

**SPECIFICATIONS
FOR
APPROVAL**

客户: 朝陽電子(深圳)有限公司
(CUSTOMER) Zylux Elec.(ShenZhen)Co.,Ltd

型号: IA.0410.2FI

本产品不含危害物质,符合HSF要求
(PART NO.)

器件耐熱等級 : 80° 单重: 0.51g

焊錫時間 : 3S

品牌: KINGRF

(BRAND)

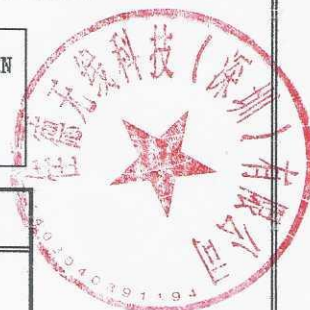
朝陽料号: 1029-0000176

日期:
(DATE) 2022/9/28

提供人:
(SALESMAN) Lenapeng

| | |
|--|--|
| <input checked="" type="checkbox"/> 环保要求 | 料件之所有组成物质,必须遵守有害物质要求: <input type="checkbox"/> HALOGEN <input checked="" type="checkbox"/> FREE无卤 <input checked="" type="checkbox"/> RoHS 2.0 <input checked="" type="checkbox"/> REACH <input type="checkbox"/> PRO65 <input type="checkbox"/> CARB2 详细的有害物质管控限值 <input checked="" type="checkbox"/> Zylux QMI-P40-01 <input type="checkbox"/> <input type="checkbox"/> Samsung0qa-2049 <input type="checkbox"/> Sony SS-00259等 |
|--|--|

SIGNATURL OF APPROVAL



佳德无线科技(深圳)有限公司

深圳市福田区泰然六路苍松大厦北座601-602

TEL: 0755-33353180

FAX: 0755-33353180

IA.0410.2FI

Antenna Specification

1. Application:

This application shall apply for antenna unit which shall be used such as automotive, conventional communications, smart home, etc..

1. Electrical Specification:

Those specifications were specially defined for customer's model, and all characteristics were measured under the model's handset testing jig .

2-1. Frequency Band:

| Frequency Band | MHz |
|----------------|-----------|
| BT 2.4G | 2400-2500 |

2-2. Impedance

50 ohm nominal


2-3. VSWR

2-3-1.Measurement frequency points and VSWR value

| Frequency Band(MHz) | 2400 | 2500 |
|-----------------------|------|------|
| 2-3-3. Typical Value: | 1.43 | 1.15 |

2-3-2. VSWR

| Frequency Band(MHz) | 2400 | 2500 |
|-----------------------|------|------|
| 2-3-3. Typical Value: | ≤2 | ≤2 |

| | | | |
|--|------------------------|--|------------------------------------|
| UNLESS OTHER SPECIFIED TOLERANCES ON: X=± X.X=± X.XX=± ANGLES=± HOLEDIA=± | |  | KINGRF TECHNOLOGY CO., LTD. |
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| | |
|------------------------|--|
| 2-3-4 Measuring Method | <ol style="list-style-type: none"> 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 20 cm |
| 2-3-5 Picture | |

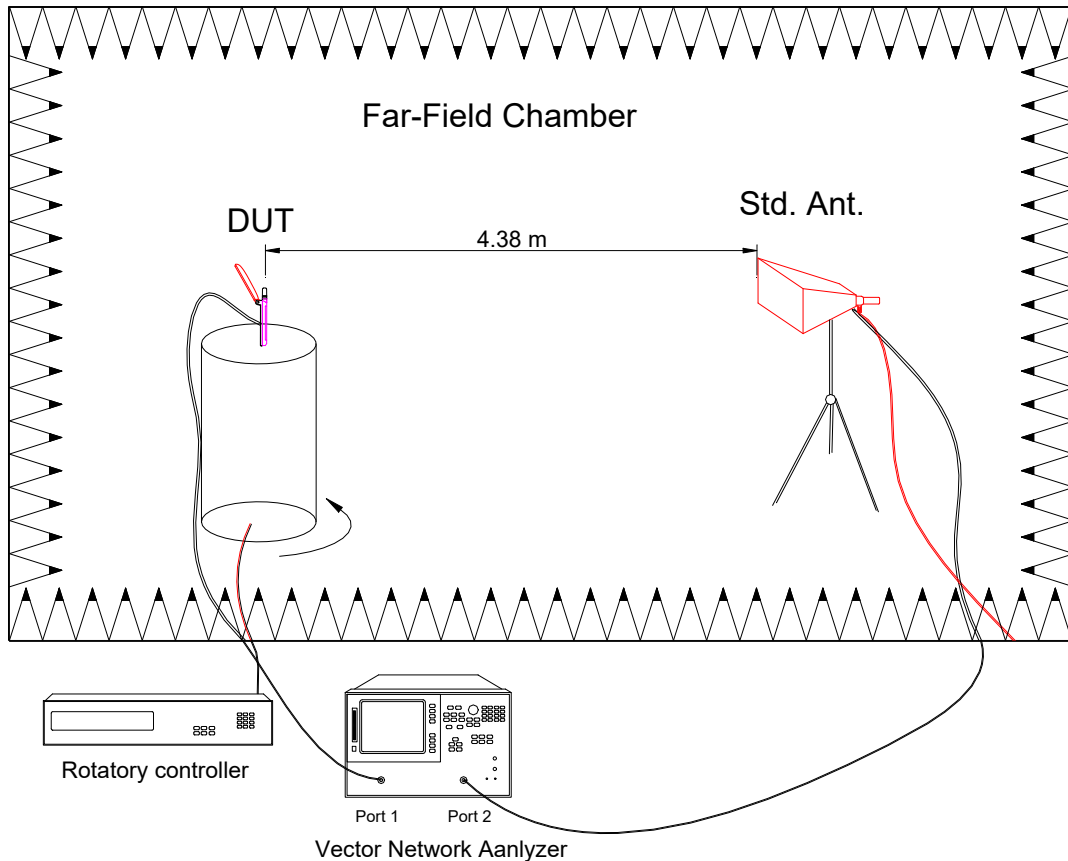
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2-4. Efficiency and Gain

