

|                                                                                                                                              |                                                                             |                    |                    |        |                    |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------|--------------------|--------|--------------------|
| <br>深圳市华创翔科技有限公司<br>Shenzhen Wacosun Technology<br>Co., Ltd | 2.4G~5.8G 3.5dbi 黑色弯头扁<br>壳天线 Antenna 带 IPEX<br><b>P/N.: HCX-B536W.3440</b> | DOC.NO.:HCX024-042 |                    | Rev.:A | Page:1/ 14         |
|                                                                                                                                              |                                                                             | Approved/<br>Date  | Checked/Date       |        | Written/Date       |
|                                                                                                                                              |                                                                             | Jeff<br>10/10/24'  | Kevin<br>10/10/24' |        | Marco<br>10/10/23' |



**Figure 1**

## 2.4G~5.8G 3.5dbi Antenna

**L=250mm 带 IPEX**

### Product Specification

| Brand.  | Product Name   | Description                                    | Finish                      | Order |
|---------|----------------|------------------------------------------------|-----------------------------|-------|
| Wacosun | HCX-B536W.3440 | 2.4G~5.8G 3.5dbi 外置胶棒<br>天线<br>RP- SMA-K(内螺内孔) | Gold Plate<br>/Copper Alloy | SZ    |
|         |                |                                                |                             |       |
|         |                |                                                |                             |       |
|         |                |                                                |                             |       |

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|                                                                                                                                           |                                                                         |                    |                    |        |                    |
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| <br>深圳市华创翔科技有限公司<br>Shenzhen Wacosun Technology Co., Ltd | 2.4G~5.8G 3.5dbi 黑色弯头扁壳天线 Antenna 带 IPEX<br><b>P/N.: HCX-B536W.3440</b> | DOC.NO.:HCX024-042 |                    | Rev.:A | Page:2/ 14         |
|                                                                                                                                           |                                                                         | Approved/Date      | Checked/Date       |        | Written/Date       |
|                                                                                                                                           |                                                                         | Jeff<br>10/10/24'  | Kevin<br>10/10/24' |        | Marco<br>10/10/23' |

## 1.0 Scope (范围) :

This product specification is for 2.4G~5.8G 3.5dbi 外置胶棒 ANTENNA, which is used with this antenna . Please contact us before using any of the production in the applications not described above.

本产品规格为 2.4G~5.8G 5dbi 外置胶棒天线，用于该天线。请在未使用上述应用程序的任何产品前与我们联系。

## 2.0 Rating (等级) :

2.1 Nominal Frequency Range (额定频率范围): 2400~5850 MHz.

2.2 Nominal Impedance (额定阻抗): 50 Ω.

2.3 Temperature Rating (温度范围): -30℃ to +85℃.

## 3.0 EXAMINATION PERFORMANCE (性能检验):

| Item<br>(项目) | Test<br>Description<br>(测试简介) | Test Methods<br>(测试方法) | Requirement<br>(需求) |
|--------------|-------------------------------|------------------------|---------------------|
|--------------|-------------------------------|------------------------|---------------------|

|                                                                                             |                                                              |                                                                                                                                                                              |                                                                                          |                    |        |                    |  |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------|--------|--------------------|--|
| <div>Wacosun®</div> <div>深圳市华创翔科技有限公司</div> <div>Shenzhen Wacosun Technology Co., Ltd</div> |                                                              | 2.4G~5.8G 3.5dbi 黑色弯头扁壳天线 Antenna 带 IPEX                                                                                                                                     | DOC.NO.:HCX024-042                                                                       |                    | Rev.:A | Page:3/ 14         |  |
|                                                                                             |                                                              |                                                                                                                                                                              | Approved/Date                                                                            | Checked/Date       |        | Written/Date       |  |
|                                                                                             |                                                              |                                                                                                                                                                              | Jeff<br>10/10/24'                                                                        | Kevin<br>10/10/24' |        | Marco<br>10/10/23' |  |
| 3.1                                                                                         | Examination of product (Outward Appearance Structure) 产品外观检查 | <b>EIA 364-18</b><br>1).Outward appearance shall be good<br>2).Structure shall be meet the design and dimensional requirements of drawing.<br>1).外观应良好<br>2)结构应符合图纸的设计和尺寸要求。 | Shall be confirmed with eyes in accordance with each drawing.                            |                    |        |                    |  |
|                                                                                             |                                                              |                                                                                                                                                                              | Shall be confirmed by using proper measuring instruments.<br>1. 目视确认图纸<br>2. 使用适当的测量仪器确认 |                    |        |                    |  |
| 4.0 ELECTRICAL PERFORMANCE (电气性能)                                                           |                                                              |                                                                                                                                                                              |                                                                                          |                    |        |                    |  |
| Item                                                                                        | Test Description                                             | Test Methods                                                                                                                                                                 | Requirement                                                                              |                    |        |                    |  |
| 4.1                                                                                         | Peak Gain(dBi)                                               | Use the 3D analyzer to measure and the basic date with the customer special cable lengthen,                                                                                  | 2400/5150/5250/5850MHz<br>Peak Gain(dBi):3.5dBi                                          |                    |        |                    |  |

