



ShenZhen Huaxinwei communication technology  
Co.,Ltd.

## Antenna Specification

Customer Name: BLU

Project Name: BL-E100

Designer: Zhang Jun

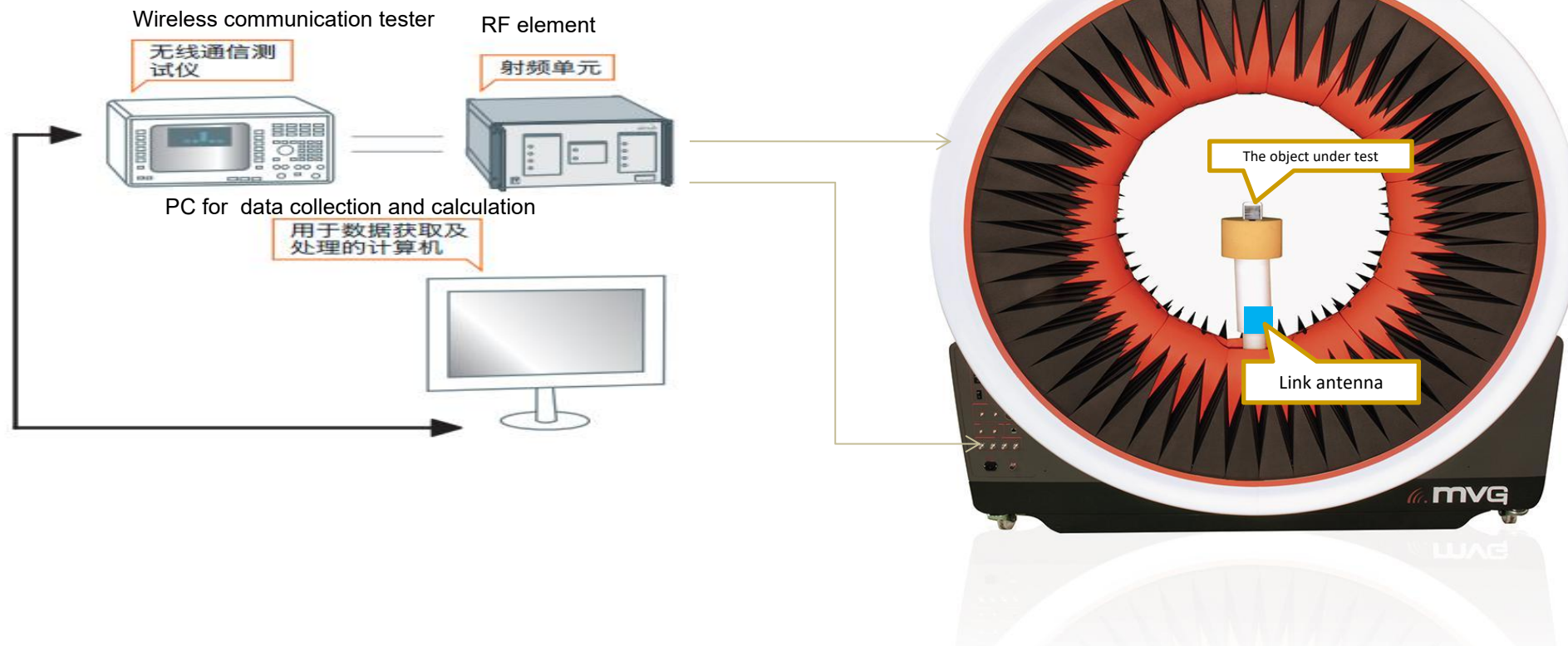
Date: 2026/08/05



|                   |                    |                                                                                                          |              |                       |
|-------------------|--------------------|----------------------------------------------------------------------------------------------------------|--------------|-----------------------|
| The customer name |                    | BLU                                                                                                      | Project Name | BL-E100               |
| NO.               | project            | Detailed above                                                                                           |              |                       |
| 1                 | spectrum           | WIFI/BT                                                                                                  |              |                       |
| 2                 | Project type       | The mobile phone                                                                                         |              |                       |
| 3                 | Antenna space area | Page 5                                                                                                   |              |                       |
| 4                 | note               | Debugging prototype                                                                                      |              |                       |
| 5                 | Antenna Type       | PIFA Antenna                                                                                             |              |                       |
| 6                 | Testing Location   | Room 203, Block C, Building 5, Chuangwei Innovation Valley, Tangtou 1st Road, Bao'an District, Shenzhen. |              |                       |
| 8                 | note               | Debugging prototype                                                                                      |              |                       |
|                   |                    |                                                                                                          |              |                       |
| RF                |                    | Zhang Jun                                                                                                | 13430515055  | hxw_xiaozhang@126.com |

