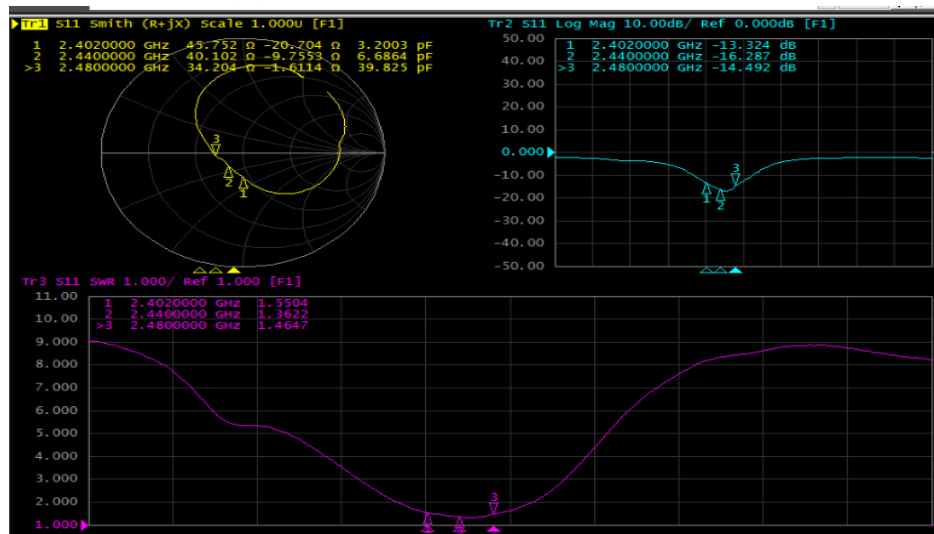
After the test point is at the antenna connector (RF test port), see the figure below.

1. antenna matching。

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



3.3. Return Loss



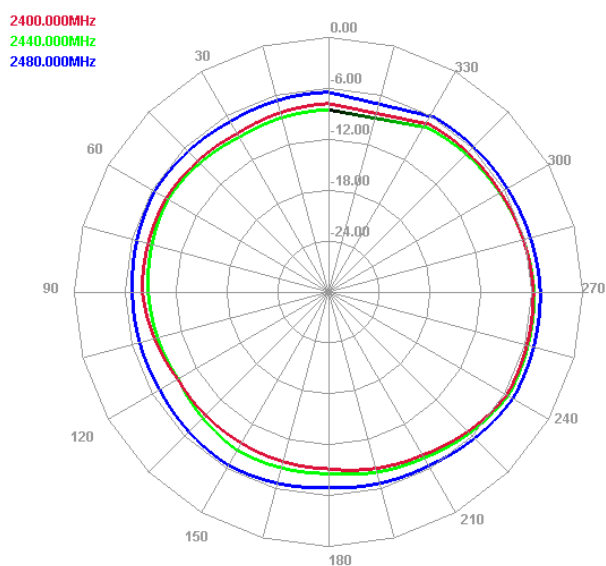
3.4. passive test data

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	18.73	-7.28	-2.7
2410	18	-7.45	-2.54
2420	17.69	-7.52	-2.71
2430	18.66	-7.29	-2.57
2440	18.1	-7.42	-2.41
2450	18.78	-7.26	-2.37
2460	20.18	-6.95	-2.43
2470	19.68	-7.06	-2.51
2480	20.58	-6.87	-2.46
2490	18.55	-7.32	-2.38
2500	19.74	-7.05	-2.49