|                                                                                             |  |                                          |                    |                    |        |                    |
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| <div>Wacosun®</div> <div>深圳市华创翔科技有限公司</div> <div>Shenzhen Wacosun Technology Co., Ltd</div> |  | 2.4G~5.8G 3.5dbi 黑色弯头扁壳天线 Antenna 带 IPEX | DOC.NO.:HCX024-042 |                    | Rev.:A | Page:4/ 14         |
|                                                                                             |  |                                          | Approved/Date      | Checked/Date       |        | Written/Date       |
|                                                                                             |  |                                          | Jeff<br>10/10/24'  | Kevin<br>10/10/24' |        | Marco<br>10/10/23' |
|                                                                                             |  | P/N.: HCX-B536W.3440                     |                    |                    |        |                    |

|     |         |                                                                                                  |                                                |
|-----|---------|--------------------------------------------------------------------------------------------------|------------------------------------------------|
| 4.2 | V.S.W.R | Measure the V.S.W.R as shown in figure 2 by the network analyzer.<br><br>Frequency:2400~5850MHz, | 2400/5150/5250/5850MHz<br><br>V.S.W.R:2.0 Max. |
|-----|---------|--------------------------------------------------------------------------------------------------|------------------------------------------------|

|                             |                      |                                                                                                  |                                                                      |
|-----------------------------|----------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| 5.0 MECHANICAL PERFORMANCE: |                      |                                                                                                  |                                                                      |
| Item                        | Test Description     | Test Methods                                                                                     | Requirement                                                          |
| 5.1                         | Connector Durability | 100 cycles of mating and withdrawal under the following conditions. Cycle speed: 25±3mm/min Max. | No evidence of visual mechanical damages and meet the specification. |

|                                |                  |                                                                                                                                                                                                                                                                                                   |                                                                     |
|--------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 6.0 ENVIRONMENTAL PERFORMANCE: |                  |                                                                                                                                                                                                                                                                                                   |                                                                     |
| 6.1                            | Salt water spray | Temperature:308+/-2K(35+/-2°);<br>Salt water density by weight:5+/-1%;<br>Duration:48 hours;<br>Mated;<br>Recovery: Let the specimens are rinsed with water and let it rest at ambient temperature (15~35℃) for 48 hours after salt water spray testing.<br><br>Test equipment: Salt Spray Tester | Appearance,construction:<br>No defect such as remarkable corrosion. |

|                                                                                                                                              |                                                                             |                    |                    |        |                    |
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|                                                                                                                                              |                                                                             | Approved/<br>Date  | Checked/Date       |        | Written/Date       |
|                                                                                                                                              |                                                                             | Jeff<br>10/10/24'  | Kevin<br>10/10/24' |        | Marco<br>10/10/23' |

|     |                        |                                                           |                                                                     |
|-----|------------------------|-----------------------------------------------------------|---------------------------------------------------------------------|
| 6.2 | Stockpile<br>condition | Please use the product within Six<br>months after receipt | Temperature: -10 ~ +40<br>°C<br>Relative Humidity<br>: 15 ~ 85 % RH |
|-----|------------------------|-----------------------------------------------------------|---------------------------------------------------------------------|

## RELIABILITY TEST REPORT

### ( 可靠性验证报告 )

Note:

- Samples shall be prepare in accordance with applicable manufacture' s instructions and shall be selected at random from current production.
- The numbers in the table indicate sequence in which tests are performed.
- Precondition samples with 5 cycles durability.
- All the tests shall be performed in the sequence, indicated by the number in the columns.
- Each test groups shall consist of minimum of five connectors. selected and identified. Unless otherwise specified, these SPEC shall be used for all measurements.

#### 1.0 Reliability test report:

|                                                                                                                                           |                                                                         |                    |                    |        |                    |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------|--------------------|--------|--------------------|
| <br>深圳市华创翔科技有限公司<br>Shenzhen Wacosun Technology Co., Ltd | 2.4G~5.8G 3.5dbi 黑色弯头扁壳天线 Antenna 带 IPEX<br><b>P/N.: HCX-B536W.3440</b> | DOC.NO.:HCX024-042 |                    | Rev.:A | Page:6/ 14         |
|                                                                                                                                           |                                                                         | Approved/Date      | Checked/Date       |        | Written/Date       |
|                                                                                                                                           |                                                                         | Jeff<br>10/10/24'  | Kevin<br>10/10/24' |        | Marco<br>10/10/23' |

| 电气参数                                  |                        | 物理特性                    |             |
|---------------------------------------|------------------------|-------------------------|-------------|
| Electrical specifications Description |                        | Physical Properties     |             |
| 频率范围 (MHz)<br>Frequency Range         | 2400/5150/5250/5850MHz | 长度<br>Length (mm)       | 124mm       |
| 带宽<br>Band Width                      | 10/50                  | 连接器型号<br>Connector      | IPEX I 代    |
| 输入阻抗<br>Impedance                     | 50Ω                    | 外壳材料<br>Radome Material | ABS         |
| 驻波比 VSWR                              | <2.0                   | 外壳颜色<br>Radome Color    | 黑色<br>Black |
| 增益 Gain                               | 3.5dBi                 | /                       | /           |
| 极化方式<br>Polarization                  | 垂直                     | /                       | /           |
| 辐射方向<br>Radiation                     | 全向                     | /                       | /           |
| 功率容量<br>Power                         | 10W                    | /                       | /           |

|                                                                                                                                                  |                                                                             |                    |                    |        |                    |
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|                                                                                                                                                  |                                                                             | Approved/<br>Date  | Checked/Date       |        | Written/Date       |
|                                                                                                                                                  |                                                                             | Jeff<br>10/10/24'  | Kevin<br>10/10/24' |        | Marco<br>10/10/23' |