# 1、Test system and test equipment

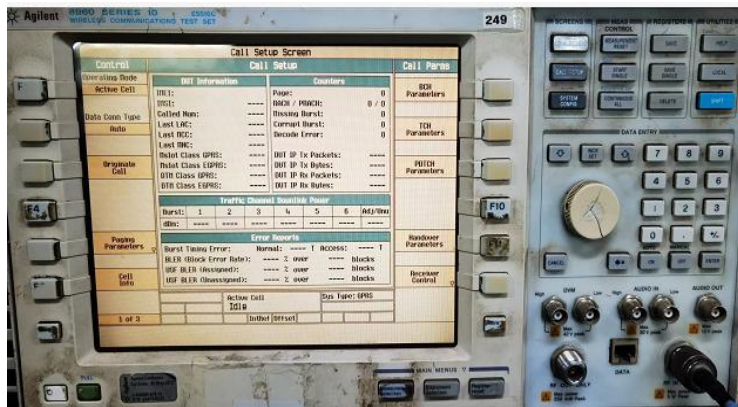
System Brand: MVG(SATIMO) measurement features: gain • pattern beamwidth cross polarization resolution sidelobe level 3D cavity reflectance at any polarization cavity reflectance (line or arc) antenna efficiency TRP, TIS, EIRP and EIS. Frequency band: StarLab 6 GHz - 650 MHz to 6 GHz



