

深圳市肯特新工业技术有限公司

Shenzhen Kent new industrial Technology Co., LTD

508, Building C, Liantangkeng Industrial Zone, Fenghuang Gang Community, Xixiang Street, Baoan District, Shenzhen

承認書

SPECIFICATION FOR APPROVAL

客 戶： 创凌智联

Customer

项目名： TD8800M80

Project

品 名： WIFI /BT ANT

Description

料 號： W3106N-F1R1B-065-U-G

Part Number

日 期： 2025 年 01 月 14 日

Date Year Month Day

承認人簽章

Signature

Contact: 18688745790

TEL:+86-755-23025852

1. Electrical Specification :

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±1 X.X=±0.1 X.XX=±0.01

ANGLES=± HOLE DIA=±

SCALE :

UNIT : mm

DRAWN BY : 张行星

CHECKED BY : 王浩

DESIGNED BY : 李谋月

APPROVED BY : 易珂湘

TITLE : W3106N-F1R1B-065-U-G Specification



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KINTER NEW INDUSTRIAL TECHNOLOGY CO., LTD

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Those specifications were specially defined for 创凌智联 TD8800M80 WIFI model, and all characteristics were measured under the model's handset testing jig .

1-1. Frequency Band:

Frequency Band	MHz
Wi-Fi	2400-2500/5150-5850

1-2. Impedance

50 ohm nominal

2. VSWR

2-1 Measuring Method

1. A 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR;
2. Keeping this jig away from metal at least 20cm.

2-2 Measurement frequency points and VSWR value

Frequency (MHz)	2400	2500	5150	5850
VSWR	1.23	1.21	1.83	2.67
Frequency (MHz)	2400	2500	5150	5850
VSWR	1.12	1.28	1.18	2.32



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3. Efficiency and Gain

- 量测仪器: 微波暗室, Agilent 网络分析仪, Agilent 频谱分析仪, 8960 综合测试仪, 标准天线。
- 微波暗室说明:

这是本公司设置在深圳的微波暗室, 本微波暗室是属于一套远场量测系统,暗室的大小为 5.0 米 x3.0 米 x3.0 米 , 静区尺寸(Quiet zone)大小为 15 厘米 x15 厘米 x15 厘米。

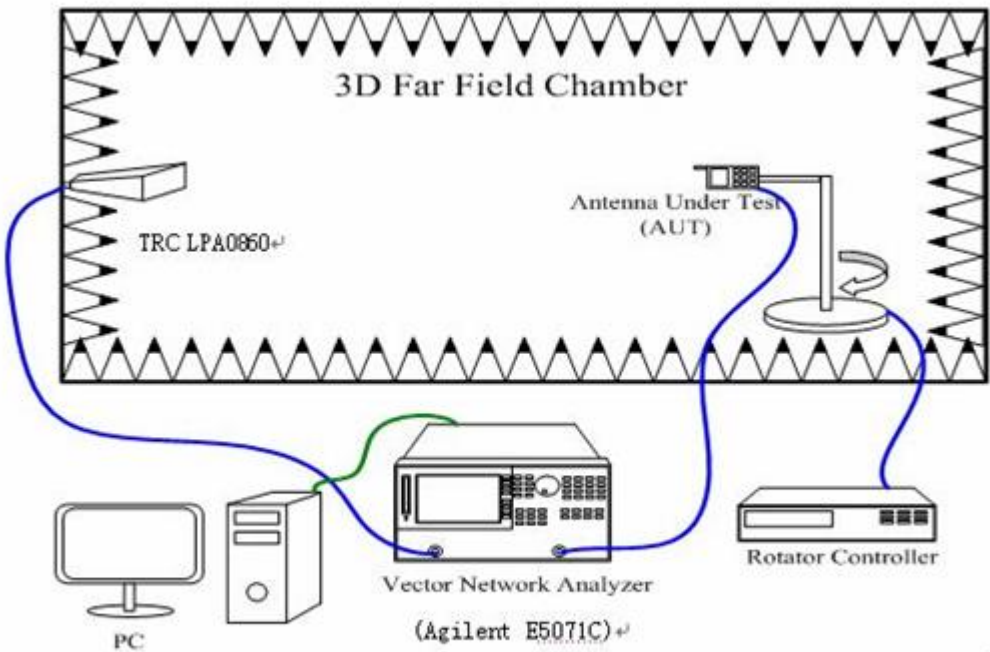


图. 1. 微波暗室内仪器设置 r.

图. 1 为微波暗室内的仪器设置及网络分析仪的联接图, 发射天线(0.8-6.0GHZ for Gain Calibration)到待测天线(AUT)的距离为 3.0 米, 待测天线放置在旋转平台上,藉由控制转台旋转的角度可对待测天线做概略性及较为准确的量测。

将待测天线放置于旋转台上,并测得其各个平面(ZY 平面及 ZX 平面)的 360 度场强数据。再将待测天线换置成标准偶极天线将其 360 度的场强数据测出, 以作换算增益标准值, 经由式 1 的换算即可获得待测天线的增益值及方向图。