产品图示 Product :

Antenna-3.5DB L=250mm IPEX:

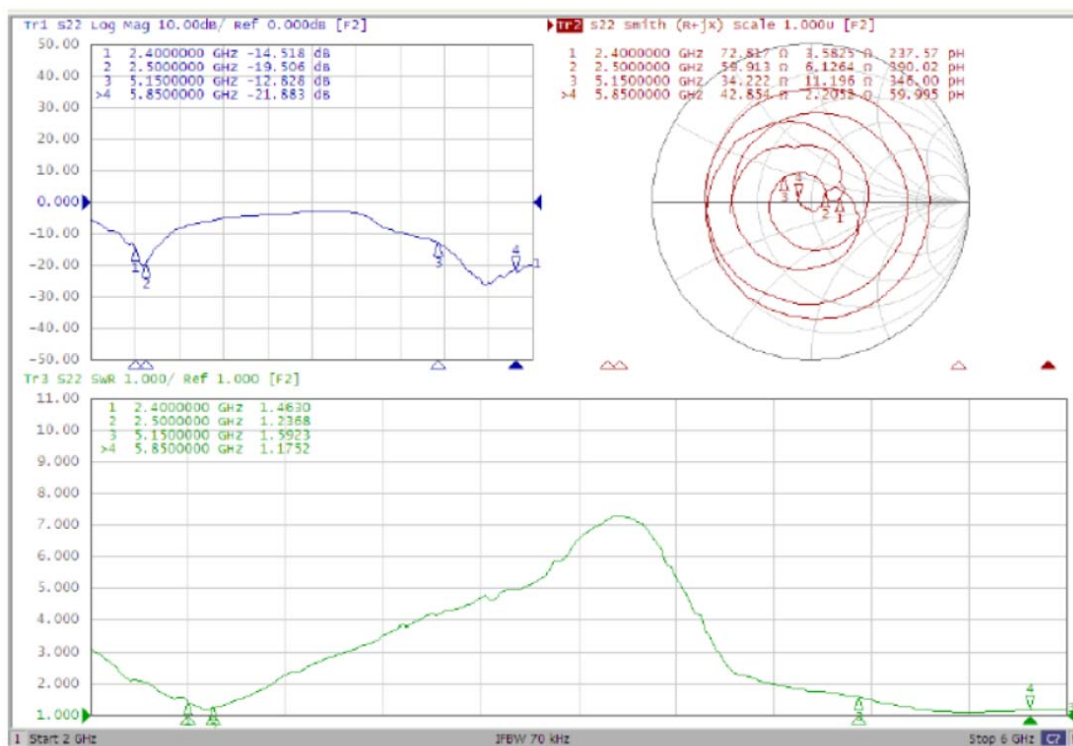


|                                                                                |                                                                             |                    |                    |                    |
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|                                                                                |                                                                             | Approved/<br>Date  | Checked/Date       | Written/Date       |
|                                                                                |                                                                             | Jeff<br>10/10/24'  | Kevin<br>10/10/24' | Marco<br>10/10/23' |

## RF Antenna Assembly

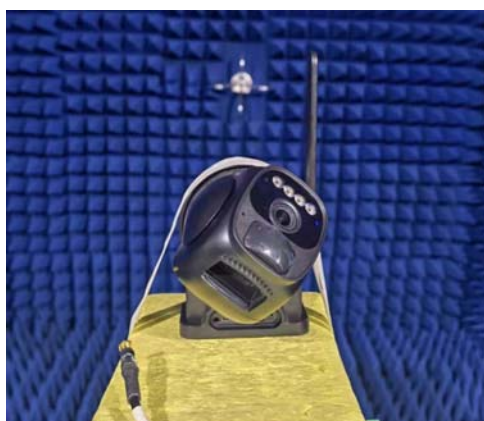
**SPEC:2.4~5.8GHz**

**2.0 :回波损耗 Return Loss&3.0:电压驻波比 V.S.W.R&4.0: 阻抗图 Impedance**



|                                                                                                                                           |                                                                         |                    |                    |        |                    |
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|                                                                                                                                           |                                                                         | Approved/Date      | Checked/Date       |        | Written/Date       |
|                                                                                                                                           |                                                                         | Jeff<br>10/10/24'  | Kevin<br>10/10/24' |        | Marco<br>10/10/23' |

OTA 有源实验测试:



