

# 承 认 书

## SPECIFICATION FOR APPROVAL

|                      |                    |              |   |
|----------------------|--------------------|--------------|---|
| CUSTOMER             |                    |              |   |
| CUSTOMER'S P/N       |                    |              |   |
| DATE                 | 07/Feb/2025        | REVISION NO. | A |
| PART NO.             | CKNR3010BLD Series |              |   |
| DRAWN NO.            |                    |              |   |
| DESCRIPTION.         | SMD POWER INDUCTOR |              |   |
| Customer's Signature |                    |              |   |
|                      |                    |              |   |
| Approved by          | Checked by         | Drawn by     |   |
| 黄大燕                  | 黄大燕                | 林树英          |   |
| 07/Feb/2025          | 07/Feb/2025        | 07/Feb/2025  |   |



广东今凯电子科技有限公司

GUANG DONG CHK ELECTRONIC TECH Co., Ltd

广东省佛山市顺德区北滘万洋科创园二区3栋

Building 3, District 2, Beijiao Wanyang Science and Technology  
Innovation Park, Shunde District, Foshan City, Guangdong Province

[www.gzchk.com](http://www.gzchk.com)



[illegible]

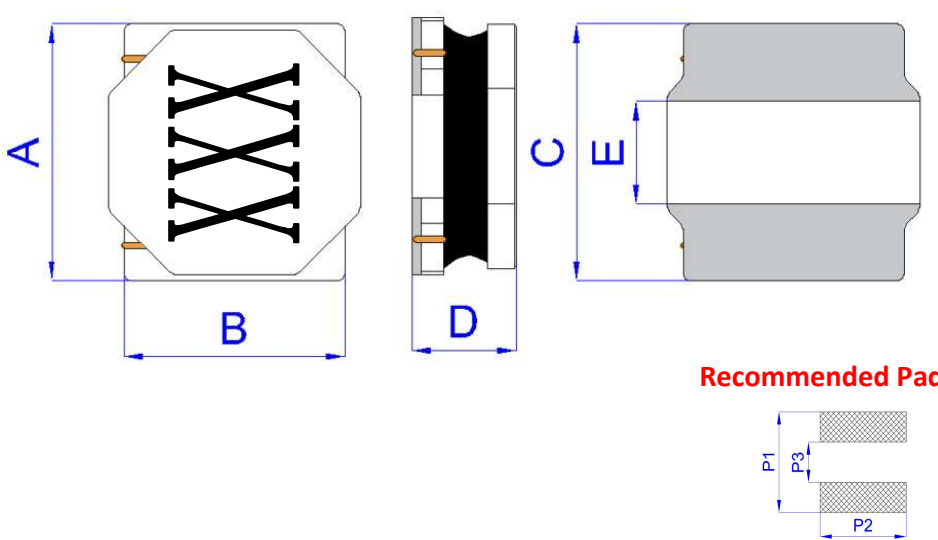
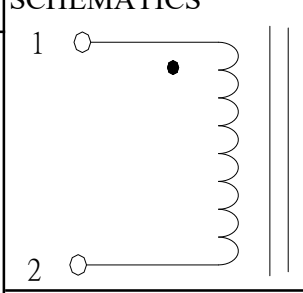


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| CUSTOMER       | 0                  | REVISION NO. | A        |
| CUSTOMER'S P/N | 0                  | PAGE         | P 1/8    |
| DESCRIPTION.   | SMD POWER INDUCTOR | DRAWN NO.    | 0        |
| PART NO.       | CKNR3010BLD Series | DATE         | 2025/2/7 |

1.SHAPE & DIMENSION

|                                                                                     |      |      |      |      |      |                                                                                     |      |
|-------------------------------------------------------------------------------------|------|------|------|------|------|-------------------------------------------------------------------------------------|------|
| UNIT: mm                                                                            |      |      |      |      |      | SCHEMATICS                                                                          |      |
|  |      |      |      |      |      |  |      |
|                                                                                     |      |      |      |      |      | MARKING COLOR                                                                       |      |
|                                                                                     |      |      |      |      |      | BLACK                                                                               |      |
| A                                                                                   | B    | C    | D    | E    | P1   | P2                                                                                  | P3   |
| 3                                                                                   | 3    | 3    | 0.9  | 1    | 3.0  | 2.7                                                                                 | 1.4  |
| ±0.2                                                                                | ±0.2 | ±0.2 | ±0.1 | ±0.3 | Ref. | Ref.                                                                                | Ref. |