4-5.1 Measure 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

4-5.2 Chamber definition



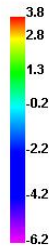
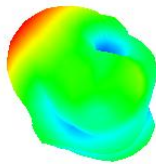
1. An anechoic chamber (7mx4mx3m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quite room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

| | | |
|--|------------------------|--|
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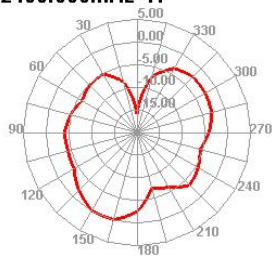
2-4-1 Efficiency and Gain

| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
|---------------|-------------|--------------|---------------|
| 2400 | 54.45 | -3.52 | 3.84 |
| 2410 | 51.71 | -3.8 | 3.59 |
| 2420 | 50.58 | -3.92 | 3.7 |
| 2430 | 49.15 | -4.07 | 3.55 |
| 2440 | 50.59 | -3.92 | 3.81 |
| 2450 | 47.11 | -4.31 | 3.45 |
| 2460 | 51 | -3.87 | 3.64 |
| 2470 | 46.44 | -4.38 | 2.98 |
| 2480 | 54.93 | -3.47 | 3.64 |
| 2490 | 56.8 | -3.3 | 3.7 |
| 2500 | 63.12 | -2.75 | 4.21 |

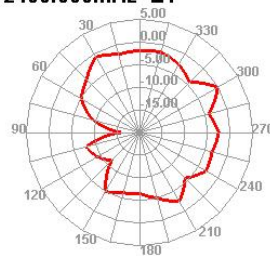
2400.000MHz



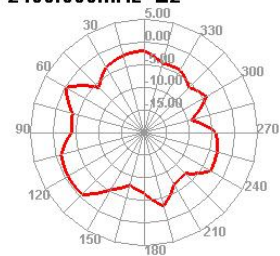
2400.000MHz H



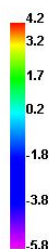
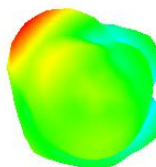
2400.000MHz E1



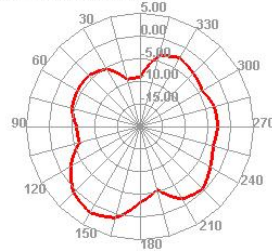
2400.000MHz E2



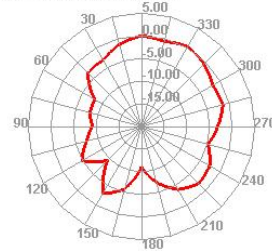
2500.000MHz



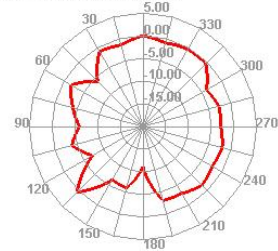
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



UNLESS OTHER SPECIFIED TOLERANCES ON:

 $X = \pm$ $X.X = \pm$ $X.XX = \pm$

 ANGLES = \pm HOLEDIA = \pm


KINGRF TECHNOLOGY CO., LTD.

