

# SPECIFICATION

## APPLICATION FOR APPROVAL

**PART NAME :** 2.4G ANTENNA  
**DATE :** 2023/08/02

Release : Full release

Customer Approval	
Program Manager	R & D director
刘冬季 (Dongji.Liu)	刘冬季 (Dongji.Liu)
Supplier Approval	
Program Manager	R & D director
郝井强(Jingqiang Hao)	孙高鹤(Gaohe Sun)

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Tianjin

### REVISION

REV.NO.	DATE	DESCRIPTION
0	2023/08/02	APPROVAL

## 1. ELECTRICAL SPECIFICATIONS

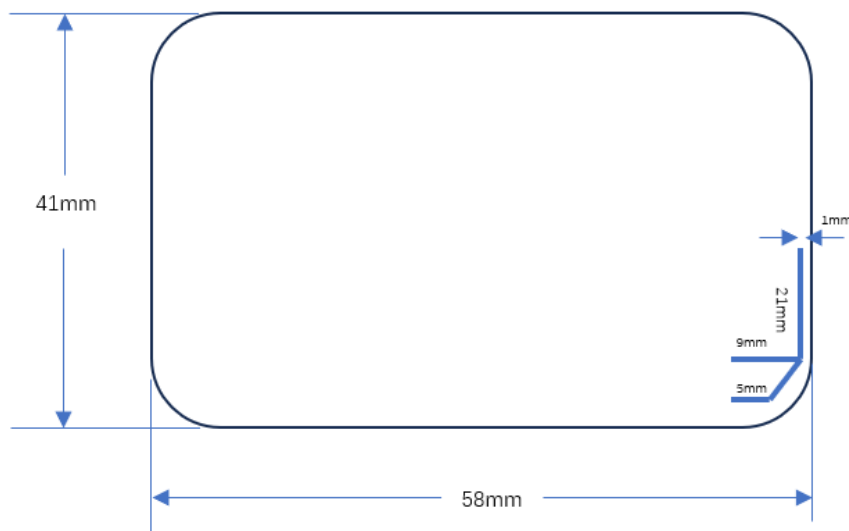
### 1-1 FREQUENCY BAND

Freq. Band	Freq.(MHz)
2.4GHz	2400-2500MHz

### 1-2 IMPEDANCE

Nominal Impedance(including matching circuit) : **50** ohms

### 1-3 Antenna Location and Parameter

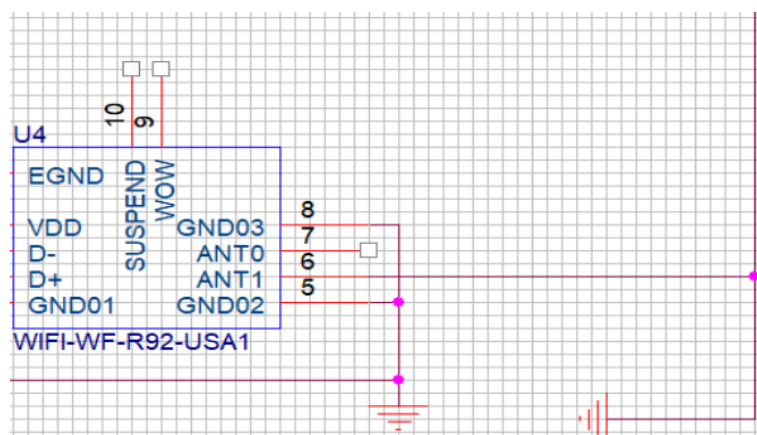


### 1-4 IMPEDANCE

The circuit on the PCB of the handset is according to Figure 1-4.

Optimum circuit is highly dependent on the handset and thus.

Final matching circuit layout and values will be defined when handset is available



Customer No: Tiandy Technologies Co., Ltd	<i>File: 2023/08/02</i>
Test Condition: FREE SPACE	Note: Gain
Confirmation: Jing Qiang Hao	Engineer: GaoHe Sun

## **2.ENVIRONMENTAL CHARACTERISTICS**

NO.	ITEM	TEST CONDITION
1	Normal condition	1.Temperature: 25.1±1℃ 2. Humidity: 34%±2% 3. Pressure: 100.9KPa

## **3. Test equipment**

Equipment	Model No	Manufactory	Series No
ENA vector analyzer	E5071C	Keysight	MY46900684
OTA chamber	FT-0024	FEITU	FS20200302

## **4. PACKAGING**

Antenna is PCB type , packaging with PCB board.

## **5. APPENDIX**

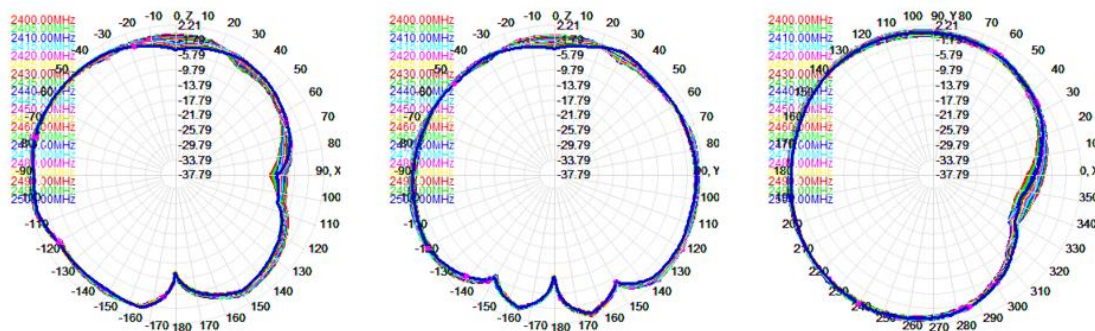
Antenna Gain is shown as the attached files.

## Antenna Test Date

### 一：Antenna Efficiency&PeakGain

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-1.47	1.47	71.21
2405.0	-1.40	1.57	72.45
2410.0	-1.19	1.81	75.96
2415.0	-1.03	2.01	78.81
2420.0	-0.98	2.09	79.74
2425.0	-0.94	2.17	80.57
2430.0	-0.91	2.21	81.16
2435.0	-0.85	2.26	82.25
2440.0	-0.82	2.29	82.70
2445.0	-0.80	2.35	83.25
2450.0	-0.76	2.42	84.01
2455.0	-0.74	2.46	84.39
2460.0	-0.69	2.52	85.23
2465.0	-0.70	2.50	85.14
2470.0	-0.76	2.42	83.97
2475.0	-0.80	2.32	83.20
2480.0	-0.95	2.12	80.41
2485.0	-1.11	1.91	77.43
2490.0	-1.12	1.86	77.29
2495.0	-1.12	1.88	77.18
2500.0	-1.22	1.84	75.50

### 二：Antenna 2D-XZ/YZ/XY



### 三: Antenna 3D (2400MHz,2440MHz,2480MHz)