# Test Equipment



Wire comprehensive tester CMW500



Wire comprehensive tester 8960



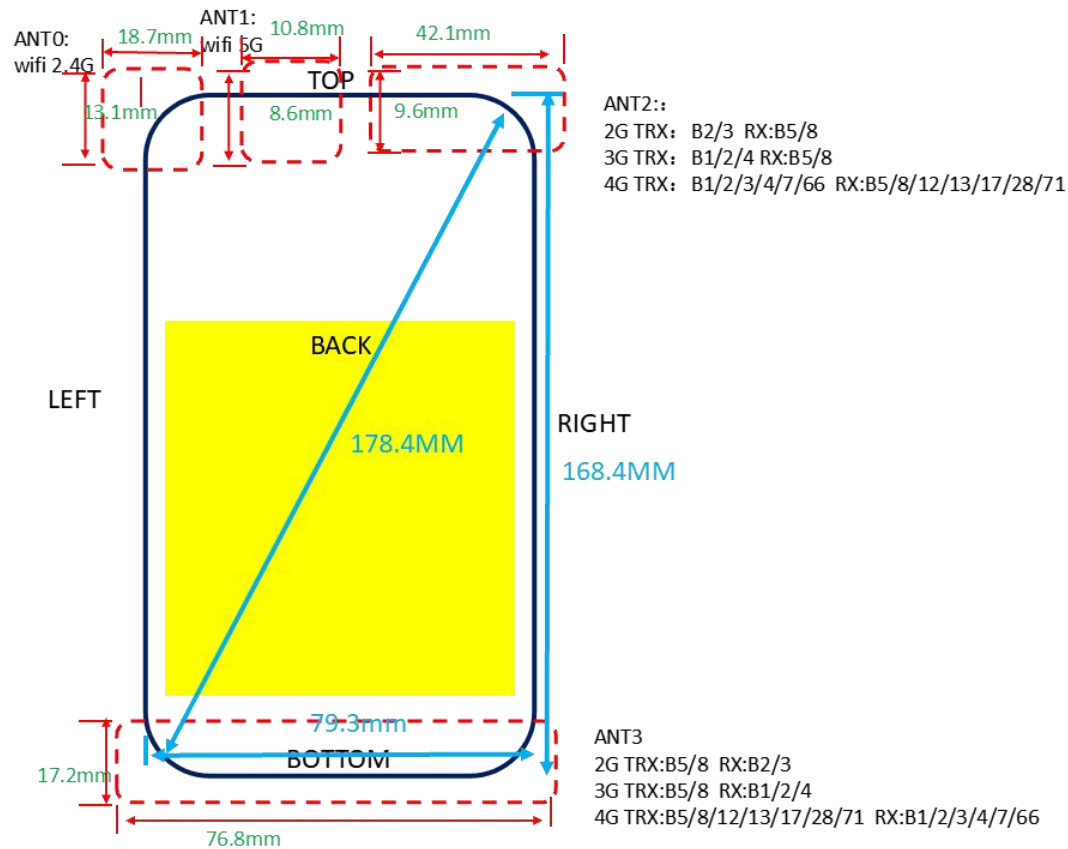
Network analyzer E5071C



MVG 16 probe anechoic chamber

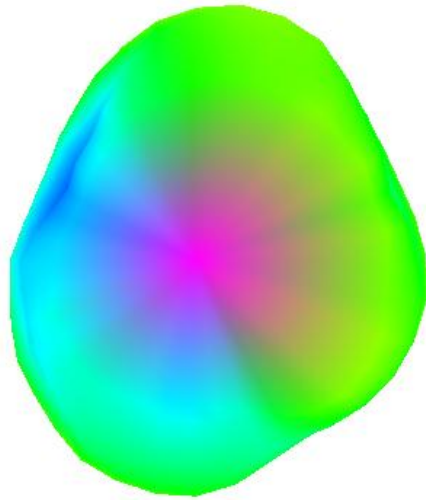
# GAIN ( WiFi /BT)

| PEAK GAIN |              |           |  |
|-----------|--------------|-----------|--|
| 5G-WIFI   | 5150~5850Mhz | -0.96 dBi |  |
| 2.4G-WIFI | 2400~2500Mhz | -1.18 dBi |  |
| BT        | 2400~2500Mhz | -1.18 dBi |  |