2.4-5.8G 暗室测试数据图

| 天线暗室 | Test            | Wifi 2G TIS |        |        |        | Wifi 5G TIS |        |        |        | 平均值 | 测试产品: QW5安防监控<br>测试条件: 平置在测试台上面<br>测试设备: 广屏OTA 单探头<br>测试参数: 2.4G 802.11b : 11Mbps<br>5.8G 802.11a : 54Mbps |
|------|-----------------|-------------|--------|--------|--------|-------------|--------|--------|--------|-----|------------------------------------------------------------------------------------------------------------|
|      | Result          | 1           | 7      | 13     | 36     | 64          | 149    | 165    |        |     |                                                                                                            |
|      | Frequency (MHz) | 2412        | 2442   | 2472   | 5180   | 5320        | 5745   | 5825   |        |     |                                                                                                            |
|      | TIS (dBm)       | -90.91      | -91.03 | -81.55 | -81.83 | -82.8       | -81.93 | -81.55 | -84.51 |     |                                                                                                            |
|      | Test            | Wifi 2G TRP |        |        |        | Wifi 5G TRP |        |        |        |     |                                                                                                            |
|      | Result          | 1           | 7      | 13     | 36     | 64          | 149    | 165    |        |     |                                                                                                            |
|      | Frequency (MHz) | 2412        | 2442   | 2472   | 5180   | 5320        | 5745   | 5825   |        |     |                                                                                                            |
|      | TRP (dBm)       | 23.48       | 21.83  | 21.17  | 24.47  | 23.35       | 21.77  | 24.62  | 22.95  |     |                                                                                                            |

OTA 无源实验测试:

|                                                                                                                                              |                                                                      |                    |                    |        |                    |
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|                                                                                                                                              |                                                                      | Approved/<br>Date  | Checked/Date       |        | Written/Date       |
|                                                                                                                                              |                                                                      | Jeff<br>10/10/24'  | Kevin<br>10/10/24' |        | Marco<br>10/10/23' |

| Passive Test For 2.4G~5.8G |             |              |               |               |            |            |             |             |                     |                    |
|----------------------------|-------------|--------------|---------------|---------------|------------|------------|-------------|-------------|---------------------|--------------------|
| Freq<br>(MHz)              | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | Gain<br>(dBd) | UHS<br>(%) | DHS<br>(%) | Max<br>(dB) | Min<br>(dB) | irectivity<br>(dBi) | Beamwidth<br>(3dB) |
| 2400                       | 57.78       | -2.38        | 2.6           | 0.45          | 24.383     | 33.399     | 2.6         | -12.2       | 4.98                | 30                 |
| 2410                       | 57.47       | -2.41        | 2.44          | 0.29          | 23.837     | 33.631     | 2.44        | -13.03      | 4.84                | 30                 |
| 2420                       | 58.27       | -2.35        | 2.63          | 0.48          | 23.784     | 34.489     | 2.63        | -12.75      | 4.97                | 30                 |
| 2430                       | 58.8        | -2.31        | 2.81          | 0.66          | 23.732     | 35.066     | 2.81        | -12.57      | 5.12                | 30                 |
| 2440                       | 59.16       | -2.28        | 3.06          | 0.91          | 23.626     | 35.532     | 3.06        | -12         | 5.34                | 60                 |
| 2450                       | 54.01       | -2.68        | 2.82          | 0.67          | 21.458     | 32.552     | 2.82        | -11.44      | 5.49                | 30                 |
| 2460                       | 53.18       | -2.74        | 2.93          | 0.78          | 20.997     | 32.186     | 2.93        | -11.16      | 5.67                | 30                 |
| 2470                       | 52.57       | -2.79        | 2.98          | 0.83          | 20.682     | 31.888     | 2.98        | -11.57      | 5.77                | 30                 |
| 2480                       | 53.44       | -2.72        | 3.12          | 0.97          | 21.039     | 32.405     | 3.12        | -11.69      | 5.84                | 30                 |
| 2490                       | 55.58       | -2.55        | 3.25          | 1.1           | 22.078     | 33.5       | 3.25        | -11.6       | 5.8                 | 30                 |
| 2500                       | 53.71       | -2.7         | 3.03          | 0.88          | 21.704     | 32.009     | 3.03        | -11.82      | 5.73                | 30                 |
| 2510                       | 50.99       | -2.92        | 2.67          | 0.52          | 21.042     | 29.951     | 2.67        | -11.89      | 5.59                | 30                 |
| 2520                       | 48.26       | -3.16        | 2.25          | 0.1           | 20.232     | 28.023     | 2.25        | -12.26      | 5.42                | 30                 |
| 2530                       | 43.62       | -3.6         | 1.64          | -0.51         | 18.469     | 25.153     | 1.64        | -13.28      | 5.24                | 30                 |
| 2540                       | 38.74       | -4.12        | 0.99          | -1.16         | 16.572     | 22.172     | 0.99        | -14.39      | 5.11                | 30                 |
| 2550                       | 35.42       | -4.51        | 0.45          | -1.7          | 15.369     | 20.048     | 0.45        | -15.85      | 4.96                | 30                 |
| 2560                       | 32.28       | -4.91        | -0.1          | -2.25         | 14.247     | 18.029     | -0.1        | -17.18      | 4.81                | 30                 |
| 2570                       | 31.18       | -5.06        | -0.5          | -2.65         | 14.086     | 17.091     | -0.5        | -17.31      | 4.56                | 30                 |
| 2580                       | 28.04       | -5.52        | -0.99         | -3.14         | 12.937     | 15.099     | -0.99       | -17.74      | 4.54                | 30                 |
| 2590                       | 26.85       | -5.71        | -1.18         | -3.33         | 12.643     | 14.206     | -1.18       | -17.47      | 4.53                | 30                 |
| 2600                       | 27          | -5.69        | -1.18         | -3.33         | 12.821     | 14.182     | -1.18       | -16.73      | 4.51                | 30                 |
| 2610                       | 27.2        | -5.65        | -1.08         | -3.23         | 12.893     | 14.307     | -1.08       | -16.35      | 4.58                | 30                 |
| 2620                       | 24.75       | -6.06        | -1.35         | -3.5          | 11.673     | 13.077     | -1.35       | -17         | 4.72                | 30                 |
| 2630                       | 24.96       | -6.03        | -1.07         | -3.22         | 11.748     | 13.215     | -1.07       | -18.04      | 4.95                | 30                 |
| 2640                       | 26.79       | -5.72        | -0.55         | -2.7          | 12.628     | 14.157     | -0.55       | -18.31      | 5.18                | 30                 |

