

## 司南微电子（深圳）有限公司

SINAWELL Electronics(Shenzhen) Co., Ltd.

|                      |                                      |
|----------------------|--------------------------------------|
| Customer Name        | Shenzhen cannice Technology Co., Ltd |
| Product Name         | A1615-R                              |
| Customer Item Number | 300012000386                         |
| Project name         | A1615-R                              |
| Product brand        | SN                                   |
| Product model        | SN1497                               |

|          |                                                             |                                               |                                          |                                      |
|----------|-------------------------------------------------------------|-----------------------------------------------|------------------------------------------|--------------------------------------|
| Appendix | <input checked="" type="checkbox"/> cover                   | <input checked="" type="checkbox"/> buleprint | <input type="checkbox"/> FAI report      | <input type="checkbox"/> CPK report告 |
|          | <input checked="" type="checkbox"/> Reliability Test Report | <input type="checkbox"/> 3D model             | <input checked="" type="checkbox"/> RoHS | <input type="checkbox"/> UN38.3      |

|           |         |              |            |
|-----------|---------|--------------|------------|
| Supplier  | Make    | Audit        | Approval   |
| Signature | Chen de | Li xiao long | Zhang ping |

|           |      |       |          |
|-----------|------|-------|----------|
| Customer  | Make | Audit | Approval |
| Signature |      |       |          |

|                 |                                                  |                                                |
|-----------------|--------------------------------------------------|------------------------------------------------|
| Admit condition | <input type="checkbox"/> admit                   | <input type="checkbox"/> Denial of recognition |
|                 | <input type="checkbox"/> Conditional recognition | Conditions to be satisfied:                    |
|                 | <input type="checkbox"/> Provisional recognition | limit____PCS                                   |

|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| Supplier Information: |                                                                                            |
| Name :                | SINAWELL Electronics(Shenzhen) Co., Ltd.      Contacts : Zhang wen feng                    |
| ADD:                  | 708-718, Jinfulai Building, 49-1 Dabao Road, Xin'an 28 District, Bao'an District, Shenzhen |
| TLE :                 | 0755-29988460      Fax : 0755-29988470                                                     |
| EMAIL:                | zwf@sinawell.cn                                                                            |

Rev: B

## The Main Antenna Sample Confirmation

|                    |                                       |                     |                    |
|--------------------|---------------------------------------|---------------------|--------------------|
| Customer           | Shenzhen CANNICE Technology Co., Ltd. |                     |                    |
| Project Name       | A1615-R                               |                     | Date<br>2025-11-25 |
| Project NO.        | SN1497                                | Notes               | FPC                |
| Frequency Range    | BT                                    |                     |                    |
| Designed By        | RF Engineer                           | Structural Engineer |                    |
|                    |                                       |                     |                    |
| Checked By         | Engineering Manager                   |                     |                    |
|                    |                                       |                     |                    |
| Client' s Approval |                                       |                     |                    |

Designer: SINAWELL Electronics(Shenzhen) Co., Ltd.

Add: 712-717, Block A Jinfulai Building,49-1 Dabao Road,Xinan 28<sup>th</sup> area,Baoan District,Shenzhen,China

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## 1. Specification description

This specification describes the status of the A1615-R internal antenna with a frequency band of 2400MHz-2500MHz.

## 2. Antenna appearance



## 3. Electrical performance

### 3.1. Antenna band

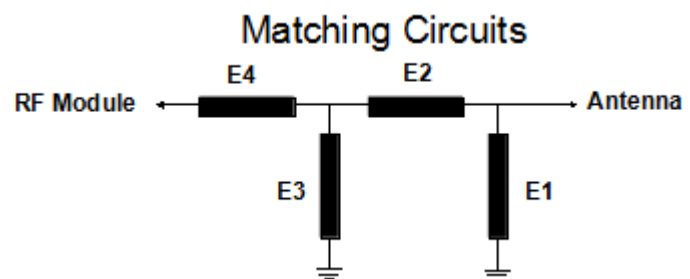
|                        | BT              |
|------------------------|-----------------|
| Transmitting band(MHz) | 2400MHz-2500MHz |

### 3.2. Matching Circuit

After the test point is at the antenna connector (RF test port), see the figure below.