PART NUMBERING SYSTEM

| CK | NR                      | 3010 | BLD | - | 2R2                  | M     | C      |
|----|-------------------------|------|-----|---|----------------------|-------|--------|
| 1  | 2                       | 3    | 4   |   | 5                    | 6     | 7      |
| 1  | CHK PRODUCTION (今凯制造)   |      |     |   |                      |       |        |
| 2  | PRODUCT CATEGORY (产品种类) |      |     |   |                      | NR-镍锌 | NRS-合金 |
| 3  | DIMENSIONS (尺寸规格)       |      |     |   |                      |       |        |
| 4  | MAERTIAL TYPE (材料类型)    |      |     |   |                      |       |        |
| 5  | INDUCTANCE (电感量)        |      |     |   |                      |       |        |
| 6  | TOLERANCE (公差)          |      |     |   | M:±20% N:±25% Y:±30% |       |        |
| 7  | PACKAGING (包装方式)        |      |     |   | C - 编带盘装             |       | B - 盒装 |

|             |            |          |
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| APPROVED BY | CHECKED BY | DRAFT BY |
| 黄大燕         | 黄大燕        | 林树英      |



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| PART NO.       | CKNR3010BLD Series | DATE         | 2025/2/7 |

## 2.SERIES SPECIFICATION

### ◆ CKNR3010BLD Series Specification:

| Part Number       | Inductance | Test Freq | DCR(mΩ) |     | Saturation Current (A) |      | Temp. Rise Current (A) |      |
|-------------------|------------|-----------|---------|-----|------------------------|------|------------------------|------|
|                   | (μH)       | (Hz)      | Max     | Typ | Max                    | Typ  | Max                    | Typ  |
| CKNR3010BLD-1R0YC | 1.00       | 100KHz/1V | 84.5    | 64  | 2.00                   | 2.30 | 2.00                   | 2.50 |
| CKNR3010BLD-2R2NC | 2.20       |           | 143     | 110 | 1.40                   | 1.55 | 1.30                   | 1.80 |
| CKNR3010BLD-3R3MC | 3.30       |           | 186     | 148 | 1.20                   | 1.35 | 1.50                   | 1.60 |
| CKNR3010BLD-4R7MC | 4.70       |           | 242     | 170 | 1.00                   | 1.10 | 1.30                   | 1.50 |
| CKNR3010BLD-6R8MC | 6.80       |           | 397     | 328 | 0.65                   | 0.85 | 1.00                   | 1.40 |
| CKNR3010BLD-100MC | 10.0       |           | 520     | 415 | 0.60                   | 0.75 | 0.90                   | 1.30 |
| CKNR3010BLD-220MC | 22.0       |           | 1209    | 933 | 0.40                   | 0.50 | 0.70                   | 1.10 |

### ◆TEST CONDITION

| ITEM | TEST CONDITION | TEST INSTRUMENTS      |
|------|----------------|-----------------------|
| L    | 100KHz/1V      | Microtest 6377        |
| Isat |                | TH1773+Microtest 6377 |
| Irms |                |                       |
| DCR  | 25±5℃          | TH2512B               |

\*The operating temperature is 25℃

\*Isat: For Inductance drop 30% from its value without current

\*Irms: The value of D.C current when the temperature rise is  $\Delta T \leq 40^{\circ}\text{C}$ . ( $T_a=25^{\circ}\text{C}$ )

\*For CKNR3010BLD Series size inductors, absolute maximum voltage: D 25 V.

※此物料仅用于消费电子领域, 若用于车载, 航天, 军事领域引起的一切品质和责任问题, 我司既不承担※

|             |            |          |
|-------------|------------|----------|
| APPROVED BY | CHECKED BY | DRAWN BY |
| 黄大燕         | 黄大燕        | 林树英      |



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| DESCRIPTION.   | SMD POWER INDUCTOR | DRAWN NO.    | 0        |
| PART NO.       | CKNR3010BLD Series | DATE         | 2025/2/7 |

