

## SPECIFICATION FOR APPROVAL

**Customer:** Shenzhen Wangli Technology Co., Ltd.**Product:** WiFi Antenna,Black,L=65mm 2.4G 4dbi**Model:** HWY-24EL-4W-2183**Part Number:** KG30300004**Written By :** Shaojun Tang**Issued Date:** 2025.6.6**CUSTOMER:**

| ENGINEER R&D DEPT | QUALITY DEPT | APPROVED |
|-------------------|--------------|----------|
|                   |              |          |

**Zhongjia:**

| R&D DEPT     | ENGINEER R&D DEPT | APPROVED      |
|--------------|-------------------|---------------|
| Shaojun Tang | Shitong Tang      | Youguang Zeng |

**ADD:**

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Change resume

| Edition | Description of changes | Date of change | Production / revision | Remarks |
|---------|------------------------|----------------|-----------------------|---------|
| V1.0    | Original version       | 2025.6.6       | Shaojun Tang          |         |
|         |                        |                |                       |         |
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## The basic parameters:

### A. Electrical Characteristics

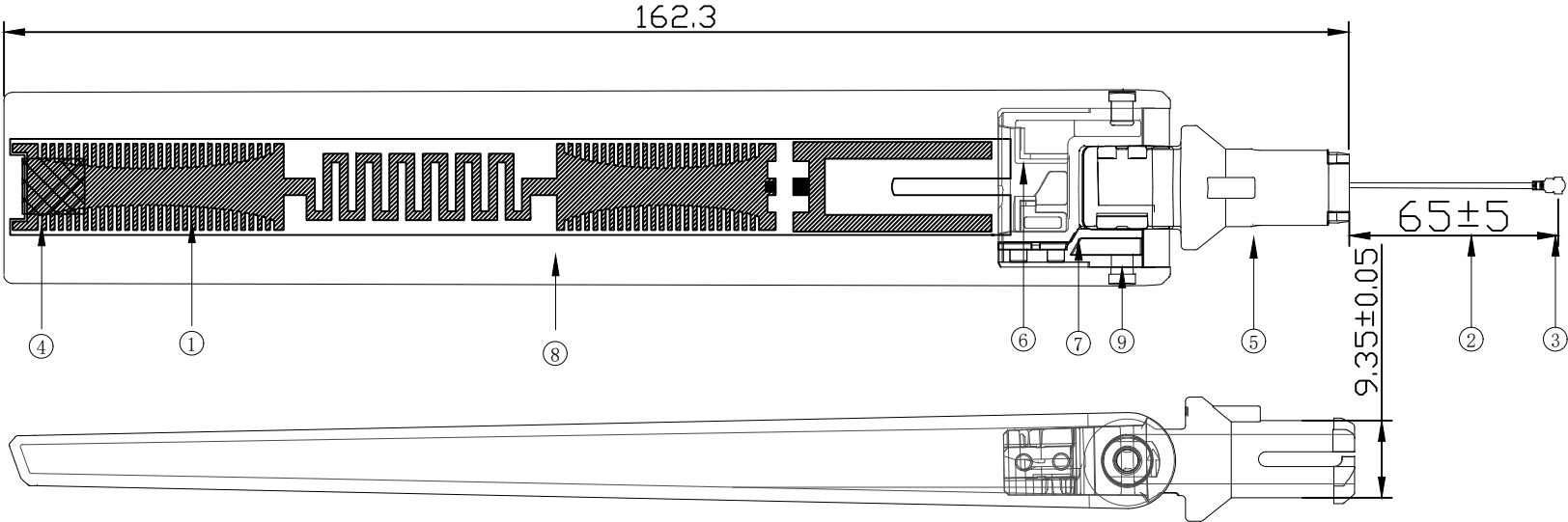
|              |               |
|--------------|---------------|
| Frequency    | 2.4 ~2.483GHz |
| VSWR         | $\leq 2.0$    |
| Efficiency   | >50%          |
| Impedance    | 50 Ohm        |
| Polarization | Linear        |
| Gain         | 4 $\pm$ 1 dBi |
| Radiation    | Omni.         |

### B. Mechanical parameters

|                |             |
|----------------|-------------|
| Cable Type     | 1.13mm grey |
| Connector Type | MHF Plug    |
| Dimension      | 65mm        |
| Antenna Colour | White       |