#### 1. BT antenna matching.

| Element  | Value      |
|----------|------------|
| E1(0402) | 1.5NH      |
| E2(0402) | 0 $\Omega$ |
| E3(0402) | NC         |
| E4(0402) | 0 $\Omega$ |

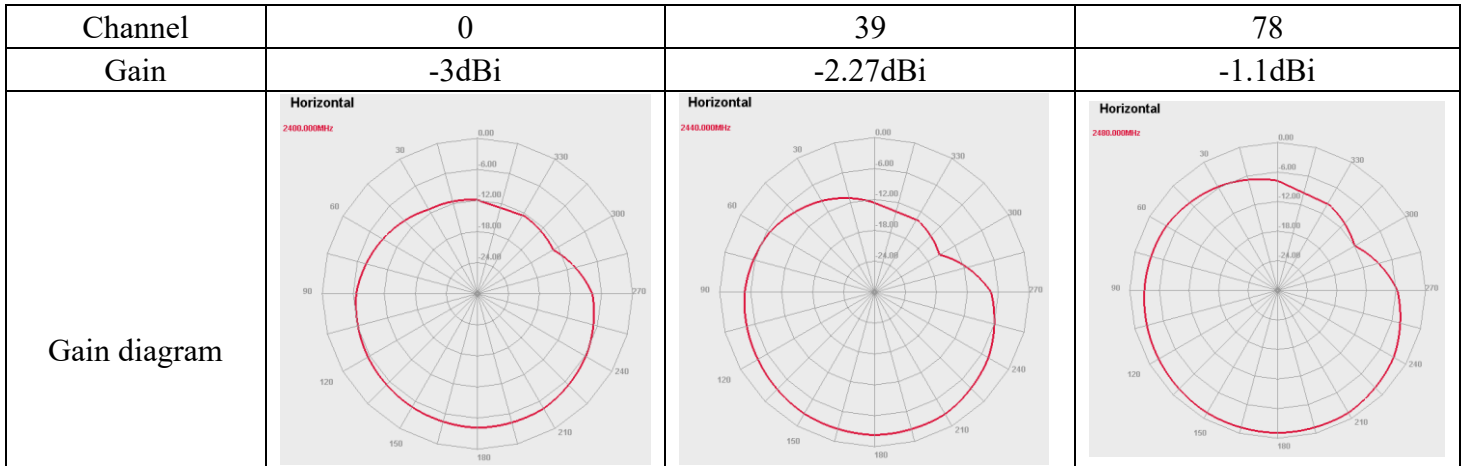


### 3.3. Return Loss

BT VSWR+ Return

|  | Resonant Point Range(MHz) | Frequency point(MHz)/Maximum Echo Loss(dB) |         |         |
|--|---------------------------|--------------------------------------------|---------|---------|
|  | 2400-2500                 |                                            | 2400    | 2500    |
|  |                           | VSWR                                       | 1.63    | 1.78    |
|  |                           | Return loss                                | -12.414 | -11.039 |

### 3.4. Antenna Gain



| Passive Test For |          |           |            |            |         |         |          |          |             |             |
|------------------|----------|-----------|------------|------------|---------|---------|----------|----------|-------------|-------------|
| Freq (MHz)       | Effi (%) | Effi (dB) | Gain (dBi) | Gain (dBd) | UHS (%) | DHS (%) | Max (dB) | Min (dB) | Attenut Hor | Attenut Ver |
| 2400             | 23.51    | -6.29     | -3         | -5.15      | 12.542  | 10.968  | -3       | -16.87   | 46.5        | 45.85       |
| 2410             | 26.37    | -5.79     | -2.41      | -4.56      | 13.584  | 12.783  | -2.41    | -17.25   | 46.61       | 46.05       |
| 2420             | 25.96    | -5.86     | -2.44      | -4.59      | 12.828  | 13.128  | -2.44    | -18.07   | 46.59       | 46.17       |
| 2430             | 26.38    | -5.79     | -2.45      | -4.6       | 12.574  | 13.811  | -2.45    | -18.33   | 46.77       | 46.14       |
| 2440             | 25.22    | -5.98     | -2.27      | -4.42      | 11.849  | 13.371  | -2.27    | -18.29   | 46.79       | 45.97       |
| 2450             | 25.74    | -5.89     | -2.01      | -4.16      | 12      | 13.737  | -2.01    | -17.65   | 46.58       | 45.82       |
| 2460             | 27.74    | -5.57     | -1.59      | -3.74      | 13.071  | 14.665  | -1.59    | -16.96   | 46.74       | 45.97       |
| 2470             | 29.05    | -5.37     | -1.44      | -3.59      | 13.679  | 15.366  | -1.44    | -17.61   | 46.54       | 45.98       |
| 2480             | 32.38    | -4.9      | -1.1       | -3.25      | 15.191  | 17.187  | -1.1     | -18.13   | 46.48       | 46.46       |
| 2490             | 30.49    | -5.16     | -1.42      | -3.57      | 14.189  | 16.3    | -1.42    | -19.28   | 46.53       | 46.76       |
| 2500             | 31.29    | -5.05     | -1.18      | -3.33      | 14.528  | 16.765  | -1.18    | -19.05   | 46.77       | 46.39       |