|                                                                                                                                              |                                                                      |                    |                    |        |                    |
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|                                                                                                                                              |                                                                      | Jeff<br>10/10/24'  | Kevin<br>10/10/24' |        | Marco<br>10/10/23' |

|      |       |       |       |       |        |        |       |        |      |     |
|------|-------|-------|-------|-------|--------|--------|-------|--------|------|-----|
| 2650 | 28.44 | -5.46 | -0.12 | -2.27 | 13.508 | 14.929 | -0.12 | -20.25 | 5.34 | 30  |
| 2660 | 28.6  | -5.44 | -0.02 | -2.17 | 13.675 | 14.923 | -0.02 | -22.48 | 5.41 | 60  |
| 2670 | 28.67 | -5.43 | -0.04 | -2.19 | 13.751 | 14.921 | -0.04 | -23.25 | 5.39 | 90  |
| 2680 | 28.93 | -5.39 | -0.05 | -2.2  | 13.837 | 15.094 | -0.05 | -19.91 | 5.34 | 120 |
| 2690 | 29.04 | -5.37 | -0.04 | -2.19 | 13.73  | 15.313 | -0.04 | -17.02 | 5.33 | 120 |
| 2700 | 29.66 | -5.28 | 0.67  | -1.48 | 13.79  | 15.869 | 0.67  | -17.34 | 5.95 | 90  |
| 2710 | 29.11 | -5.36 | 1.02  | -1.13 | 13.359 | 15.753 | 1.02  | -17.94 | 6.38 | 90  |
| 2720 | 27.4  | -5.62 | 1.03  | -1.12 | 12.452 | 14.946 | 1.03  | -17.36 | 6.65 | 90  |
| 2730 | 28.21 | -5.5  | 1.38  | -0.77 | 12.739 | 15.47  | 1.38  | -17.96 | 6.88 | 90  |
| 2740 | 28.59 | -5.44 | 1.6   | -0.55 | 12.829 | 15.757 | 1.6   | -19.48 | 7.04 | 90  |
| 2750 | 31.26 | -5.05 | 1.9   | -0.25 | 13.946 | 17.31  | 1.9   | -20.16 | 6.95 | 90  |
| 2760 | 36.35 | -4.39 | 2.37  | 0.22  | 16.16  | 20.192 | 2.37  | -19.46 | 6.77 | 90  |
| 2770 | 38.22 | -4.18 | 2.31  | 0.16  | 17.012 | 21.211 | 2.31  | -17.95 | 6.48 | 90  |
| 2780 | 40.53 | -3.92 | 2.29  | 0.14  | 18.016 | 22.516 | 2.29  | -15.86 | 6.21 | 90  |
| 2790 | 42.27 | -3.74 | 2.13  | -0.02 | 18.684 | 23.586 | 2.13  | -14.25 | 5.87 | 120 |
| 2800 | 42.28 | -3.74 | 1.8   | -0.35 | 18.472 | 23.811 | 1.8   | -12.87 | 5.54 | 120 |
| 2810 | 43.48 | -3.62 | 1.55  | -0.6  | 18.694 | 24.784 | 1.55  | -13.29 | 5.16 | 120 |
| 2820 | 46.13 | -3.36 | 1.73  | -0.42 | 19.532 | 26.594 | 1.73  | -14.31 | 5.09 | 120 |
| 2830 | 47.78 | -3.21 | 1.85  | -0.3  | 19.905 | 27.875 | 1.85  | -15.03 | 5.05 | 120 |
| 2840 | 46.46 | -3.33 | 1.82  | -0.33 | 19.03  | 27.434 | 1.82  | -16.37 | 5.15 | 120 |
| 2850 | 45.2  | -3.45 | 1.74  | -0.41 | 18.3   | 26.902 | 1.74  | -17.26 | 5.19 | 120 |
| 2860 | 44.94 | -3.47 | 1.72  | -0.43 | 18.053 | 26.882 | 1.72  | -17.69 | 5.19 | 120 |
| 2870 | 44.98 | -3.47 | 1.72  | -0.43 | 17.977 | 27.006 | 1.72  | -17.05 | 5.19 | 120 |
| 2880 | 41    | -3.87 | 1.38  | -0.77 | 16.244 | 24.758 | 1.38  | -16.07 | 5.25 | 120 |
| 2890 | 42.43 | -3.72 | 1.47  | -0.68 | 16.674 | 25.757 | 1.47  | -16.74 | 5.19 | 120 |
| 2900 | 41.9  | -3.78 | 1.38  | -0.77 | 16.446 | 25.457 | 1.38  | -18.05 | 5.15 | 120 |
| 2910 | 43.3  | -3.64 | 1.43  | -0.72 | 17.072 | 26.228 | 1.43  | -18.89 | 5.06 | 120 |
| 2920 | 40.8  | -3.89 | 1.19  | -0.96 | 16.196 | 24.607 | 1.19  | -20.08 | 5.09 | 120 |