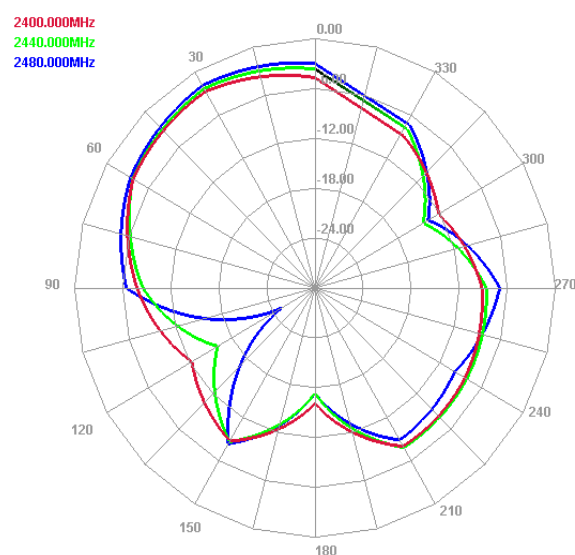
3.5. Field intensity pattern

2D Pattern

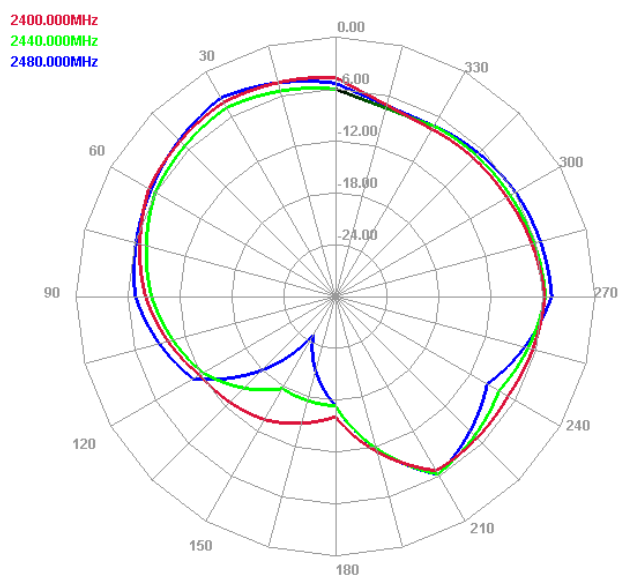
Horizontal



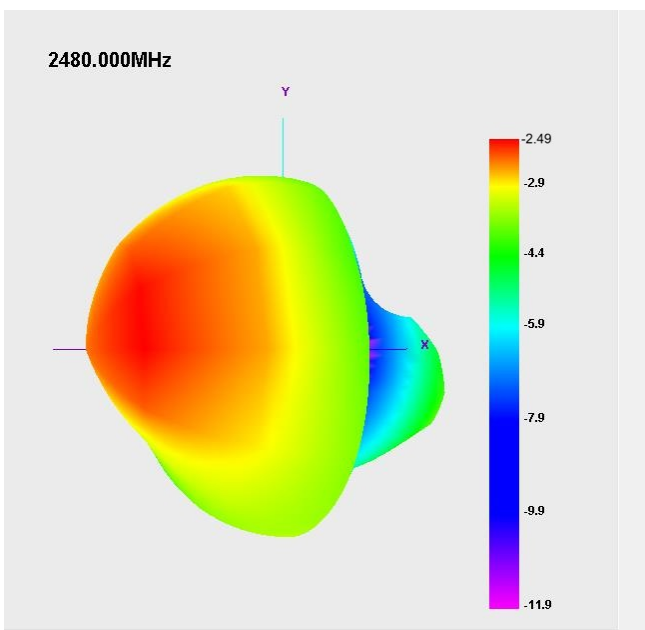
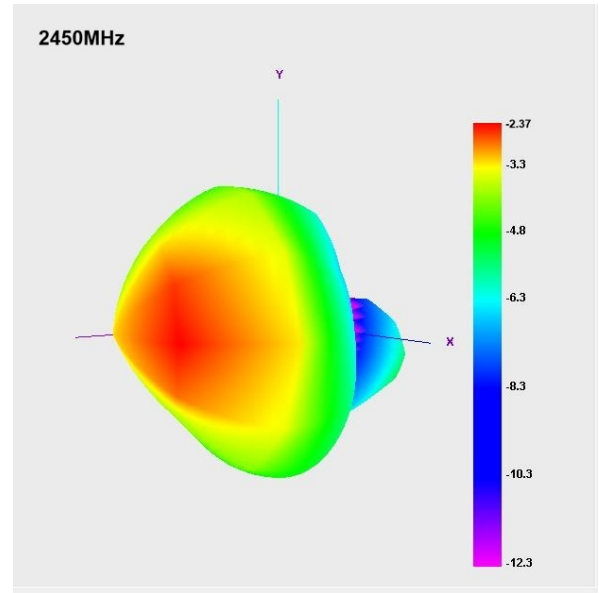
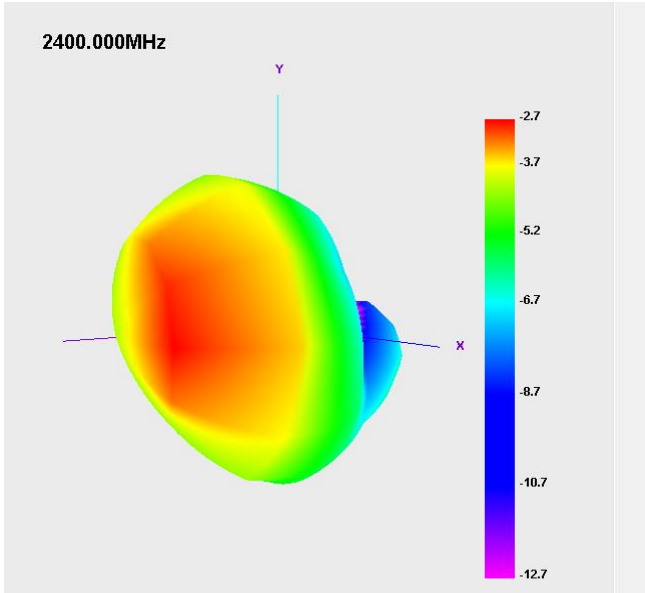
E1 Face



E2 Face



3D Patter



4.Structural Drawing

