

# HUEIZHOU DONZHI ELECTRONICS CO.,LTD

## Sample Confirmation Letter FOR APPROVAL

Customer Shenzhen Huayang'an Technology Co., Ltd.

Part NO. \_\_\_\_\_

Part Name Ultrasonic antenna

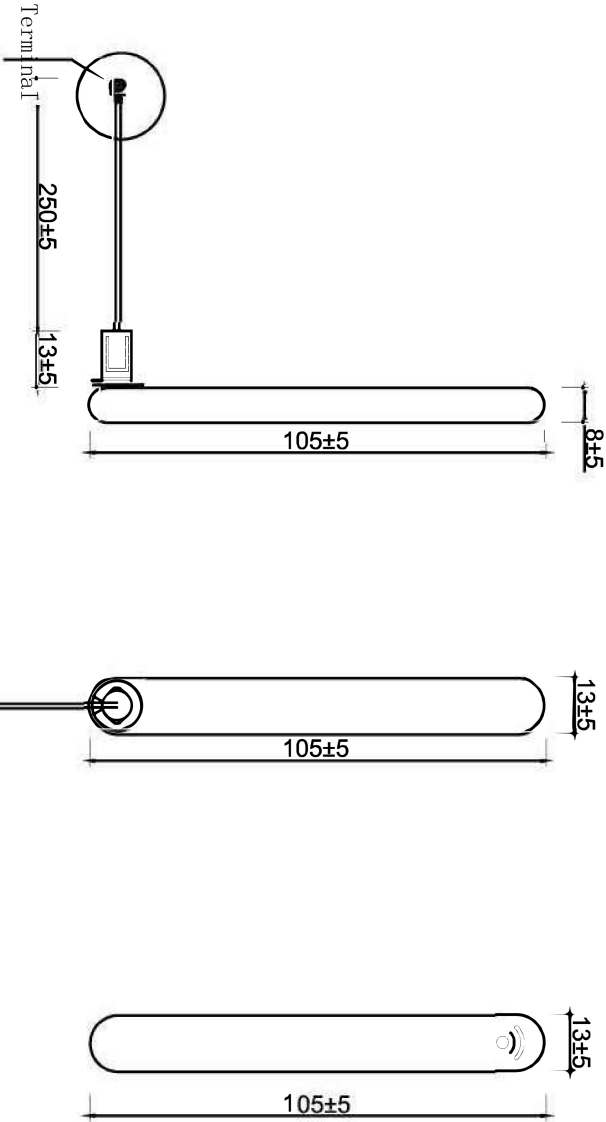
PartModels 2.4G-3DB-280MM

| Manufacturer confirmation column |                    |        |          |
|----------------------------------|--------------------|--------|----------|
| Confirmation stamp               | Design & Preparing | Review | Approval |
|                                  | Liu Haohua         |        |          |

| Customer confirmation column |         |        |          |
|------------------------------|---------|--------|----------|
| Confirmation stamp           | Testing | Review | Approval |
|                              |         |        |          |

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Email: hzdonzhi@163.com

| VERSION | Modified content | Date      |
|---------|------------------|-----------|
| V1.0    | New release      | 2023/4/15 |
|         |                  |           |



Technical requirements:

1. The plastic is intact
2. The wire cutting and ring stripping are neat
3. The pulling force is more than 3kg
4. The welding point is smooth and round

|                                |  |              |                     |              |          |           |            |                                       |      |
|--------------------------------|--|--------------|---------------------|--------------|----------|-----------|------------|---------------------------------------|------|
| No tolerance mark <b>±0.05</b> |  | Product name | Ultrasonic antenna  |              | Approval | LUOGUJIAN |            | HUEIZHOU DONGZHI ELECTRONICS CO., LTD |      |
| 5                              |  | ±0.05        | Frequency           | 2400~2500MHZ |          | Review    | LUOGUJIAN  |                                       |      |
| 25.01~50                       |  | ±0.10        | Impedance           | 50Ω          |          | Design    | LITUHAOHUA |                                       | View |
| 50.01~100                      |  | ±0.15        | Standing-wave ratio | 51.2dB       |          | Version   | V1.0       |                                       | date |
| 100.01~200                     |  | ±0.25        | Gain in dB          | 3DBI         |          | Scale     | 1:1        |                                       | page |
| 200.01~300                     |  | ±0.30        | Shell material      | ABS          |          | Path      |            |                                       | Unit |
|                                |  |              |                     |              |          |           |            |                                       | MM   |