|                                                                                                                                              |                                                                             |                    |                    |                    |                |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------|--------------------|--------------------|----------------|
| <br>深圳市华创翔科技有限公司<br>Shenzhen Wacosun Technology<br>Co., Ltd | 2.4G~5.8G 3.5dbi 黑色弯头扁<br>壳天线 Antenna 带 IPEX<br><b>P/N.: HCX-B536W.3440</b> | DOC.NO.:HCX024-042 |                    | Rev.:A             | Page:12/<br>14 |
|                                                                                                                                              |                                                                             | Approved/<br>Date  | Checked/Date       | Written/Date       |                |
|                                                                                                                                              |                                                                             | Jeff<br>10/10/24'  | Kevin<br>10/10/24' | Marco<br>10/10/23' |                |

|      |       |       |      |      |        |        |      |        |      |   |
|------|-------|-------|------|------|--------|--------|------|--------|------|---|
| 5150 | 42.5  | -3.72 | 2.34 | 0.19 | 23.513 | 18.99  | 2.34 | -19.79 | 6.06 | 0 |
| 5160 | 42.47 | -3.72 | 2.49 | 0.34 | 23.474 | 18.995 | 2.49 | -20.6  | 6.21 | 0 |
| 5170 | 40.82 | -3.89 | 2.51 | 0.36 | 22.578 | 18.238 | 2.51 | -21.14 | 6.4  | 0 |
| 5180 | 41.87 | -3.78 | 2.77 | 0.62 | 23.229 | 18.642 | 2.77 | -21.26 | 6.55 | 0 |
| 5190 | 41.46 | -3.82 | 2.81 | 0.66 | 23.005 | 18.459 | 2.81 | -21.19 | 6.64 | 0 |
| 5200 | 44.07 | -3.56 | 3.19 | 1.04 | 24.545 | 19.526 | 3.19 | -20.46 | 6.74 | 0 |
| 5210 | 44.08 | -3.56 | 3.28 | 1.13 | 24.681 | 19.4   | 3.28 | -19.85 | 6.84 | 0 |
| 5220 | 44.43 | -3.52 | 3.5  | 1.35 | 24.995 | 19.433 | 3.5  | -19.13 | 7.03 | 0 |
| 5230 | 45.57 | -3.41 | 3.73 | 1.58 | 25.738 | 19.828 | 3.73 | -18.8  | 7.14 | 0 |
| 5240 | 45.31 | -3.44 | 3.84 | 1.69 | 25.693 | 19.615 | 3.84 | -19.22 | 7.28 | 0 |
| 5250 | 44.47 | -3.52 | 3.8  | 1.65 | 25.155 | 19.317 | 3.8  | -19.83 | 7.32 | 0 |
| 5260 | 45.94 | -3.38 | 3.99 | 1.84 | 25.896 | 20.045 | 3.99 | -20.33 | 7.37 | 0 |
| 5270 | 46.26 | -3.35 | 4.03 | 1.88 | 25.982 | 20.276 | 4.03 | -20.85 | 7.37 | 0 |
| 5280 | 46.82 | -3.3  | 4.08 | 1.93 | 26.248 | 20.573 | 4.08 | -21.95 | 7.38 | 0 |
| 5290 | 48.72 | -3.12 | 4.26 | 2.11 | 27.338 | 21.378 | 4.26 | -21.75 | 7.38 | 0 |
| 5300 | 47.36 | -3.25 | 4.14 | 1.99 | 26.569 | 20.786 | 4.14 | -22.21 | 7.38 | 0 |
| 5310 | 47.07 | -3.27 | 4.11 | 1.96 | 26.518 | 20.555 | 4.11 | -22.03 | 7.38 | 0 |
| 5320 | 49.14 | -3.09 | 4.29 | 2.14 | 27.66  | 21.483 | 4.29 | -21.63 | 7.38 | 0 |
| 5330 | 48.75 | -3.12 | 4.18 | 2.03 | 27.456 | 21.292 | 4.18 | -21.37 | 7.3  | 0 |
| 5340 | 51.01 | -2.92 | 4.27 | 2.12 | 28.599 | 22.412 | 4.27 | -21.71 | 7.19 | 0 |
| 5350 | 50.79 | -2.94 | 4.15 | 2    | 28.39  | 22.397 | 4.15 | -22.37 | 7.1  | 0 |
| 5360 | 49.79 | -3.03 | 3.92 | 1.77 | 27.779 | 22.011 | 3.92 | -24.28 | 6.95 | 0 |
| 5370 | 50.58 | -2.96 | 3.91 | 1.76 | 28.17  | 22.41  | 3.91 | -23.71 | 6.87 | 0 |
| 5380 | 49.94 | -3.02 | 3.75 | 1.6  | 27.825 | 22.116 | 3.75 | -21.8  | 6.76 | 0 |

