

# 承認書

## SPECIFICATION FOR APPROVAL

|                      |                         |
|----------------------|-------------------------|
| <i>CUSTOMER:</i>     |                         |
| <i>CUSTOMER P/N</i>  |                         |
| <i>PART NO:</i>      |                         |
| <i>DESCRIPTION:</i>  | <i>SMD INDUCTOR</i>     |
| <i>PRODUCTS NO:</i>  | <i>BCNR3015CG1-3R3N</i> |
| <i>PRODUCTS REV:</i> | <i>01</i>               |
| <i>DATE:</i>         | <i>2018-6-11</i>        |

|                            |  |  |
|----------------------------|--|--|
| <i>PURCHASER CONFIRMED</i> |  |  |
|                            |  |  |
| <i>REMARK</i>              |  |  |

|                                |                 |                 |
|--------------------------------|-----------------|-----------------|
| <i>PROVIDER ENGINEER DEPT.</i> |                 |                 |
| <i>APPROVAL BY</i>             | <i>CHECK BY</i> | <i>DRAWN BY</i> |
|                                |                 | chenlinli       |



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# SPECIFICATION FOR APPROVAL

|                         |                |          |
|-------------------------|----------------|----------|
| <b>BCNR3015CG1-3R3N</b> | <b>Rev.No.</b> | <b>A</b> |
|                         | <b>Page</b>    | <b>2</b> |

|  |   |            |            |             |              |              |              |             |             |             |
|--|---|------------|------------|-------------|--------------|--------------|--------------|-------------|-------------|-------------|
| <b><u>I. CONFIGURATION &amp; DIMENSIONS:</u></b> | <b>UNIT: mm</b>   |            |            |             |              |              |              |             |             |             |
| <p style="text-align: center;">黑色印字</p>          | <table style="width: 100%; border-collapse: collapse;"> <tr><td>A: 3.0±0.2</td></tr> <tr><td>B: 3.0±0.2</td></tr> <tr><td>C: 1.50 MAX</td></tr> <tr><td>D: 2.50±0.20</td></tr> <tr><td>E: 0.75±0.20</td></tr> <tr><td>F: 1.50±0.20</td></tr> <tr><td>G: 2.70 TYP</td></tr> <tr><td>H: 1.50 TYP</td></tr> <tr><td>I: 0.80 TYP</td></tr> </table> | A: 3.0±0.2 | B: 3.0±0.2 | C: 1.50 MAX | D: 2.50±0.20 | E: 0.75±0.20 | F: 1.50±0.20 | G: 2.70 TYP | H: 1.50 TYP | I: 0.80 TYP |
| A: 3.0±0.2                                       |   |            |            |             |              |              |              |             |             |             |
| B: 3.0±0.2                                       |   |            |            |             |              |              |              |             |             |             |
| C: 1.50 MAX                                      |   |            |            |             |              |              |              |             |             |             |
| D: 2.50±0.20                                     |   |            |            |             |              |              |              |             |             |             |
| E: 0.75±0.20                                     |   |            |            |             |              |              |              |             |             |             |
| F: 1.50±0.20                                     |   |            |            |             |              |              |              |             |             |             |
| G: 2.70 TYP                                      |   |            |            |             |              |              |              |             |             |             |
| H: 1.50 TYP                                      |   |            |            |             |              |              |              |             |             |             |
| I: 0.80 TYP                                      |   |            |            |             |              |              |              |             |             |             |