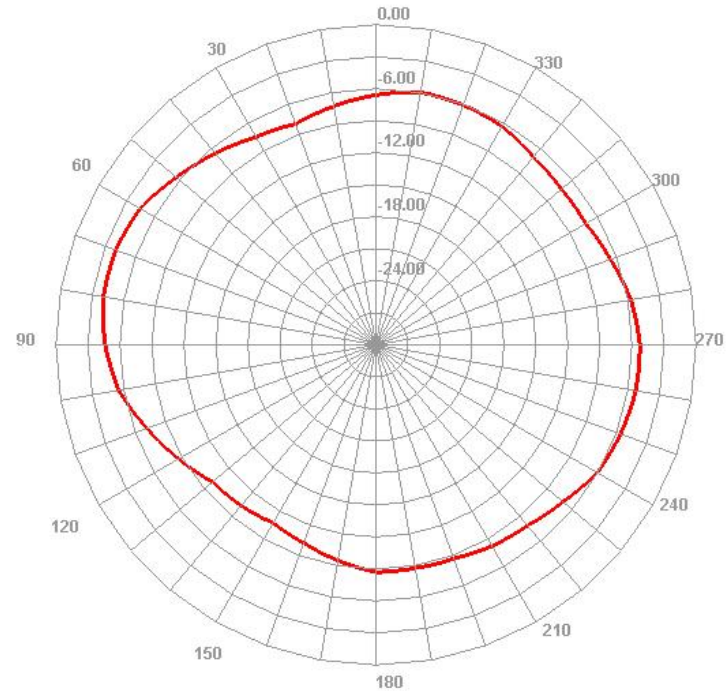


# Efficient ( 2. 4G-WIFI/BT 2400-2500MHz )

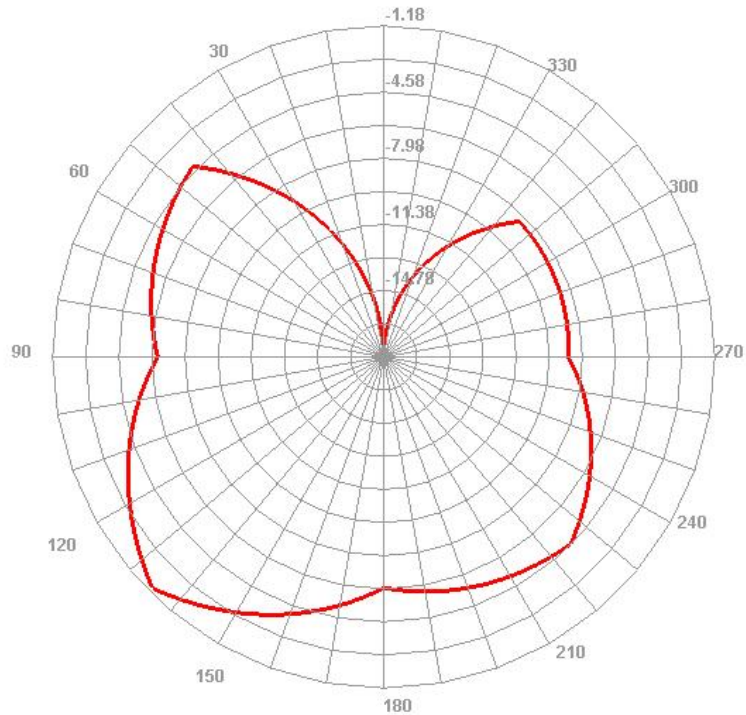
2450.000MHz



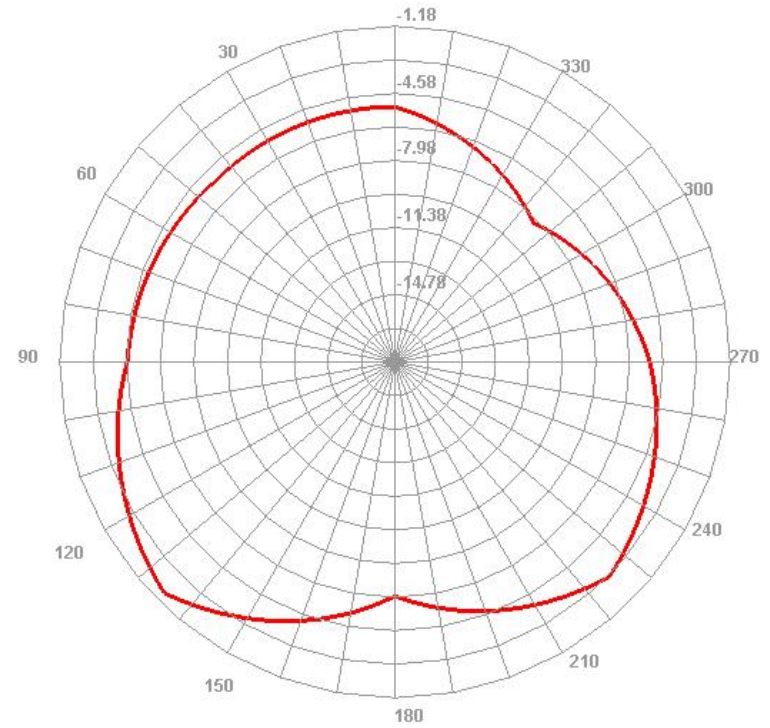
2450.000MHz H



2450.000MHz E1

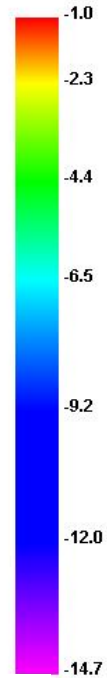
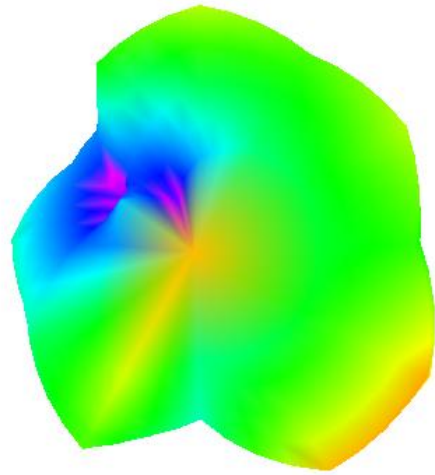