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3-1 Measuring Method

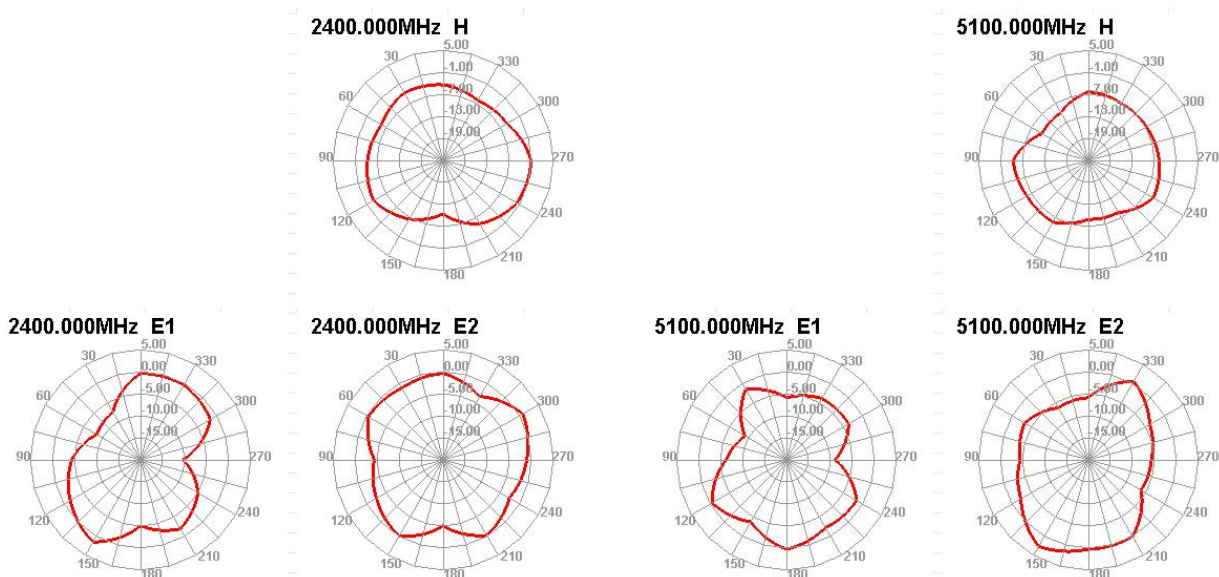
1. Using a low loss coaxial cable to link a standard handset jig,
2. Fixed this handset jig on chamber's rotator plane,
3. Linking jig into network analyzer port and using a probing horn antenna to collect data,
4. Using another standard gain horn antenna to calibrated those data.

3-2 Efficiency and Gain Value

Passive Test For 2.4G		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	57.88	1.8
2410	59.65	1.79
2420	57.77	1.64
2430	59.45	1.72
2440	63.92	1.97
2450	68.91	2.08
2460	69.71	2.04
2470	70.54	1.92
2480	72.32	2.09
2490	74.63	2.24
2500	72.28	2.19

Passive Test For WIFI		
Freq (MHz)	Effi (%)	Gain (dBi)
5100	49.03	2.66
5200	49.26	2.98
5300	47.78	2.84
5400	51.64	3.16
5500	38.14	2.17
5600	38.53	2.09
5700	47.42	2.08
5800	56.51	2.1

3-3 3D Pattern



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4.Product Overview & Dimension:



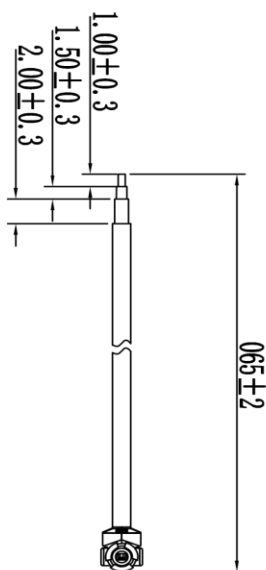
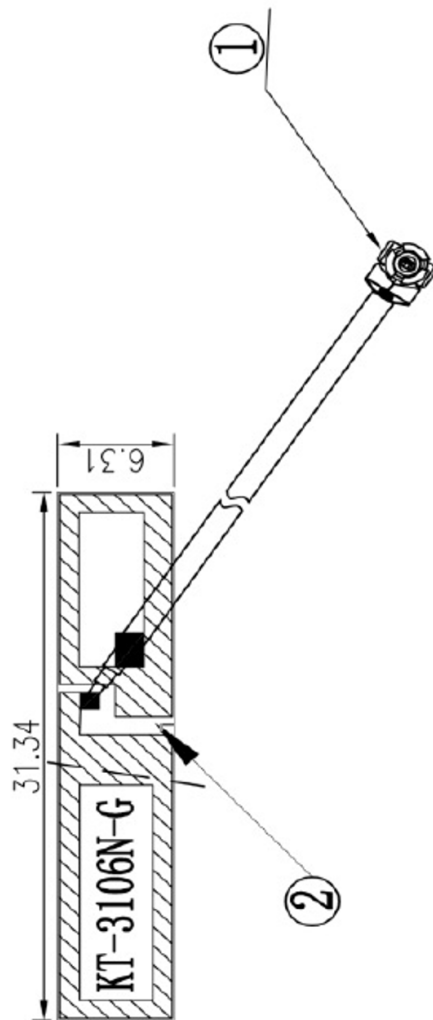
天线贴装位置如图示

5. Mechanical Specification:

Mechanical Configuration (Unit: mm)

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- 技术要求:
- 1.绿色阴影部分为电路,黄色部分为漏焊接点
 - 2.表面黑油,基材采用PI,电解铜,天线总厚度为0.12±0.03mm(不含离型纸),3M300胶纸;
 - 3.打*为重点尺寸公差±0.05;
 - 4.所有材料符合环保ROHS标准。

DIM	TOL	DIM	TOL
X.X	±0.25	X.X	±5.0°
X.XX	±0.20	X.XX	±3.0°
X.XXX		X.XXX	±1.0°

DRAW NO.		DATE		DRAW NAME: W3106N-FB1-A	
DESIGN:		FILE:		P/N NO:	
CHECK:		QTY:		DRAWING NO:	
APPROVED:		SCALE: 1:1		UNIT: mm	
		REV. A		SCALE N/A	
				SHEET: N/A	

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