3.MATERIAL LIST & GENERAL SPECIFICATION

| 材料名称            | 型号及规格                        | 制造商          | 环保要求  | 备注          |
|-----------------|------------------------------|--------------|-------|-------------|
| ITEM            | Materials                    | Manufacturer | EN.QU | Note        |
| 磁芯1 (Drum Core) | 镍锌 (Nickel-Zinc)             | DJ           | RoHS  | Primary     |
| 铜线 (Wire)       | Polyester Wire or equivalent | ELEKTRISOLA  | RoHS  |             |
| 胶水 (Glue)       | Phenolic epoxy resin         | DAJOO        | RoHS  |             |
| 锡 (Solder)      | 107H                         | QD           | RoHS  | Primary     |
| 锡 (Solder)      | 107H                         | TF           | RoHS  | Alternative |

| GENERAL SPECIFICATION       |           |
|-----------------------------|-----------|
| Electrical specifications : | at 20~25℃ |
| Operation Temperature :     | -40~+125℃ |
| Storage Temperature :       | -40~+125℃ |

|             |            |          |
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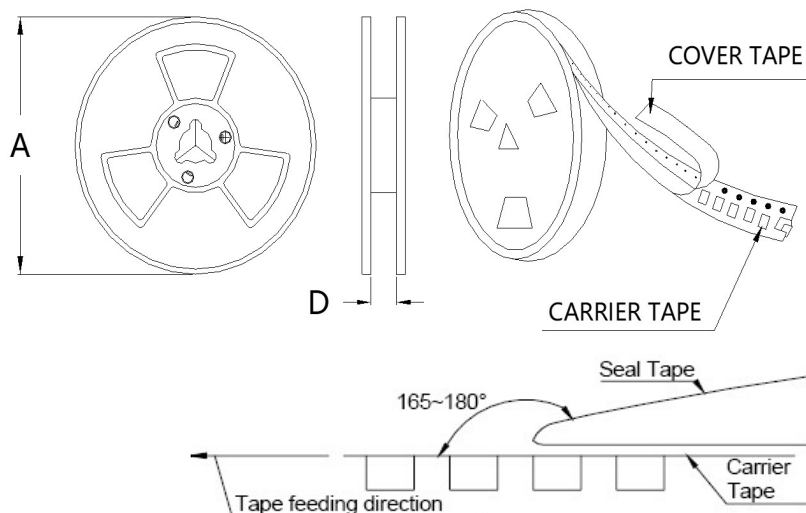
#### 4.PACKAGING(unit: mm)

##### 1.包装类型

##### 2.包装尺寸

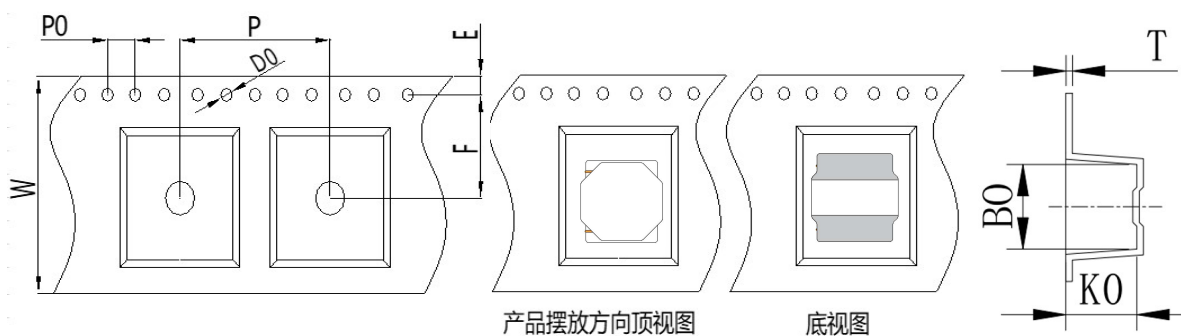
13" 盘

7" 盘



|   | 13" 盘              | 7" 盘               |
|---|--------------------|--------------------|
| A | $\Phi 330 \pm 2.0$ | $\Phi 178 \pm 2.0$ |
| D | 8.4                |                    |

Peel-off strength:10~100gf.  
Peel-off angle:165°-180°  
Peel-off speed:300mm/min.



| Item    | W             | B0            | P             | T              | E              | F             | D0            | P0            | K0             |  |
|---------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|--|
| DIM(mm) | $8.0 \pm 0.3$ | $3.3 \pm 0.1$ | $4.0 \pm 0.1$ | $0.3 \pm 0.05$ | $1.75 \pm 0.1$ | $3.5 \pm 0.1$ | $1.5 \pm 0.1$ | $4.0 \pm 0.1$ | $1.35 \pm 0.1$ |  |