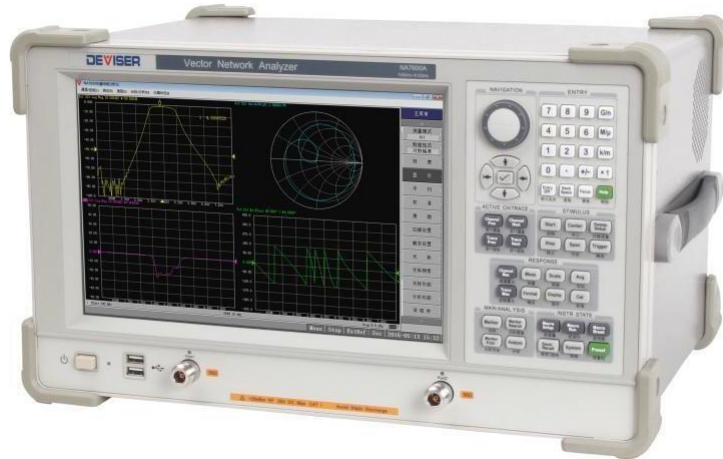
### C. Operating/ Storage Temperature

|                       |                   |
|-----------------------|-------------------|
| Operation Temperature | - 40 °C ~ + 70 °C |
| Storage Temperature   | - 40 °C ~ + 70 °C |

