

深圳市肯特新工业技术有限公司

ADD: Room 508, Building C, Liantang Keng Industrial Zone, Fenghuanggang Community,
Xixiang Street, Bao'an District, Shenzhen

承認書

SPECIFICATION FOR APPROVAL

客 戶： 华芯智影

Customer

项目名： HX230DLMT

Project

品 名： WIFI 天线

Description

料 號： HX230DLMT-双频-F8R0B-125

Part Number

日 期： 2025 年 03 月 24 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 : 李元豪

APPROVED BY : 易珂湘

TITLE : HX230DLMT-双频-F8R0B-125 Specification



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KINTER NEW INDUSTRIAL TECHNOLOGY CO., LTD

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DOCUMENT
NO.

PAGE REV.
P0

Those specifications were specially defined for 华芯智影 HX230DLMT 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	1.37	2.39	4.83	3.00



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P0

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。

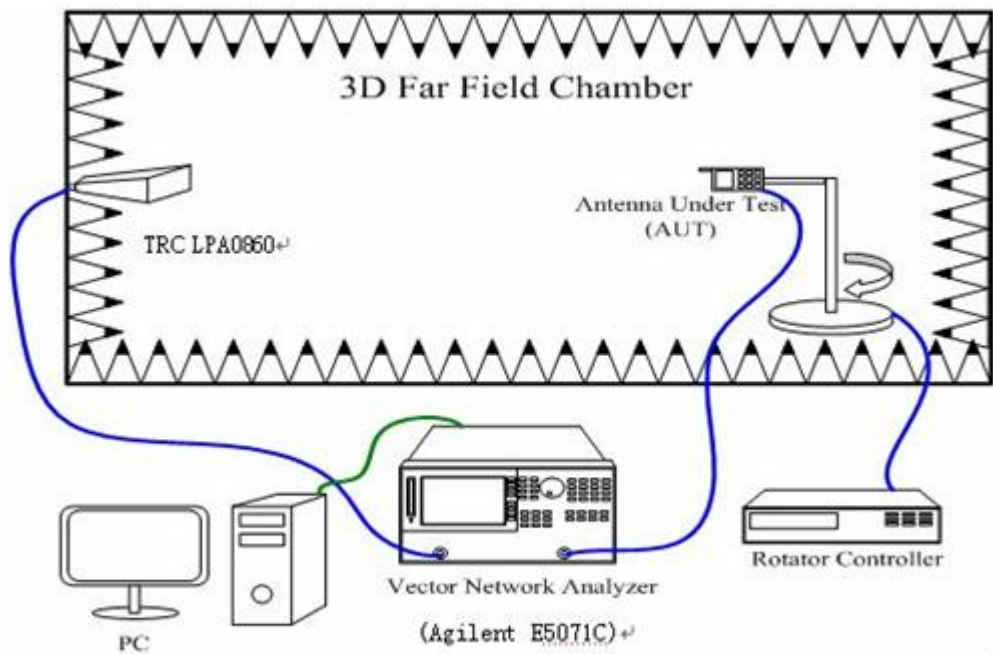


图. 1. 微波暗室内仪器设置 r.↵

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。

3-1 Measuring Method

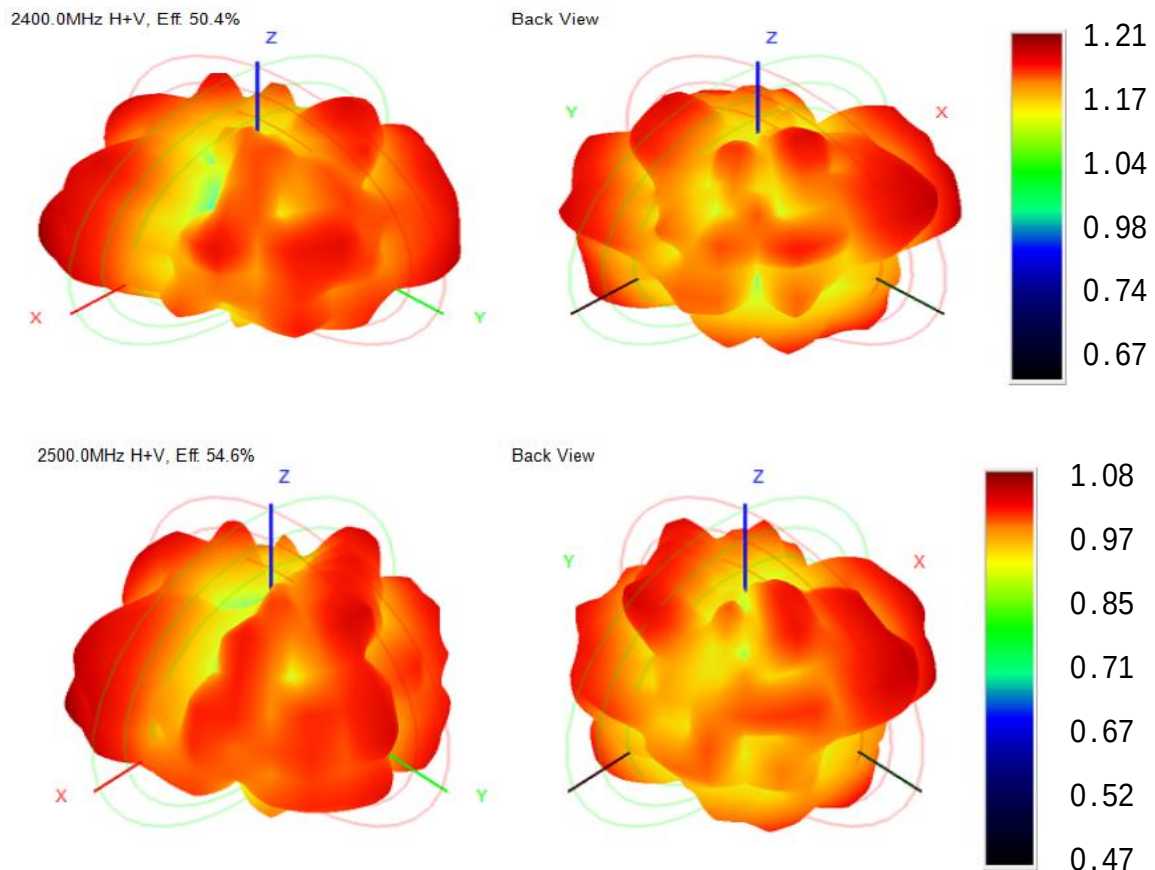
1. Using a low loss coaxial cable to link a standard handset jig,
2. Fixed this handset jig on chamber’s rotator plane,
3. Linking jig into network analyzer port and using a probing horn antenna to collect data,