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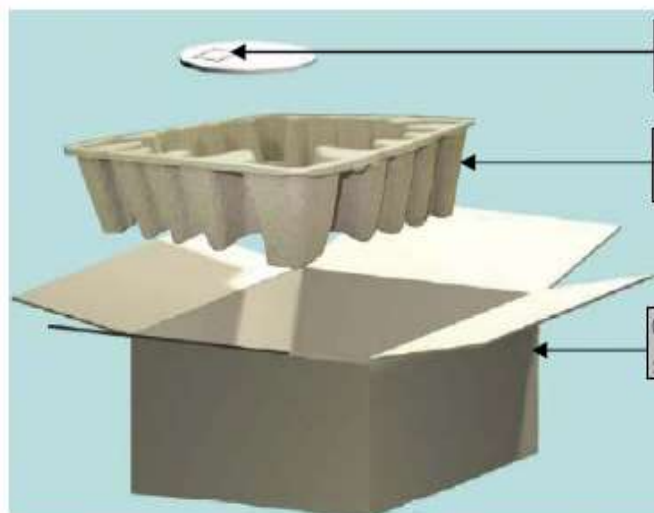


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## 5. CARTON



Innei Packaging (MPQ unit):  
内包装 (最小包装数量单位)

Interm ediate Packaging:  
中包装

Outer packaging:  
外包装

1.1 外箱: 40\*40\*17 cm 一纸托装一箱

1.2 内箱: CAG002(装7寸卷盘TRAY盘)

1.3 外箱材質: A三A

1.4 内箱材質: A=A

1.5 每10卷制品用一只静电袋包装

1.6 每一静电袋内放一只袋干燥剂

1.7 每一卷上面依标签样式的要求贴上标签明细

1.8 出货内外箱贴上该箱内实际内容明细

1.9 出货标签规格如下: 尺寸=长度:39mm 宽度:29mm

(如: 客户有特殊要求时, 则依客户要求实施.)

储存条件及期限:

温度: 20-25℃

湿度: ≤70%

时间: 六个月

### 卷轴包装数量

|    |      |     |
|----|------|-----|
| 每卷 | 2000 | PCS |
|----|------|-----|

### 外箱包装数量

|    |    |     |       |     |
|----|----|-----|-------|-----|
| 每箱 | 40 | 卷,共 | 80000 | PCS |
|----|----|-----|-------|-----|

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## 6. RELIABILITY TEST

| Test Items |                           | Test Conditions                                                                                                                         | Criteria                                                                                              |
|------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 1          | Low temperature storage   | Placed at -40°C for 500 hours, then measured at room ambient temperature after placing 24hours                                          | Inductance shall be within $\pm 10\%$ of the initial value.                                           |
| 2          | High temperature storage  | Placed at +125°C for 500 hours, then measured at room ambient temperature after placing 24 hours                                        | Inductance shall be within $\pm 10\%$ of the initial value.                                           |
| 3          | Thermal shock             | Condition for 1 cycle:<br>-40°C,30min.~+125°C,30min<br>Number of cycles:5                                                               | Inductance shall be within $\pm 10\%$ of the initial value.                                           |
| 4          | Humidity resistance       | Placed at 90 to 95%RH,+50°C for 500 hours, then measured at room ambient temperature after placing 24 hours.                            | Inductance shall be within $\pm 10\%$ of the initial value.<br>Insulation resistance<br>> 100MΩ at DC |
| 5          | Drop                      | Drop specimen three times on concrete floor from a height of 1 meter which mounted on test board                                        | Inductance shall be within $\pm 10\%$ of the initial value.                                           |
| 6          | Vibration                 | Frequency::10~55~10Hz<br>Amplitude:1.5mm or 10G<br>Sweep time: 1 oct/min<br>Test Directions: X,Y,Z<br>Test Time: 2 hours each direction | Inductance shall be within $\pm 10\%$ of the initial value.                                           |
| 7          | Terminal strength         | Add static load 4.9N(500gf) to inductor through hole of test board for 10±2 sec.                                                        | No detachment of terminal pin and no breakage of wire                                                 |
| 8          | Soldering heat resistance | Dip Inductor's terminal in solder bath of following conditions:<br><br>1) 260±5°C, 10±1 sec,<br>2) 350±10°C, 3.5±0.5 sec                | Inductance shall be within $\pm 10\%$ of the initial value.<br>Apperance: No damage                   |

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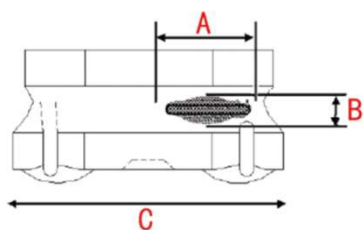
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## 8.Appearance of the standard

### 1.Void appearance tolerance limit



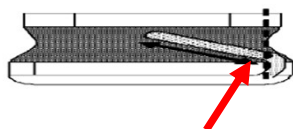
Size of voids occurring to coating resin is specified below.