|                                                                                                                                              |                                                                      |                    |                    |                    |                |
|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------|--------------------|--------------------|----------------|
| <br>深圳市华创翔科技有限公司<br>Shenzhen Wacosun Technology<br>Co., Ltd | 2.4G~5.8G 3.5dbi 黑色弯头扁<br>壳天线 Antenna 带 IPEX<br>P/N.: HCX-B536W.3440 | DOC.NO.:HCX024-042 |                    | Rev.:A             | Page:13/<br>14 |
|                                                                                                                                              |                                                                      | Approved/<br>Date  | Checked/Date       | Written/Date       |                |
|                                                                                                                                              |                                                                      | Jeff<br>10/10/24'  | Kevin<br>10/10/24' | Marco<br>10/10/23' |                |

|      |       |       |      |       |        |        |      |        |      |    |
|------|-------|-------|------|-------|--------|--------|------|--------|------|----|
| 5390 | 47.52 | -3.23 | 3.48 | 1.33  | 26.473 | 21.048 | 3.48 | -20.3  | 6.71 | 0  |
| 5400 | 51.83 | -2.85 | 3.76 | 1.61  | 28.937 | 22.894 | 3.76 | -17.71 | 6.62 | 0  |
| 5410 | 50.04 | -3.01 | 3.54 | 1.39  | 27.978 | 22.062 | 3.54 | -16.59 | 6.54 | 0  |
| 5420 | 50.13 | -3    | 3.42 | 1.27  | 28.116 | 22.017 | 3.42 | -15.93 | 6.41 | 0  |
| 5430 | 49.1  | -3.09 | 3.15 | 1     | 27.642 | 21.455 | 3.15 | -15.55 | 6.24 | 30 |
| 5440 | 48.43 | -3.15 | 2.93 | 0.78  | 27.338 | 21.089 | 2.93 | -15.98 | 6.08 | 30 |
| 5450 | 48.4  | -3.15 | 2.8  | 0.65  | 27.331 | 21.066 | 2.8  | -16.15 | 5.95 | 30 |
| 5460 | 48.17 | -3.17 | 2.63 | 0.48  | 27.259 | 20.909 | 2.63 | -17.01 | 5.8  | 30 |
| 5470 | 48.94 | -3.1  | 2.63 | 0.48  | 27.676 | 21.26  | 2.63 | -17.43 | 5.73 | 30 |
| 5480 | 49    | -3.1  | 2.53 | 0.38  | 27.777 | 21.222 | 2.53 | -18.17 | 5.63 | 30 |
| 5490 | 48.27 | -3.16 | 2.4  | 0.25  | 27.317 | 20.953 | 2.4  | -19.45 | 5.57 | 60 |
| 5500 | 48.27 | -3.16 | 2.35 | 0.2   | 27.356 | 20.91  | 2.35 | -20.57 | 5.51 | 0  |
| 5510 | 47.42 | -3.24 | 2.19 | 0.04  | 26.856 | 20.569 | 2.19 | -20.97 | 5.43 | 60 |
| 5520 | 47.39 | -3.24 | 2.17 | 0.02  | 26.777 | 20.609 | 2.17 | -21.57 | 5.42 | 60 |
| 5530 | 47.89 | -3.2  | 2.16 | 0.01  | 26.963 | 20.923 | 2.16 | -21.47 | 5.36 | 60 |
| 5540 | 47.32 | -3.25 | 2.12 | -0.03 | 26.476 | 20.84  | 2.12 | -22.18 | 5.37 | 60 |
| 5550 | 47.21 | -3.26 | 2.03 | -0.12 | 26.209 | 20.998 | 2.03 | -21.96 | 5.29 | 60 |
| 5560 | 46.78 | -3.3  | 1.77 | -0.38 | 25.733 | 21.045 | 1.77 | -22.18 | 5.07 | 60 |
| 5570 | 46.36 | -3.34 | 1.64 | -0.51 | 25.361 | 20.996 | 1.64 | -22.97 | 4.98 | 0  |
| 5580 | 45.85 | -3.39 | 1.49 | -0.66 | 24.857 | 20.995 | 1.49 | -22.65 | 4.87 | 60 |
| 5590 | 44.13 | -3.55 | 1.36 | -0.79 | 23.783 | 20.348 | 1.36 | -23.56 | 4.91 | 60 |
| 5600 | 43.69 | -3.6  | 1.35 | -0.8  | 23.344 | 20.347 | 1.35 | -23.17 | 4.95 | 60 |
| 5610 | 42.61 | -3.71 | 1.28 | -0.87 | 22.721 | 19.888 | 1.28 | -22.64 | 4.99 | 60 |
| 5620 | 42.41 | -3.73 | 1.14 | -1.01 | 22.615 | 19.798 | 1.14 | -22.17 | 4.86 | 60 |
| 5630 | 41.74 | -3.79 | 0.97 | -1.18 | 22.33  | 19.414 | 0.97 | -21.19 | 4.76 | 60 |
| 5640 | 41.81 | -3.79 | 0.97 | -1.18 | 22.422 | 19.385 | 0.97 | -21.4  | 4.76 | 60 |
| 5650 | 41.16 | -3.86 | 0.83 | -1.32 | 22.124 | 19.036 | 0.83 | -21.95 | 4.69 | 60 |