4. Using another standard gain horn antenna to calibrated those data.

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		PAGE 3 OF 5	

3-2 Efficiency and Gain Value

Frequency (MHz)	Efficiency (%)	Average GAIN (dB)	Peak GAIN (dBi)
2400	45.1%	-3.04	1.21
2500	43.7%	-3.34	1.08
5150	41.2%	-3.63	1.11
5850	43.2%	-3.40	1.16

3-3 3D Pattern



4. Mechanical Specification:

Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure 4-1

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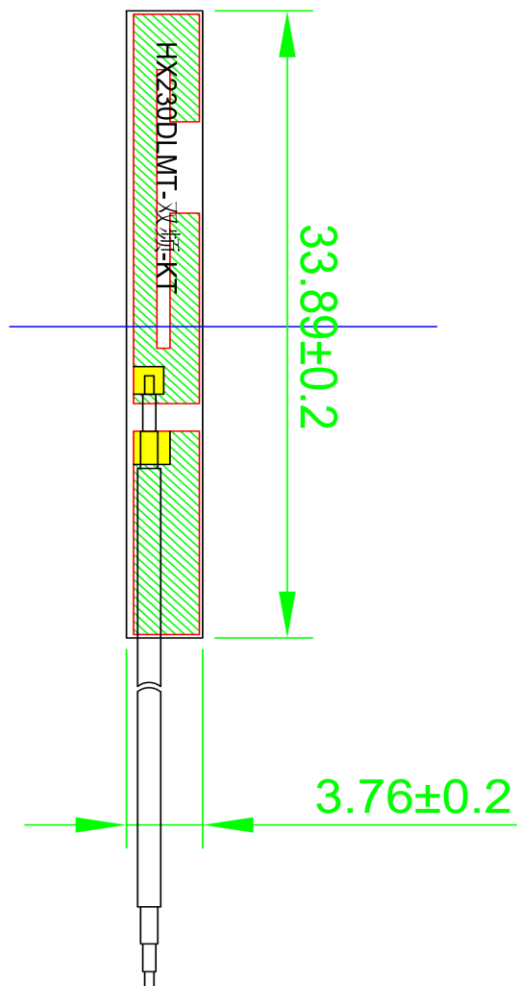
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DOCUMENT NO.

PAGE REV.
P0

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背面离型纸断开线

125±2

天线焊接端

模块焊接端



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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走线部分;
 - 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);
 - 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.	±0.3	X.	±5.0°
X.X	±0.2	X.X°	±4.0°
X.XX	±0.05	X.XX°	±3.0°
X.XXX		X.XXX°	±2.0°

DRAW NO.	DATE	DRAW NAME:	P/N NO:
LTH	25/01/13	HX230DLMT-双频-KT	
DESIGN:	FILE:	DRAWING NO:	
CHECK:	QTY:	SCALE: 1:1	
APPROVED:	REV. A	SCALE N/A	
		UNIT: mm	SHEET: N/A

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