①Width direction(dimension A): Acceptable when  $A \leq C/2$   
Nonconforming when  $B \geq C/2$

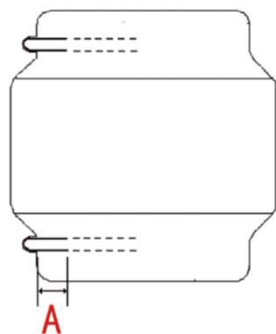
②Length direction(dimension B):Dimension b is not specified

③When total area of voids (including one exposing coil) occurring to each sides is not greater than 50% of coating resin area,that is acceptable.

### 2.External appearance criterion for exposed wire



Exposed end of the winding wire at the secondary side should be 3.0mm and below.



①Acceptable when  $A \leq 0.8\text{mm}$

②Nonconforming when  $A > 0.8\text{mm}$

|             |            |       |
|-------------|------------|-------|
| APPROVED BY | CHECKED BY | DRAFT |
| 黄大燕         | 黄大燕        | 林树英   |

# 承认书



## SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3010BLD-1R0YC

PART NO. CKNR3010BLD Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

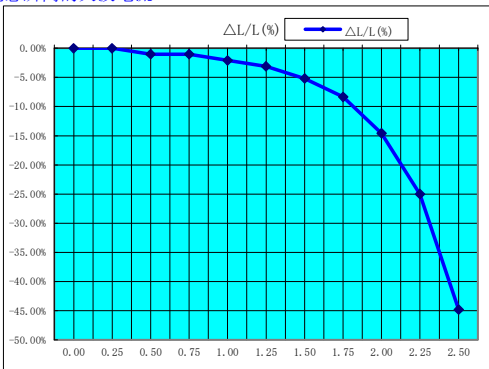
DATE 2025/2/7

### TEST DATA FOR PREPRODUCTION SAMPLE

| TEST RESOLUTION |           |           |           |           |             |  |  | DIMENSION (Unit : mm) |         |         |         |
|-----------------|-----------|-----------|-----------|-----------|-------------|--|--|-----------------------|---------|---------|---------|
| MEAS.<br>ITEM   | L<br>μh   | DCR<br>mΩ | Isat<br>A | ΔL/L      | Irms<br>A   |  |  |                       | 長<br>mm | 寬<br>mm | 高<br>mm |
| SPEC.           | 1.0       | 84.5      | 2.00      | ΔL/L≤-30% | 2.00        |  |  | 上限                    | 3.2     | 3.2     | 1.0     |
|                 | ±<br>30%  | Max.      | Max.      |           | ΔT≤40℃<br>℃ |  |  | 下限                    | 2.8     | 2.8     | MAX     |
| TEST<br>FREQ.   | 100KHz/1V |           | 100KHz/1V |           |             |  |  |                       |         |         |         |
| 1               | 0.96      | 63.5      | 0.76      | -20.83%   | OK          |  |  |                       | 3.07    | 3.02    | 0.94    |
| 2               | 1.00      | 63.0      | 0.80      | -20.00%   | OK          |  |  |                       | 2.98    | 3.03    | 0.96    |
| 3               | 0.98      | 64.4      | 0.75      | -23.47%   | OK          |  |  |                       | 2.99    | 3.01    | 0.94    |
| 4               | 0.99      | 62.7      | 0.76      | -23.23%   | OK          |  |  |                       | 3.00    | 3.05    | 0.97    |
| 5               | 1.01      | 64.5      | 0.80      | -20.79%   | OK          |  |  |                       | 3.02    | 3.08    | 0.95    |
| 6               | 0.97      | 65.1      | 0.78      | -19.59%   | OK          |  |  |                       | 3.02    | 3.09    | 0.98    |
| 7               | 0.96      | 62.0      | 0.77      | -19.79%   | OK          |  |  |                       | 3.01    | 3.02    | 0.96    |
| 8               | 0.95      | 62.0      | 0.74      | -22.11%   | OK          |  |  |                       | 2.99    | 3.01    | 0.94    |
| 9               | 0.95      | 63.0      | 0.75      | -21.05%   | OK          |  |  |                       | 2.98    | 3.03    | 0.96    |
| 10              | 1.00      | 65.1      | 0.79      | -21.00%   | OK          |  |  |                       | 2.99    | 2.99    | 0.95    |
| AVG.            | 0.977     | 63.53     | 0.77      | -21.19%   |             |  |  |                       | 3.005   | 3.033   | 0.955   |
| R               | 0.06      | 3.1       | 0.06      | 3.88%     |             |  |  |                       | 0.09    | 0.1     | 0.04    |