## 4. Appearance structure

### 4.1. Antenna Material

## 5. Notes

(Electrical Performance Test Report)

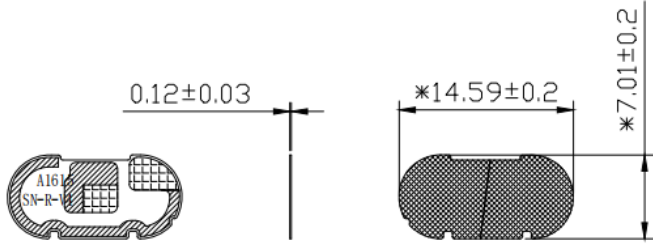
In the electrical performance test report, the 3D darkroom data for manufacturers are provided.

The following table format

## Appendix 1: (Mechanical drawing)

## Appendix II (Performance report)

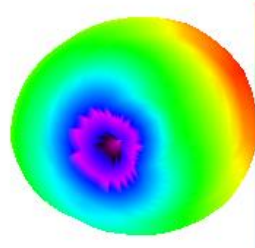
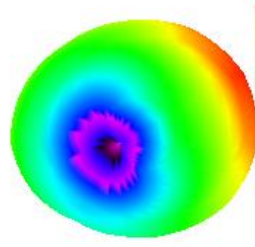
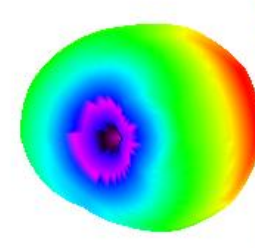
## FPC Mechanical drawing(Annex I)