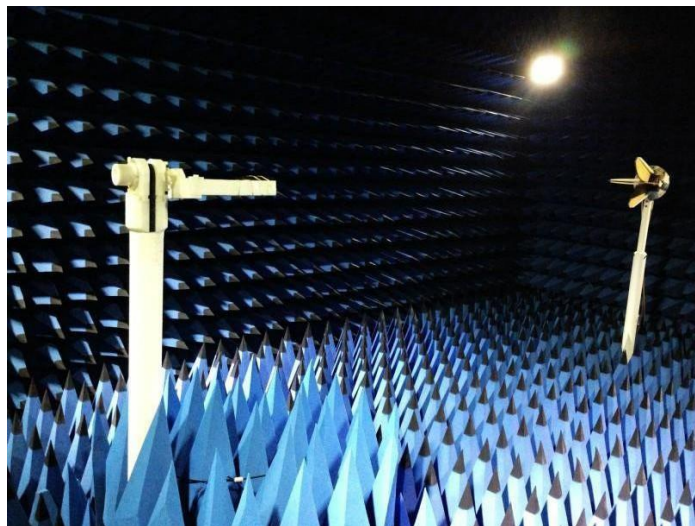
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                          |   |                                                 |              |                  |          |         |             |               |         |   |              |   |             |                                                                       |   |                                                 |             |                                                      |   |   |             |                                                                          |             |                              |             |                                                                          |        |   |  |  |   |             |                 |   |        |              |      |          |     |             |      |    |   |             |                                     |   |       |  |      |  |     |            |         |   |   |             |                                    |   |         |  |      |  |  |  |      |     |     |        |                           |  |    |  |  |  |  |  |  |  |   |
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| A   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | B                                                                        |   | C                                               |              | D                |          | E       |             | F             |         | G |              |   |             |                                                                       |   |                                                 |             |                                                      |   |   |             |                                                                          |             |                              |             |                                                                          |        |   |  |  |   |             |                 |   |        |              |      |          |     |             |      |    |   |             |                                     |   |       |  |      |  |     |            |         |   |   |             |                                    |   |         |  |      |  |  |  |      |     |     |        |                           |  |    |  |  |  |  |  |  |  |   |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                          |   |                                                 |              |                  |          | Edition | Date        | Description   | ECN NO. |   | NAME         |   |             |                                                                       |   |                                                 |             |                                                      |   |   |             |                                                                          |             |                              |             |                                                                          |        |   |  |  |   |             |                 |   |        |              |      |          |     |             |      |    |   |             |                                     |   |       |  |      |  |     |            |         |   |   |             |                                    |   |         |  |      |  |  |  |      |     |     |        |                           |  |    |  |  |  |  |  |  |  |   |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                          |   |                                                 |              |                  |          | A       | 2025.6.6    | First version |         |   | Shaojun Tang |   |             |                                                                       |   |                                                 |             |                                                      |   |   |             |                                                                          |             |                              |             |                                                                          |        |   |  |  |   |             |                 |   |        |              |      |          |     |             |      |    |   |             |                                     |   |       |  |      |  |     |            |         |   |   |             |                                    |   |         |  |      |  |  |  |      |     |     |        |                           |  |    |  |  |  |  |  |  |  |   |
| 1   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                          |   |                                                 |              |                  |          |         |             |               |         |   |              | 1 |             |                                                                       |   |                                                 |             |                                                      |   |   |             |                                                                          |             |                              |             |                                                                          |        |   |  |  |   |             |                 |   |        |              |      |          |     |             |      |    |   |             |                                     |   |       |  |      |  |     |            |         |   |   |             |                                    |   |         |  |      |  |  |  |      |     |     |        |                           |  |    |  |  |  |  |  |  |  |   |
| 2   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                          |   |                                                 |              |                  |          |         |             |               |         |   |              | 2 |             |                                                                       |   |                                                 |             |                                                      |   |   |             |                                                                          |             |                              |             |                                                                          |        |   |  |  |   |             |                 |   |        |              |      |          |     |             |      |    |   |             |                                     |   |       |  |      |  |     |            |         |   |   |             |                                    |   |         |  |      |  |  |  |      |     |     |        |                           |  |    |  |  |  |  |  |  |  |   |
| 3   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                          |   |                                                 |              |                  |          |         |             |               |         |   |              | 3 |             |                                                                       |   |                                                 |             |                                                      |   |   |             |                                                                          |             |                              |             |                                                                          |        |   |  |  |   |             |                 |   |        |              |      |          |     |             |      |    |   |             |                                     |   |       |  |      |  |     |            |         |   |   |             |                                    |   |         |  |      |  |  |  |      |     |     |        |                           |  |    |  |  |  |  |  |  |  |   |
| 4   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                          |   |                                                 |              |                  |          |         |             |               |         |   |              | 4 |             |                                                                       |   |                                                 |             |                                                      |   |   |             |                                                                          |             |                              |             |                                                                          |        |   |  |  |   |             |                 |   |        |              |      |          |     |             |      |    |   |             |                                     |   |       |  |      |  |     |            |         |   |   |             |                                    |   |         |  |      |  |  |  |      |     |     |        |                           |  |    |  |  |  |  |  |  |  |   |