|   |                             |             |             |     |          |         |       |                    |             |       |                      |         |                                       |  |  |                                     |  |  |  |
|---|-----------------------------|-------------|-------------|-----|----------|---------|-------|--------------------|-------------|-------|----------------------|---------|---------------------------------------|--|--|-------------------------------------|--|--|--|
| <b><u>II ELECTRICAL CHARACTERISTIC:</u></b>   | <b><u>III SCHEMATIC</u></b> |             |             |     |          |         |       |                    |             |       |                      |         |                                       |  |  |                                     |  |  |  |
| <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">L</td> <td style="width: 40%;">3.3uH±30%</td> <td style="width: 50%;">100KHZ/1.0V</td> </tr> <tr> <td>DCR</td> <td>80mΩ±30%</td> <td>at 25°C</td> </tr> <tr> <td>I sat</td> <td>1.32A drop 35% TYP</td> <td>100KHZ/1.0V</td> </tr> <tr> <td>I rms</td> <td>1.36A ΔT of 40°C TYP</td> <td>at 25°C</td> </tr> <tr> <td colspan="3" style="text-align: center;">Operating temp range: -40°C----+125°C</td> </tr> <tr> <td colspan="3" style="text-align: center;">Storage temp range: -40°C----+125°C</td> </tr> </table> | L                           | 3.3uH±30%   | 100KHZ/1.0V | DCR | 80mΩ±30% | at 25°C | I sat | 1.32A drop 35% TYP | 100KHZ/1.0V | I rms | 1.36A ΔT of 40°C TYP | at 25°C | Operating temp range: -40°C----+125°C |  |  | Storage temp range: -40°C----+125°C |  |  |  |
| L   | 3.3uH±30%                   | 100KHZ/1.0V |             |     |          |         |       |                    |             |       |                      |         |                                       |  |  |                                     |  |  |  |
| DCR   | 80mΩ±30%                    | at 25°C     |             |     |          |         |       |                    |             |       |                      |         |                                       |  |  |                                     |  |  |  |
| I sat   | 1.32A drop 35% TYP          | 100KHZ/1.0V |             |     |          |         |       |                    |             |       |                      |         |                                       |  |  |                                     |  |  |  |
| I rms   | 1.36A ΔT of 40°C TYP        | at 25°C     |             |     |          |         |       |                    |             |       |                      |         |                                       |  |  |                                     |  |  |  |
| Operating temp range: -40°C----+125°C   |                             |             |             |     |          |         |       |                    |             |       |                      |         |                                       |  |  |                                     |  |  |  |
| Storage temp range: -40°C----+125°C   |                             |             |             |     |          |         |       |                    |             |       |                      |         |                                       |  |  |                                     |  |  |  |

| <b><u>IV. MATERIALS:</u></b> |              |                          |                   |
|------------------------------|--------------|--------------------------|-------------------|
| NO.                          | DESCRIPTION  | MATERIAL                 | MANUFACTURER      |
| a.                           | CORE         | FERRITE                  | YOU NAI or etc.   |
| b.                           | WIRE         | G1 P180 0.14*10.75Ts REF | ELEKTRISOLA       |
| c.                           | SOLDER       | Sn99.3Cu0.7              | QIAN DAO or etc.  |
| d.                           | INKING       | BLACK                    | RI LI or etc.     |
| e.                           | CARRDER TAPE | TRANSPARENT              | JIN CHENG or etc. |
| f.                           |              |                          |                   |
|                              |              |                          |                   |

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|------------------|----------------------|---------|-----------------------|-------------------------|---------|---|
|                  |                      |         |                       |                         | Page    | 3 |
| Meas. Item       | Electrical character |         |                       |                         |         |   |
|                  | L                    | DCR     | I sat                 | I rms                   |         |   |
| Spec.            | 3.3±30%              | 80±30%  | 1.32A drop 35%<br>TYP | 1.36A ΔT of 40°C<br>TYP |         |   |
| Unit             | uH                   | mΩ      | uH                    |                         |         |   |
| Test condition   | 100KHz/ 1.0V         | at 20°C | 100KHz/1.0V           | at 25°C                 |         |   |
| 1                | 3.41                 | 84.20   | 2.82                  | ok                      |         |   |
| 2                | 3.31                 | 85.30   | 2.90                  | ok                      |         |   |
| 3                | 3.49                 | 85.30   | 2.92                  | ok                      |         |   |
| 4                | 3.26                 | 85.40   | 2.91                  | ok                      |         |   |
| 5                | 3.19                 | 84.80   | 2.88                  | ok                      |         |   |
| 6                |                      |         |                       |                         |         |   |
| 7                |                      |         |                       |                         |         |   |
| 8                |                      |         |                       |                         |         |   |
| 9                |                      |         |                       |                         |         |   |
| 10               |                      |         |                       |                         |         |   |
| $\bar{X}$        | 3.33                 | 85.00   | 2.89                  | ok                      |         |   |
| max              | 3.49                 | 85.40   | 2.92                  | ok                      |         |   |
| min              | 3.19                 | 84.20   | 2.82                  | ok                      |         |   |
| R                | 0.30                 | 1.20    | 0.10                  | ok                      |         |   |

**TEST INSTRUMENT:**

- |   |   |
|---|---|
| <input type="checkbox"/> HP4284AHP4285A METER LCD &DCR&Q&IDC&SRF<br><input type="checkbox"/> HP4192A METER LCD&Z.<br><input type="checkbox"/> HP4287A METER LCD&Z&SRF.<br><input type="checkbox"/> HP4284A&HP42841A METER LCD &DCR&IDC&SRF.<br><input type="checkbox"/> | <input type="checkbox"/> CH502BC METER DCR.<br><input type="checkbox"/> CH9052BC METER HI-POT &I .R.<br>VR126G/7220 METER IDC<br><input type="checkbox"/> CH2815 METER LCD.<br><input type="checkbox"/> |
|---|---|