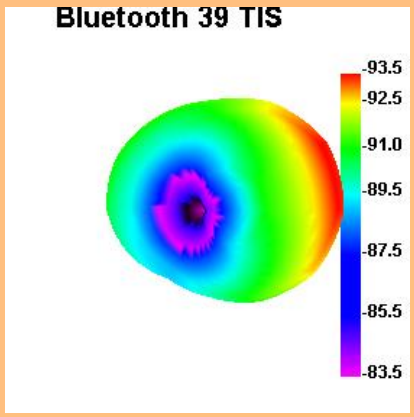
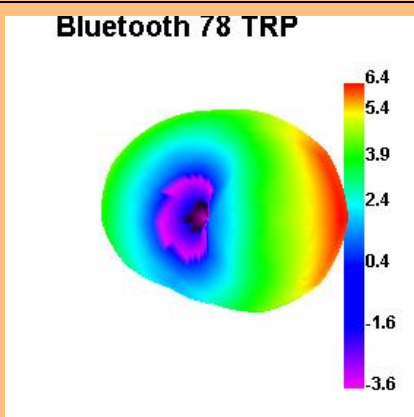
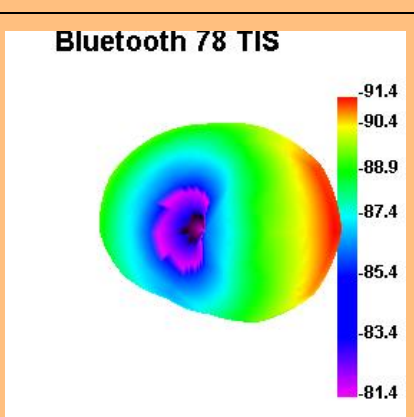
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2                                                                                                                           | 3                                                | 4          | 5                                 | 6 | 7 | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------|-----------------------------------|---|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------|--|--|------|--------------------|------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---|------|-------|------------|--------------------------------------------------|-------|-----------------------------------|-------|-----------|----------|-------|-----------|--------------|----------------|------|------------|--------------|------------|----|--|--------------|-------------|----|--|----------|--|---------|--|--|--|------|----|--|--|-------|-----|--|--|------|---|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <div style="text-align: center;">  </div> |                                                  |            |                                   |   |   | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4">The third person</th> </tr> <tr> <td>0~10</td> <td>±0.05</td> <td>○</td> <td>0.02</td> </tr> <tr> <td>10~18</td> <td>±0.10</td> <td>●</td> <td>0.03</td> </tr> <tr> <td>18~30</td> <td>±0.12</td> <td>⊥</td> <td>0.02</td> </tr> <tr> <td>30~40</td> <td>±0.15</td> <td>∠</td> <td>0.04</td> </tr> <tr> <td>40~</td> <td>±0.20</td> <td>Angle</td> <td>±0.5°</td> </tr> </table> | The third person |             |  |  | 0~10 | ±0.05              | ○    | 0.02    | 10~18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ±0.10 | ● | 0.03 | 18~30 | ±0.12      | ⊥                                                | 0.02  | 30~40                             | ±0.15 | ∠         | 0.04     | 40~   | ±0.20     | Angle        | ±0.5°          |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
| The third person                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                             |                                                  |            |                                   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
| 0~10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ±0.05                                                                                                                       | ○                                                | 0.02       |                                   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
| 10~18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ±0.10                                                                                                                       | ●                                                | 0.03       |                                   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
| 18~30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ±0.12                                                                                                                       | ⊥                                                | 0.02       |                                   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
| 30~40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ±0.15                                                                                                                       | ∠                                                | 0.04       |                                   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
| 40~                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ±0.20                                                                                                                       | Angle                                            | ±0.5°      |                                   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                             |                                                  |            |                                   |   |   | A                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                             |                                                  |            |                                   |   |   | B                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
| C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                             |                                                  |            |                                   |   |   | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
| <p>Notes:</p> <p>1. "*" is the key dimension ;</p> <p>2. Please refer to the drawing if no dimension is indicated;</p> <p>3. Meet rohs2.0, reach environmental protection requirements.</p>                                                                                                                                                                                                                                                                                                                                          |                                                                                                                             |                                                  |            |                                   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
| D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                             |                                                  |            |                                   |   |   | D                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"></td> <td style="width:30%;"></td> <td style="width:30%;"></td> <td style="width:30%;"></td> </tr> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">New drawing</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">Rev.</td> <td style="text-align: center;">Modify the content</td> <td style="text-align: center;">Date</td> <td style="text-align: center;">Remarks</td> </tr> </table> |                                                                                                                             |                                                  |            |                                   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A                | New drawing |  |  | Rev. | Modify the content | Date | Remarks | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%;">1</td> <td style="width:25%;">BT antenna</td> <td style="width:30%;">Electrolytic copper<br/>One and a half substrates</td> <td style="width:10%;">Black</td> <td style="width:30%;">Gold Finger Plating<br/>AD: 3M9471</td> </tr> <tr> <td>No.</td> <td>Part name</td> <td>Material</td> <td>Color</td> <td>Thickness</td> </tr> </table> <div style="text-align: center;">  <b>司南微电子(深圳)有限公司</b><br/> <b>SINAWELL Electronics (Shenzhen) Co., LTD</b> </div> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">Project name</td> <td style="width:30%;">A1615 (SN1497)</td> <td style="width:20%;">Date</td> <td style="width:20%;">2025-11-25</td> </tr> <tr> <td>Product name</td> <td>BT antenna</td> <td>ME</td> <td></td> </tr> <tr> <td>Material no.</td> <td>SN1497-BT-R</td> <td>RF</td> <td></td> </tr> <tr> <td>Material</td> <td></td> <td>Project</td> <td></td> </tr> <tr> <td colspan="2"></td> <td>Unit</td> <td>mm</td> </tr> <tr> <td colspan="2"></td> <td>Scale</td> <td>1:1</td> </tr> <tr> <td colspan="2"></td> <td>Rev.</td> <td>A</td> </tr> </table> |       |   |      | 1     | BT antenna | Electrolytic copper<br>One and a half substrates | Black | Gold Finger Plating<br>AD: 3M9471 | No.   | Part name | Material | Color | Thickness | Project name | A1615 (SN1497) | Date | 2025-11-25 | Product name | BT antenna | ME |  | Material no. | SN1497-BT-R | RF |  | Material |  | Project |  |  |  | Unit | mm |  |  | Scale | 1:1 |  |  | Rev. | A |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                             |                                                  |            |                                   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | New drawing                                                                                                                 |                                                  |            |                                   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
| Rev.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Modify the content                                                                                                          | Date                                             | Remarks    |                                   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BT antenna                                                                                                                  | Electrolytic copper<br>One and a half substrates | Black      | Gold Finger Plating<br>AD: 3M9471 |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
| No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Part name                                                                                                                   | Material                                         | Color      | Thickness                         |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
| Project name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A1615 (SN1497)                                                                                                              | Date                                             | 2025-11-25 |                                   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
| Product name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BT antenna                                                                                                                  | ME                                               |            |                                   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
| Material no.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SN1497-BT-R                                                                                                                 | RF                                               |            |                                   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
| Material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                             | Project                                          |            |                                   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                             | Unit                                             | mm         |                                   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                             | Scale                                            | 1:1        |                                   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                             | Rev.                                             | A          |                                   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2                                                                                                                           | 3                                                | 4          | 5                                 | 6 | 7 | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |             |  |  |      |                    |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |   |      |       |            |                                                  |       |                                   |       |           |          |       |           |              |                |      |            |              |            |    |  |              |             |    |  |          |  |         |  |  |  |      |    |  |  |       |     |  |  |      |   |