| 5   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                          |   |                                                 |              |                  |          |         |             |               |         |   |              | 5 |             |                                                                       |   |                                                 |             |                                                      |   |   |             |                                                                          |             |                              |             |                                                                          |        |   |  |  |   |             |                 |   |        |              |      |          |     |             |      |    |   |             |                                     |   |       |  |      |  |     |            |         |   |   |             |                                    |   |         |  |      |  |  |  |      |     |     |        |                           |  |    |  |  |  |  |  |  |  |   |
| 6   | <div>Remarks</div> <div>1. Frequency range: 2.4~2.5GHz</div> <div>2. VSWR ≤2.0</div> <div>3. Comply with ROHS environmental requirements</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                          |   |                                                 |              |                  |          |         |             |               |         |   |              | 6 |             |                                                                       |   |                                                 |             |                                                      |   |   |             |                                                                          |             |                              |             |                                                                          |        |   |  |  |   |             |                 |   |        |              |      |          |     |             |      |    |   |             |                                     |   |       |  |      |  |     |            |         |   |   |             |                                    |   |         |  |      |  |  |  |      |     |     |        |                           |  |    |  |  |  |  |  |  |  |   |
| 7   | <table><tr><td>⑨</td><td>Z0101000374</td><td>Rivet, material: POM, white</td><td>2</td></tr><tr><td>⑧</td><td>Z0101000373</td><td>Cover, material: ABS, L*W*H=140.6*23.2*11.6mm, white</td><td>1</td></tr><tr><td>⑦</td><td>Z0101000372</td><td>Upper Left mounting seat, material: ABS, L*W*H=20.6*10.37*18.66mm, white</td><td>1</td></tr><tr><td>⑥</td><td>Z0101000371</td><td>Upper right mounting seat, material: ABS, L*W*H=20.6*10.37*5.15mm, white</td><td>1</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                          |   |                                                 |              |                  |          |         |             |               |         |   |              | ⑨ | Z0101000374 | Rivet, material: POM, white                                           | 2 | ⑧                                               | Z0101000373 | Cover, material: ABS, L*W*H=140.6*23.2*11.6mm, white | 1 | ⑦ | Z0101000372 | Upper Left mounting seat, material: ABS, L*W*H=20.6*10.37*18.66mm, white | 1           | ⑥                            | Z0101000371 | Upper right mounting seat, material: ABS, L*W*H=20.6*10.37*5.15mm, white | 1      | 7 |  |  |   |             |                 |   |        |              |      |          |     |             |      |    |   |             |                                     |   |       |  |      |  |     |            |         |   |   |             |                                    |   |         |  |      |  |  |  |      |     |     |        |                           |  |    |  |  |  |  |  |  |  |   |
| ⑨   | Z0101000374                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rivet, material: POM, white                                              | 2 |                                                 |              |                  |          |         |             |               |         |   |              |   |             |                                                                       |   |                                                 |             |                                                      |   |   |             |                                                                          |             |                              |             |                                                                          |        |   |  |  |   |             |                 |   |        |              |      |          |     |             |      |    |   |             |                                     |   |       |  |      |  |     |            |         |   |   |             |                                    |   |         |  |      |  |  |  |      |     |     |        |                           |  |    |  |  |  |  |  |  |  |   |
| ⑧   | Z0101000373                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Cover, material: ABS, L*W*H=140.6*23.2*11.6mm, white                     | 1 |                                                 |              |                  |          |         |             |               |         |   |              |   |             |                                                                       |   |                                                 |             |                                                      |   |   |             |                                                                          |             |                              |             |                                                                          |        |   |  |  |   |             |                 |   |        |              |      |          |     |             |      |    |   |             |                                     |   |       |  |      |  |     |            |         |   |   |             |                                    |   |         |  |      |  |  |  |      |     |     |        |                           |  |    |  |  |  |  |  |  |  |   |
| ⑦   | Z0101000372                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Upper Left mounting seat, material: ABS, L*W*H=20.6*10.37*18.66mm, white | 1 |                                                 |              |                  |          |         |             |               |         |   |              |   |             |                                                                       |   |                                                 |             |                                                      |   |   |             |                                                                          |             |                              |             |                                                                          |        |   |  |  |   |             |                 |   |        |              |      |          |     |             |      |    |   |             |                                     |   |       |  |      |  |     |            |         |   |   |             |                                    |   |         |  |      |  |  |  |      |     |     |        |                           |  |    |  |  |  |  |  |  |  |   |
| ⑥   | Z0101000371                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Upper right mounting seat, material: ABS, L*W*H=20.6*10.37*5.15mm, white | 1 |                                                 |              |                  |          |         |             |               |         |   |              |   |             |                                                                       |   |                                                 |             |                                                      |   |   |             |                                                                          |             |                              |             |                                                                          |        |   |  |  |   |             |                 |   |        |              |      |          |     |             |      |    |   |             |                                     |   |       |  |      |  |     |            |         |   |   |             |                                    |   |         |  |      |  |  |  |      |     |     |        |                           |  |    |  |  |  |  |  |  |  |   |