|                                                                                                                                              |                                                                             |                    |                    |                    |                |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------|--------------------|--------------------|----------------|
| <br>深圳市华创翔科技有限公司<br>Shenzhen Wacosun Technology<br>Co., Ltd | 2.4G~5.8G 3.5dbi 黑色弯头扁<br>壳天线 Antenna 带 IPEX<br><b>P/N.: HCX-B536W.3440</b> | DOC.NO.:HCX024-042 |                    | Rev.:A             | Page:14/<br>14 |
|                                                                                                                                              |                                                                             | Approved/<br>Date  | Checked/Date       | Written/Date       |                |
|                                                                                                                                              |                                                                             | Jeff<br>10/10/24'  | Kevin<br>10/10/24' | Marco<br>10/10/23' |                |

|      |       |       |      |       |        |        |      |        |      |    |
|------|-------|-------|------|-------|--------|--------|------|--------|------|----|
| 5650 | 41.16 | -3.86 | 0.83 | -1.32 | 22.124 | 19.036 | 0.83 | -21.95 | 4.69 | 60 |
| 5660 | 41.88 | -3.78 | 0.98 | -1.17 | 22.556 | 19.326 | 0.98 | -21.9  | 4.76 | 60 |
| 5670 | 42.5  | -3.72 | 1.03 | -1.12 | 22.962 | 19.534 | 1.03 | -22.47 | 4.75 | 60 |
| 5680 | 41.13 | -3.86 | 0.87 | -1.28 | 22.259 | 18.867 | 0.87 | -21.89 | 4.73 | 60 |
| 5690 | 40.86 | -3.89 | 0.82 | -1.33 | 22.238 | 18.627 | 0.82 | -22.07 | 4.71 | 60 |
| 5700 | 39.16 | -4.07 | 0.42 | -1.73 | 21.375 | 17.786 | 0.42 | -22.19 | 4.49 | 60 |
| 5710 | 40.94 | -3.88 | 0.48 | -1.67 | 22.426 | 18.51  | 0.48 | -22.48 | 4.36 | 0  |
| 5720 | 41.2  | -3.85 | 0.54 | -1.61 | 22.576 | 18.626 | 0.54 | -23.28 | 4.39 | 0  |
| 5730 | 43.53 | -3.61 | 0.84 | -1.31 | 23.854 | 19.68  | 0.84 | -24.19 | 4.46 | 0  |
| 5740 | 41.75 | -3.79 | 0.66 | -1.49 | 22.849 | 18.9   | 0.66 | -25.73 | 4.45 | 0  |
| 5750 | 42.76 | -3.69 | 0.69 | -1.46 | 23.413 | 19.343 | 0.69 | -26.75 | 4.38 | 0  |
| 5760 | 41.86 | -3.78 | 0.5  | -1.65 | 22.956 | 18.901 | 0.5  | -26.23 | 4.29 | 0  |
| 5770 | 43.33 | -3.63 | 0.48 | -1.67 | 23.769 | 19.559 | 0.48 | -25.63 | 4.11 | 0  |
| 5780 | 44.31 | -3.54 | 0.49 | -1.66 | 24.33  | 19.977 | 0.49 | -24.23 | 4.03 | 0  |
| 5790 | 43.36 | -3.63 | 0.32 | -1.83 | 23.747 | 19.615 | 0.32 | -23.6  | 3.94 | 0  |
| 5800 | 43.71 | -3.59 | 0.32 | -1.83 | 23.919 | 19.791 | 0.32 | -22.51 | 3.91 | 0  |
| 5810 | 43.59 | -3.61 | 0.53 | -1.62 | 23.786 | 19.799 | 0.53 | -22.11 | 4.14 | 0  |
| 5820 | 45.75 | -3.4  | 0.9  | -1.25 | 24.924 | 20.823 | 0.9  | -20.85 | 4.3  | 0  |
| 5830 | 46.35 | -3.34 | 1.1  | -1.05 | 25.267 | 21.081 | 1.1  | -19.96 | 4.44 | 0  |
| 5840 | 46.56 | -3.32 | 1.2  | -0.95 | 25.494 | 21.068 | 1.2  | -19.38 | 4.52 | 0  |
| 5850 | 46.46 | -3.33 | 1.16 | -0.99 | 25.478 | 20.98  | 1.16 | -19.12 | 4.49 | 0  |

结论：综合以上数据，数据判定 OK, 产品可量产。

---报告内容结束---

---The end---