SCALE:

UNIT: mm

DRAWN BY: LU

CHECKED BY: YS

DESIGNED BY: JINTIAN

APPROVED BY: YS

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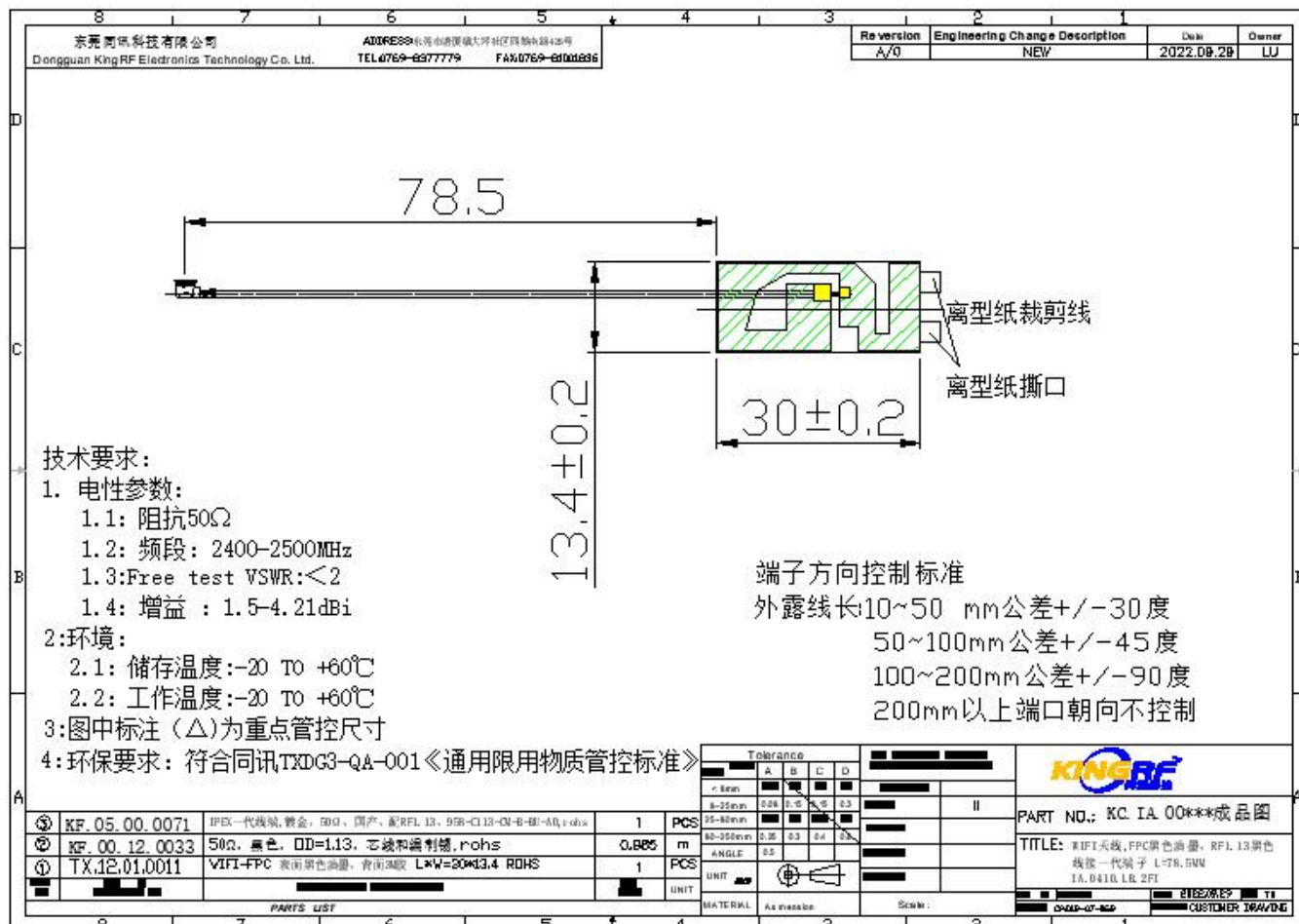
SPEC REV.

P0

3. Mechanical Specification:

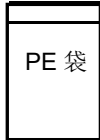
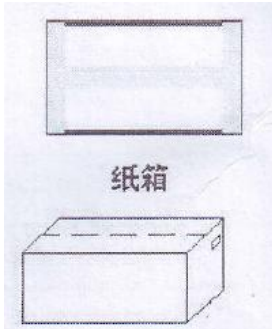
3-1. Mechanical Configuration (Unit: mm)


The appearance of the antenna is according to drawing



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5.包装规格:

| | | | |
|------------------------|---------|---|-------------|
| 产品料号: XXX | | | |
| 产品型号: XXX | | | |
| 一、标签要求: | | | |
| 需方 | XXX | | |
| 供方 | XXXXX | | |
| 物料编码 | XX | | |
| 产品型号 | XX | | |
| 数量/单 | XXX PCS | 出厂日期 | X 年 X 月 X 日 |
| 备注/其他 | | | |
| 二、装箱要求: | | | |
| 作业说明: | | | |
| 1. 内包装: | |  | |
| 产品 XXpcs 一袋, 放入小 PE 袋; | | | |
| 2. 外包装: | |  | |
| XxPCS 一箱; | | | |
| 3. 注意事项: | | | |
| a. 是否要增设隔板、珍珠棉; | | | |
| b. 标签的帖附, 如 ROHS 等; | | | |

| | | | |
|---|-----------------|--|------------------------------------|
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