| 8   | <table><tr><td>⑤</td><td>Z0101000370</td><td>Lower mounting seat, material: PC+PBT, L*OD*OD=32.65*15*9.35mm, white</td><td>1</td><td rowspan="2">Dongguan Zhongjia Electronic Technology Co.,Ltd</td><td>Model No.</td><td colspan="4">HWY-24EL-4W-2183</td></tr><tr><td>④</td><td>Y1002000027</td><td>EVA, L*W*T=15*8*2.5mm, black</td><td>1</td><td>Name:</td><td colspan="4">2.4G-1</td></tr><tr><td>③</td><td>Y0406000003</td><td>1.13mm MHF plug</td><td>1</td><td>Design</td><td>Shaojun Tang</td><td>Date</td><td>2025.6.6</td><td>IPN</td><td>C0111000925</td><td>Unit</td><td>mm</td></tr><tr><td>②</td><td>Y0554000015</td><td>1.13mm coaxial cable, L=137mm, grey</td><td>1</td><td>Check</td><td></td><td>Date</td><td></td><td>CPN</td><td>KG30300004</td><td>Edition</td><td>A</td></tr><tr><td>①</td><td>Y0301110258</td><td>PCB, L*W*T=118.7*11.6*0.6mm, green</td><td>1</td><td>Approve</td><td></td><td>Date</td><td></td><td></td><td></td><td>Page</td><td>1/1</td></tr><tr><td>NO.</td><td>Number</td><td colspan="2">Specification description</td><td>QT</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> |                                                                          |   |                                                 |              |                  |          |         |             |               |         |   |              | ⑤ | Z0101000370 | Lower mounting seat, material: PC+PBT, L*OD*OD=32.65*15*9.35mm, white | 1 | Dongguan Zhongjia Electronic Technology Co.,Ltd | Model No.   | HWY-24EL-4W-2183                                     |   |   |             | ④                                                                        | Y1002000027 | EVA, L*W*T=15*8*2.5mm, black | 1           | Name:                                                                    | 2.4G-1 |   |  |  | ③ | Y0406000003 | 1.13mm MHF plug | 1 | Design | Shaojun Tang | Date | 2025.6.6 | IPN | C0111000925 | Unit | mm | ② | Y0554000015 | 1.13mm coaxial cable, L=137mm, grey | 1 | Check |  | Date |  | CPN | KG30300004 | Edition | A | ① | Y0301110258 | PCB, L*W*T=118.7*11.6*0.6mm, green | 1 | Approve |  | Date |  |  |  | Page | 1/1 | NO. | Number | Specification description |  | QT |  |  |  |  |  |  |  | 8 |
| ⑤   | Z0101000370                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Lower mounting seat, material: PC+PBT, L*OD*OD=32.65*15*9.35mm, white    | 1 | Dongguan Zhongjia Electronic Technology Co.,Ltd | Model No.    | HWY-24EL-4W-2183 |          |         |             |               |         |   |              |   |             |                                                                       |   |                                                 |             |                                                      |   |   |             |                                                                          |             |                              |             |                                                                          |        |   |  |  |   |             |                 |   |        |              |      |          |     |             |      |    |   |             |                                     |   |       |  |      |  |     |            |         |   |   |             |                                    |   |         |  |      |  |  |  |      |     |     |        |                           |  |    |  |  |  |  |  |  |  |   |
| ④   | Y1002000027                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | EVA, L*W*T=15*8*2.5mm, black                                             | 1 |                                                 | Name:        | 2.4G-1           |          |         |             |               |         |   |              |   |             |                                                                       |   |                                                 |             |                                                      |   |   |             |                                                                          |             |                              |             |                                                                          |        |   |  |  |   |             |                 |   |        |              |      |          |     |             |      |    |   |             |                                     |   |       |  |      |  |     |            |         |   |   |             |                                    |   |         |  |      |  |  |  |      |     |     |        |                           |  |    |  |  |  |  |  |  |  |   |
| ③   | Y0406000003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.13mm MHF plug                                                          | 1 | Design                                          | Shaojun Tang | Date             | 2025.6.6 | IPN     | C0111000925 | Unit          | mm      |   |              |   |             |                                                                       |   |                                                 |             |                                                      |   |   |             |                                                                          |             |                              |             |                                                                          |        |   |  |  |   |             |                 |   |        |              |      |          |     |             |      |    |   |             |                                     |   |       |  |      |  |     |            |         |   |   |             |                                    |   |         |  |      |  |  |  |      |     |     |        |                           |  |    |  |  |  |  |  |  |  |   |
| ②   | Y0554000015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.13mm coaxial cable, L=137mm, grey                                      | 1 | Check                                           |              | Date             |          | CPN     | KG30300004  | Edition       | A       |   |              |   |             |                                                                       |   |                                                 |             |                                                      |   |   |             |                                                                          |             |                              |             |                                                                          |        |   |  |  |   |             |                 |   |        |              |      |          |     |             |      |    |   |             |                                     |   |       |  |      |  |     |            |         |   |   |             |                                    |   |         |  |      |  |  |  |      |     |     |        |                           |  |    |  |  |  |  |  |  |  |   |
| ①   | Y0301110258                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PCB, L*W*T=118.7*11.6*0.6mm, green                                       | 1 | Approve                                         |              | Date             |          |         |             | Page          | 1/1     |   |              |   |             |                                                                       |   |                                                 |             |                                                      |   |   |             |                                                                          |             |                              |             |                                                                          |        |   |  |  |   |             |                 |   |        |              |      |          |     |             |      |    |   |             |                                     |   |       |  |      |  |     |            |         |   |   |             |                                    |   |         |  |      |  |  |  |      |     |     |        |                           |  |    |  |  |  |  |  |  |  |   |
| NO. | Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Specification description                                                |   | QT                                              |              |                  |          |         |             |               |         |   |              |   |             |                                                                       |   |                                                 |             |                                                      |   |   |             |                                                                          |             |                              |             |                                                                          |        |   |  |  |   |             |                 |   |        |              |      |          |     |             |      |    |   |             |                                     |   |       |  |      |  |     |            |         |   |   |             |                                    |   |         |  |      |  |  |  |      |     |     |        |                           |  |    |  |  |  |  |  |  |  |   |
| A   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | B                                                                        |   | C                                               |              | D                |          | E       |             | F             |         | G |              |   |             |                                                                       |   |                                                 |             |                                                      |   |   |             |                                                                          |             |                              |             |                                                                          |        |   |  |  |   |             |                 |   |        |              |      |          |     |             |      |    |   |             |                                     |   |       |  |      |  |     |            |         |   |   |             |                                    |   |         |  |      |  |  |  |      |     |     |        |                           |  |    |  |  |  |  |  |  |  |   |