### Focus on size

| NO | Size<br>(mm) | Tolerance(mm) | Notes |
|----|--------------|---------------|-------|
| 1  | 14.59        | ±0.2          |       |
| 2  | 7.01         | ±0.2          |       |
| 3  | 0.12         | ±0.03         |       |
| 4  |              |               |       |
| 5  |              |               |       |
| 6  |              |               |       |

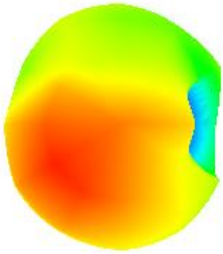
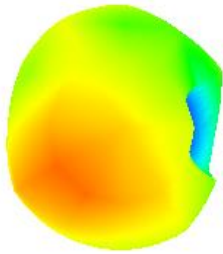
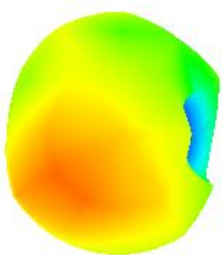
## 3D Test Report (FS)

| BT  | Channel | 3DCoupling Test | Field strength map                                                                                            |
|-----|---------|-----------------|---------------------------------------------------------------------------------------------------------------|
| TRP | 0       | 2.33            | <p>Bluetooth 0 TRP</p>     |
| TIS | 0       | -90.12          | <p>Bluetooth 0 TIS</p>   |
| TRP | 39      | 2.61            | <p>Bluetooth 39 TRP</p>  |

|     |    |        |                                                                                                                  |
|-----|----|--------|------------------------------------------------------------------------------------------------------------------|
| TIS | 39 | -90.19 | <div>Bluetooth 39 TIS</div>   |
| TRP | 78 | 2.57   | <div>Bluetooth 78 TRP</div>  |
| TIS | 78 | -90.06 | <div>Bluetooth 78 TIS</div> |

## 3D Test Report (BH)

| BT  | Channel | 3DCoupling Test | Field strength map      |
|-----|---------|-----------------|-------------------------|
| TRP | 0       | -3.41           | <p>Bluetooth 0 TRP</p>  |
| TIS | 0       | -82.11          | <p>Bluetooth 0 TIS</p>  |
| TRP | 39      | -2.64           | <p>Bluetooth 39 TRP</p> |

|     |    |        |                                                                                                                                                                                               |
|-----|----|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TIS | 39 | -82.68 | <p><b>Bluetooth 39 TIS</b></p>  <p>-89.2<br/>-84.9<br/>-78.5<br/>-72.0<br/>-63.4<br/>-54.8<br/>-46.2</p>   |
| TRP | 78 | -3.34  | <p><b>Bluetooth 78 TRP</b></p>  <p>2.2<br/>-1.9<br/>-8.0<br/>-14.2<br/>-22.4<br/>-30.6<br/>-38.9</p>      |
| TIS | 78 | -81.17 | <p><b>Bluetooth 78 TIS</b></p>  <p>-86.4<br/>-82.3<br/>-76.1<br/>-69.9<br/>-61.7<br/>-53.5<br/>-45.3</p> |