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# SPECIFICATION FOR APPROVAL

| BCNR3015CG1-3R3N |                       |        |        |  |  |  |  | Rev.No. | A |
|------------------|-----------------------|--------|--------|--|--|--|--|---------|---|
|                  |                       |        |        |  |  |  |  | Page    | 4 |
| Meas.<br>Item    | Mechanical dimensions |        |        |  |  |  |  |         |   |
|                  | A(m/m)                | B(m/m) | C(m/m) |  |  |  |  |         |   |
| <b>Spec.</b>     | 3.0                   | 3.0    | 1.5    |  |  |  |  |         |   |
| <b>Tolerance</b> | ±                     | ±      | Max    |  |  |  |  |         |   |
|                  | 0.20                  | 0.20   |        |  |  |  |  |         |   |
| 1                | 3.02                  | 3.02   | 1.41   |  |  |  |  |         |   |
| 2                | 3.03                  | 3.04   | 1.42   |  |  |  |  |         |   |
| 3                | 3.05                  | 3.02   | 1.38   |  |  |  |  |         |   |
| 4                | 3.04                  | 3.00   | 1.39   |  |  |  |  |         |   |
| 5                | 3.05                  | 3.03   | 1.42   |  |  |  |  |         |   |
| 6                |                       |        |        |  |  |  |  |         |   |
| 7                |                       |        |        |  |  |  |  |         |   |
| 8                |                       |        |        |  |  |  |  |         |   |
| 9                |                       |        |        |  |  |  |  |         |   |
| 10               |                       |        |        |  |  |  |  |         |   |
| —<br>X           | 3.04                  | 3.02   | 1.40   |  |  |  |  |         |   |
| max              | 3.05                  | 3.04   | 1.42   |  |  |  |  |         |   |
| min              | 3.02                  | 3.00   | 1.38   |  |  |  |  |         |   |
| R                | 0.03                  | 0.04   | 0.04   |  |  |  |  |         |   |
| REMARK:          |                       |        |        |  |  |  |  |         |   |

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## BCNR3015CG1-3R3N

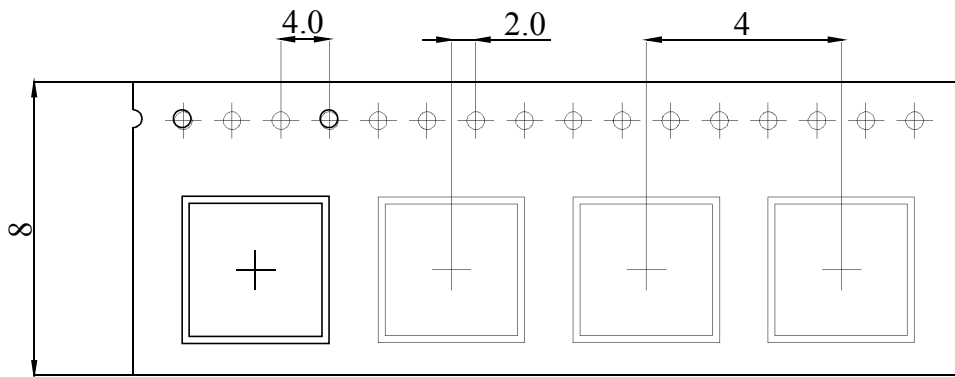
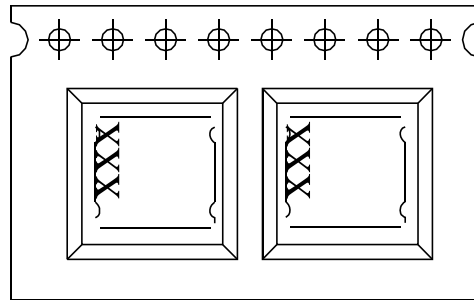
Rev.No.

A

Page

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**PACKAGE:**



| Carrier tape (W) | Carrier tape (P) | Reel Spec | Reel QTY (PCS/R) | inner box QTY (PCS) | outer box QTY (PCS) | 封带方式 |
|------------------|------------------|-----------|------------------|---------------------|---------------------|------|
| 8mm              | 4mm              | 7inch     | 2000             | 8000                | 40000               | 热封   |

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