## Test Equipment & Conditions

1. Network Analyzers NA7682 100KHz-8500MHz

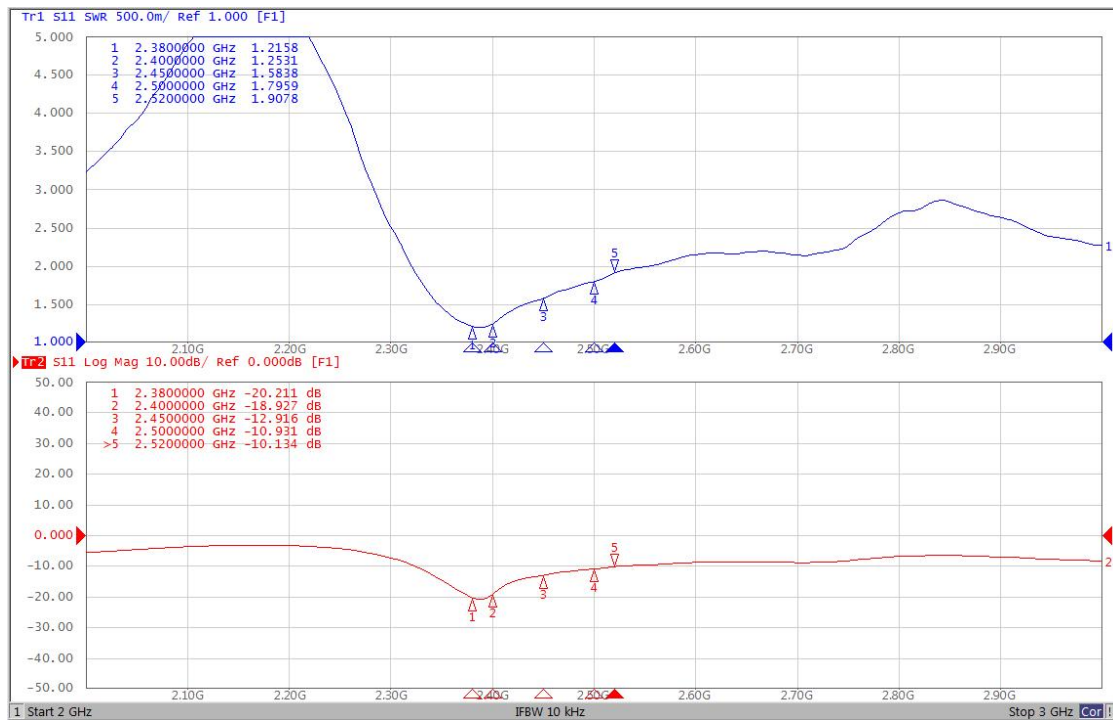


2. Communications Test Set: OTA, Agilent 8753, CMW500



Test Data:

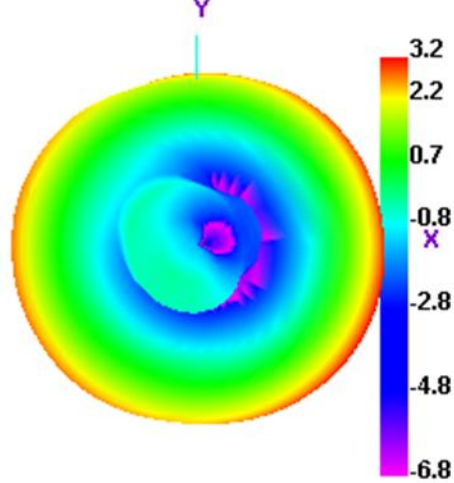
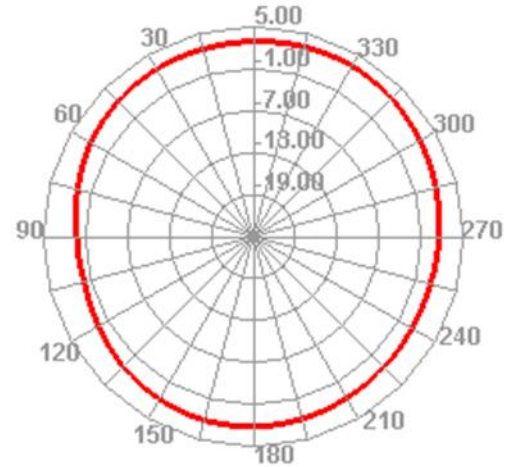
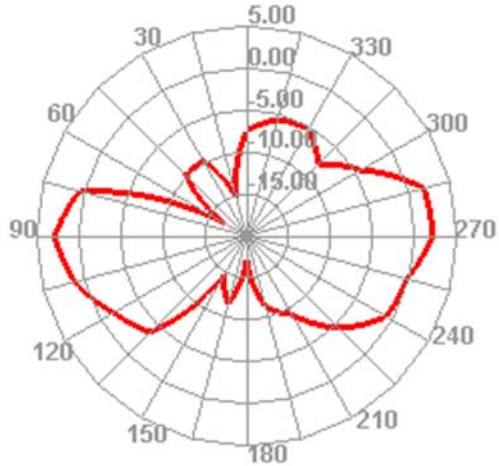
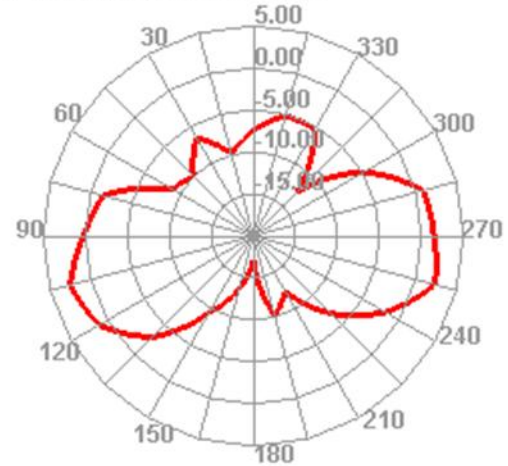
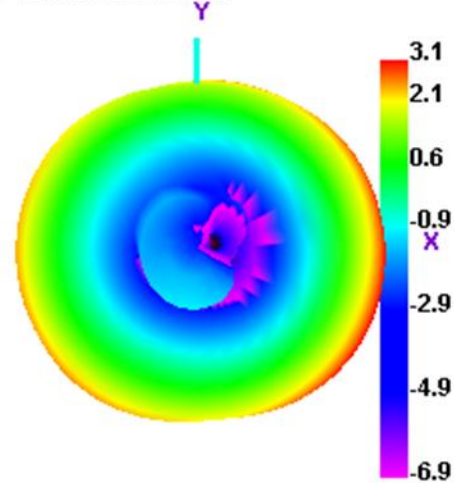
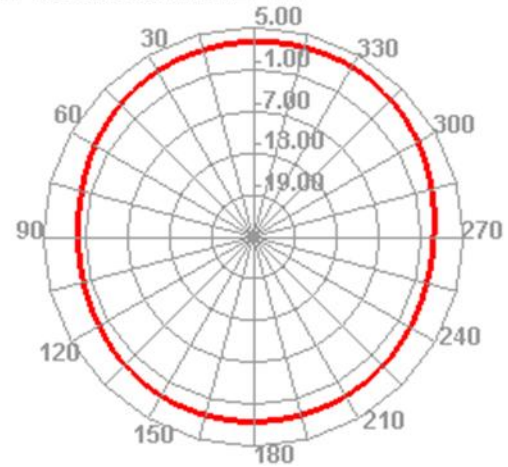
## Reflection loss/VSWR