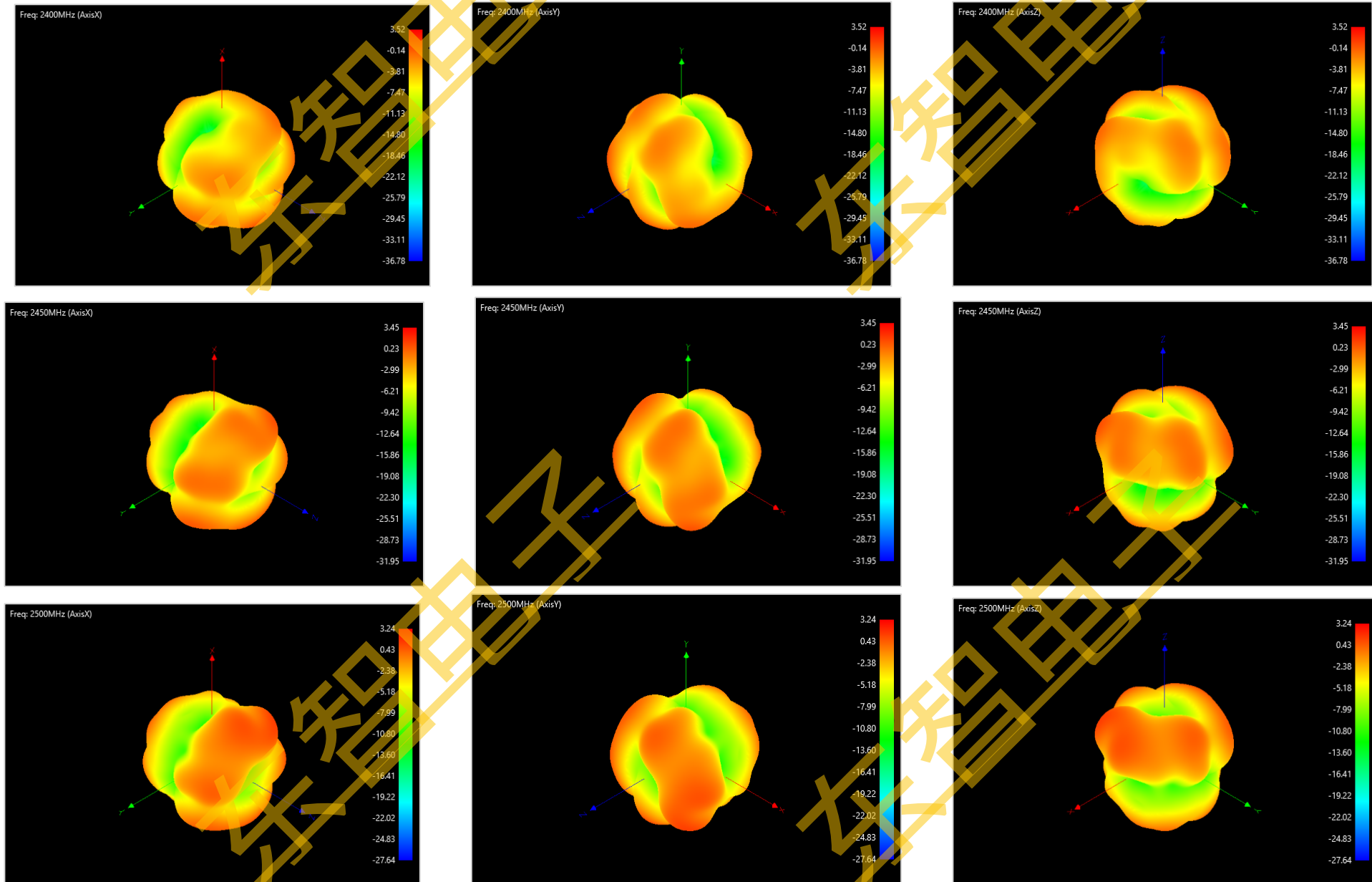
惠州市东智电子有限公司

HUEIZHOU DONZHI ELECTRONICS CO.,LTD

WiFi 天线无源测试数据

| Frequency(MHz) | Gain(dBi) | Efficiency(dB) | Efficiency(%) |
|----------------|-----------|----------------|---------------|
| 2400           | 3.52      | -3.75          | 42.21         |
| 2410           | 3.69      | -3.7           | 42.61         |
| 2420           | 3.47      | -3.57          | 43.99         |
| 2430           | 3.41      | -3.28          | 46.95         |
| 2440           | 3.62      | -2.99          | 50.23         |
| 2450           | 3.45      | -2.82          | 52.22         |
| 2460           | 3.59      | -2.7           | 53.71         |
| 2470           | 3.23      | -2.71          | 53.63         |
| 2480           | 3.06      | -2.49          | 56.32         |
| 2490           | 3.04      | -2.3           | 58.88         |
| 2500           | 3.24      | -2.07          | 62.1          |

# 3D Drawing



# HUEIZHOU DONZHI ELECTRONICS CO., LTD

## 1: Product parameters

Product name: 2.4G ultrasonic antenna

| Mechanical performance indicators |                       |                        |           |
|-----------------------------------|-----------------------|------------------------|-----------|
| Size:                             | 105*13*8mm            | Wire length:           | 280mm     |
| Material:                         | ABS                   | Color:                 | Off white |
| Terminal:                         | IPEX first generation | Operating temperature: | -20℃±85℃  |

| Electrical performance indicators |              |                      |                 |
|-----------------------------------|--------------|----------------------|-----------------|
| Frequency range:                  | 2400~2500MHZ | Polarization mode:   | Vertical        |
| Impedance:                        | 50 Ω         | Radiation direction: | Omnidirectional |
| Standing wave ratio:              | ≤1.5         | Operating voltage:   | 5V              |
| Gain:                             | 3.69DBi      | Bandwidth:           | 100MHZ          |

## 2:Product pictures