2450.000MHz E2

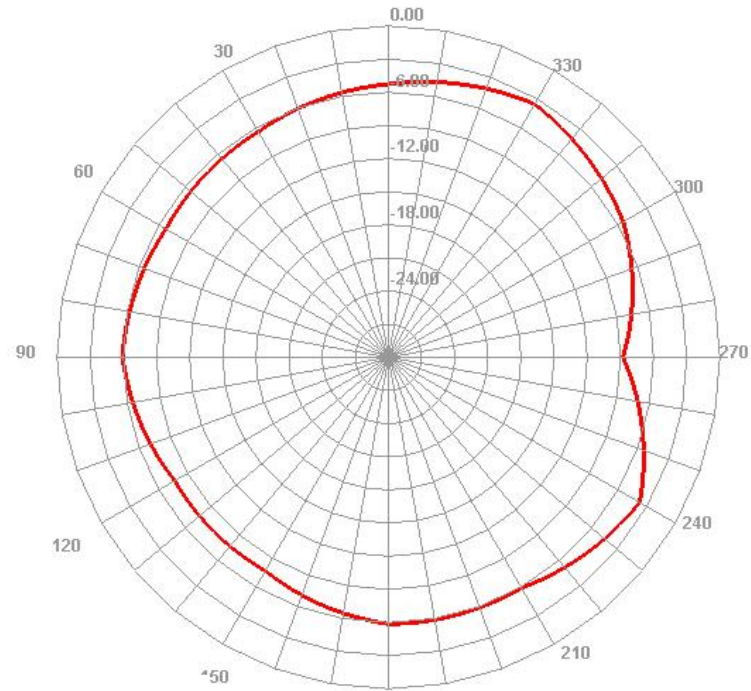


# Efficient ( 5G-WIFI 5000-5850MHz )

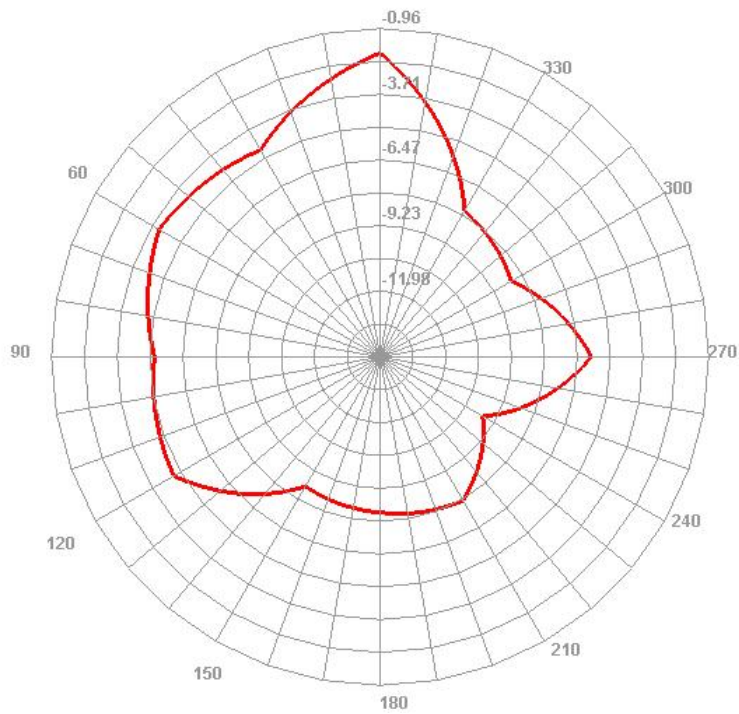
5320.000MHz



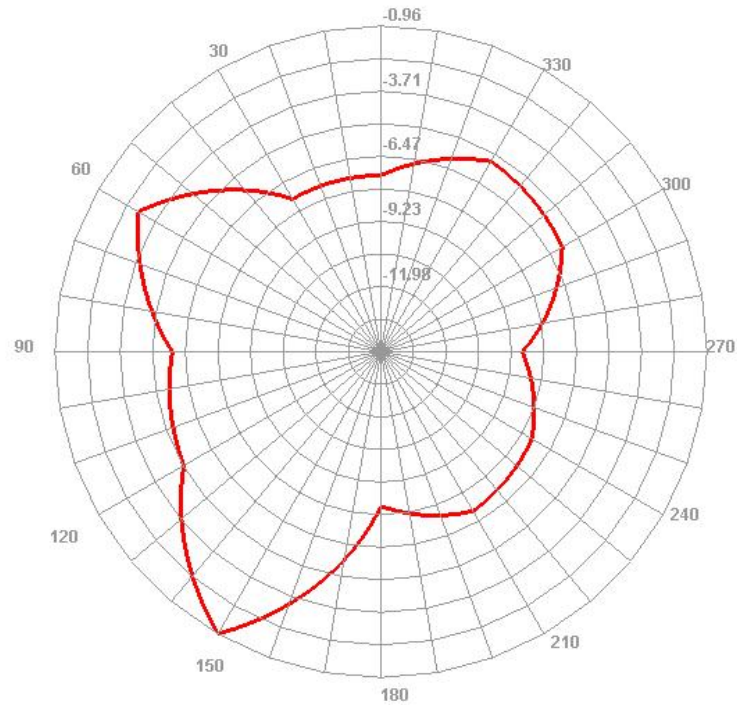
5320.000MHz H



5320.000MHz E1



5320.000MHz E2



Shape + screen printing



Black ink screen printing with white characters

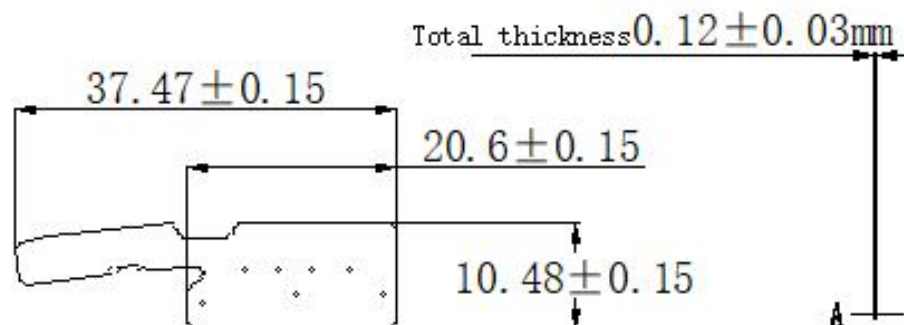
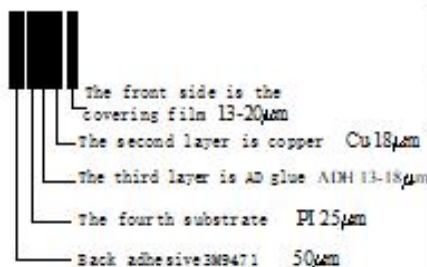


Finished product drawing-front

#### Technical Requirements:

- 1.Single-sided board, Front black ink (10-15um) ;
- 2.Dimensions marked with "\*" are key dimensions. ;
- 3.Use MTM6050 for the adhesive backing. (0.05mm) ;
- 4.The substrate uses PI., T=1Mil, one-and-a-half base material ;
- 5.electrolytic copper, Copper foil thickness 0.5oz ;
- 6.The plating thickness of the gold-plated area is 0.5~1U", Nickel plating thickness 3-6UM, There should be no defects such as easy breakage and peeling after plating, poor conductivity, or breakage in the circuit parts. ;
- 7.Unspecified fillets are all 0.2, Unspecified tolerances according to general tolerance table ;
- 8.The material must comply with RoHS 2.0 Halogen-free REACH requirements, No oxidation phenomenon after 48H salt spray test.

Amplification at A



Hand tear line back glue map-back

| version | Modify the content | modifier | Date of revision |
|---------|--------------------|----------|------------------|
|         |                    |          |                  |
|         |                    |          |                  |
|         |                    |          |                  |

| Huaxin Micro Communication Technology Co. LTD                                                  |          |                              |                     |            |
|------------------------------------------------------------------------------------------------|----------|------------------------------|---------------------|------------|
|                                                                                                | unit: mm | name: FPC                    | date: 2026-08-5     |            |
| General tolerance:<br><br>.I ±0.5<br>.II ±0.25<br>.III ±0.05<br>.XXX ±0.05<br>ANGULAR < ± 0.5° |          | Material number: HL-8100-008 | design: zhushunshen |            |
|                                                                                                |          | material: FPC+MTM6050        | R F:                |            |
|                                                                                                |          | Surface treatment: clean     | confirm:            |            |
|                                                                                                |          | color:                       | proportion: 1:1     | version: A |