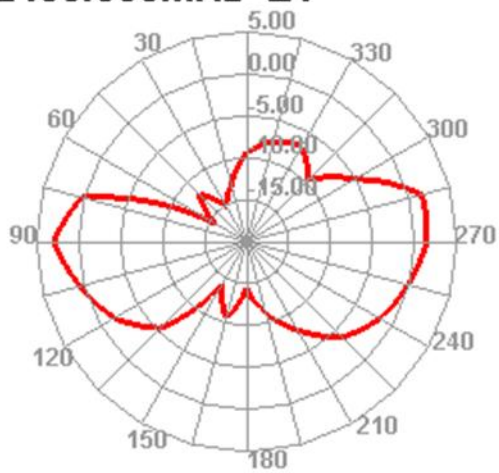
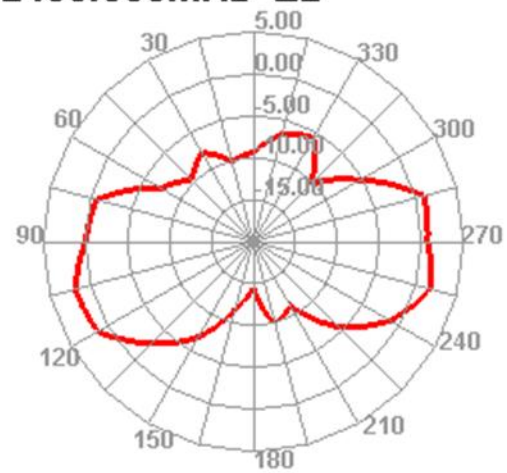
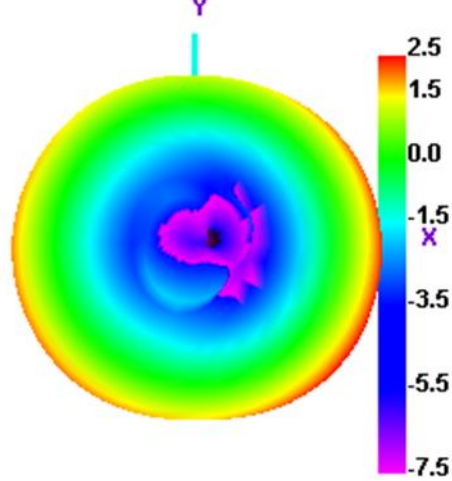
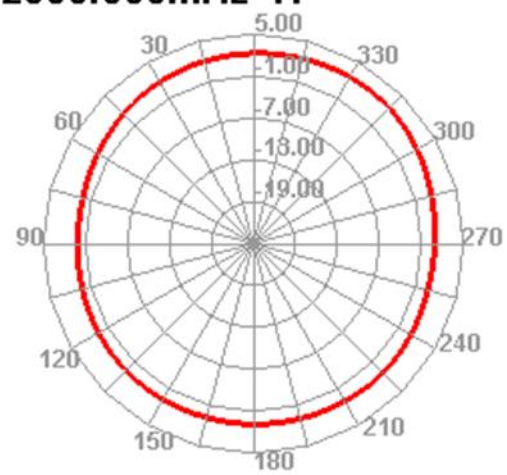
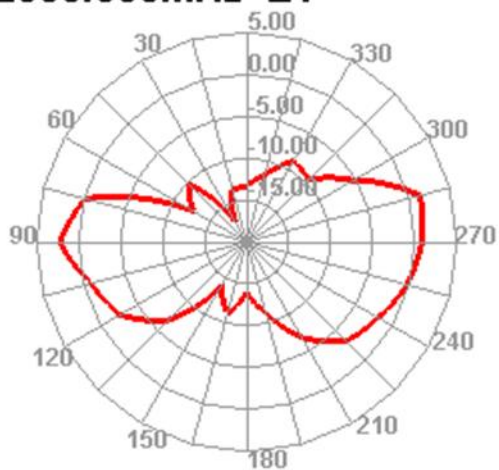
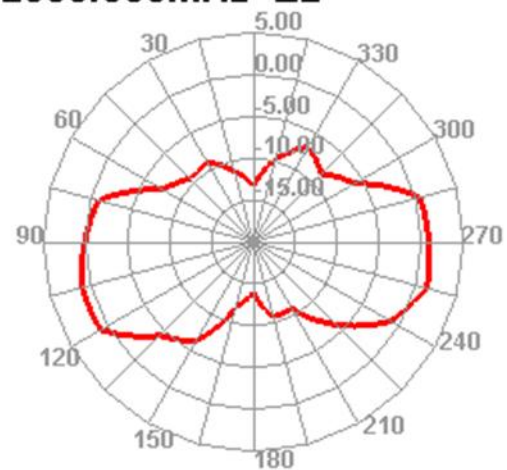


## Efficiency&Gain:

| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) | Gain (dBd) |
|------------|----------|-----------|------------|------------|
| 2400       | 72.79    | -1.38     | 3.24       | 1.09       |
| 2410       | 72.32    | -1.41     | 3.22       | 1.07       |
| 2420       | 72.38    | -1.4      | 3.29       | 1.14       |
| 2430       | 75.58    | -1.22     | 3.48       | 1.33       |
| 2440       | 76.25    | -1.18     | 3.57       | 1.42       |
| 2450       | 68.76    | -1.63     | 3.12       | 0.97       |
| 2460       | 63.12    | -2        | 2.81       | 0.66       |
| 2470       | 63.33    | -1.98     | 2.73       | 0.58       |
| 2480       | 62.8     | -2.02     | 2.65       | 0.5        |
| 2490       | 63.4     | -1.98     | 2.66       | 0.51       |
| 2500       | 62.23    | -2.06     | 2.55       | 0.4        |

# Patten

**2400.000MHz****2400.000MHz H****2400.000MHz E1****2400.000MHz E2****2450.000MHz****2450.000MHz H**

**2450.000MHz E1****2450.000MHz E2****2500.000MHz****2500.000MHz H****2500.000MHz E1****2500.000MHz E2**

## Antenna picture:

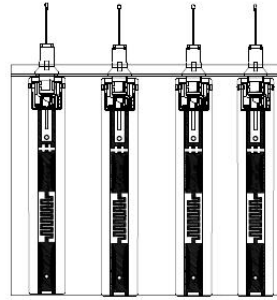


## Product packaging specification

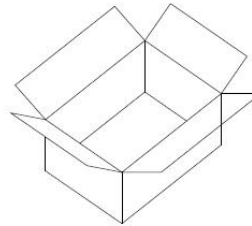
|               |                                          |
|---------------|------------------------------------------|
| product name: | External antenna                         |
| Description:  | Except for customer special requirements |
| version :     | V0                                       |



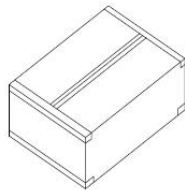
1. Antenna



2. The finished antenna products are packed in PE bags, and the quantity is subject to the actual amount.



3. Put the assembled antennas into the carton, and the quantity is subject to the actual amount.



4. Seal the carton and affix our company's label or the label required by the customer on the outside.