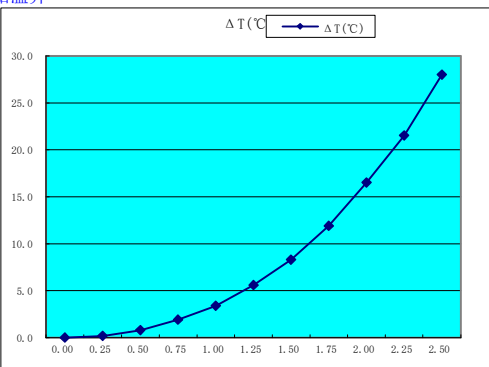
Isat(飽和電流):電感瞬間の突波電流

| TME(秒) | Lsat(A) | L(UH) | ΔL/L(%) |
|--------|---------|-------|---------|
| 1      | 0.00    | 0.96  | 0.00%   |
| 1      | 0.25    | 0.96  | 0.00%   |
| 1      | 0.50    | 0.95  | -1.04%  |
| 1      | 0.75    | 0.95  | -1.04%  |
| 1      | 1.00    | 0.94  | -2.08%  |
| 1      | 1.25    | 0.93  | -3.12%  |
| 1      | 1.50    | 0.91  | -5.21%  |
| 1      | 1.75    | 0.88  | -8.33%  |
| 1      | 2.00    | 0.82  | -14.58% |
| 1      | 2.25    | 0.72  | -25.00% |
| 1      | 2.50    | 0.53  | -44.79% |



單點溫昇

| TIME(S) | Irms(A) | L(uH) | ΔL/L(%) | Temp(℃) | ΔT(℃) |
|---------|---------|-------|---------|---------|-------|
| 30      | 0.00    | 0.94  | 0.00%   | 23.0    | 0.0   |
| 30      | 0.25    | 0.93  | -1.06%  | 23.2    | 0.2   |
| 30      | 0.50    | 0.93  | -1.06%  | 23.8    | 0.8   |
| 30      | 0.75    | 0.93  | -1.06%  | 24.9    | 1.9   |
| 30      | 1.00    | 0.92  | -2.13%  | 26.4    | 3.4   |
| 30      | 1.25    | 0.90  | -4.26%  | 28.6    | 5.6   |
| 30      | 1.50    | 0.88  | -6.38%  | 31.3    | 8.3   |
| 30      | 1.75    | 0.82  | -12.77% | 34.9    | 11.9  |
| 30      | 2.00    | 0.76  | -19.15% | 39.5    | 16.5  |
| 30      | 2.25    | 0.65  | -30.85% | 44.5    | 21.5  |
| 30      | 2.50    | 0.48  | -48.94% | 51.0    | 28.0  |



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## SPECIFICATION FOR APPROVAL

### CUSTOMER

### CUSTOMER'S P/N

JINKAI P/N: CKNR3010BLD-2R2NC

PART NO. CKNR3010BLD Series

### DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

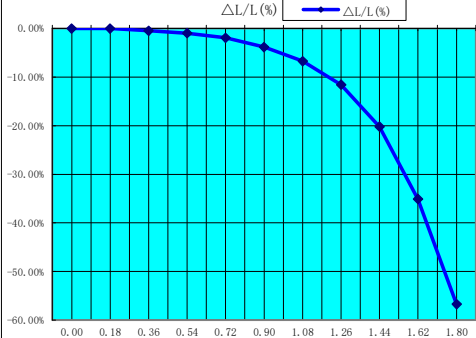
DATE 2025/2/7

### TEST DATA FOR PREPRODUCTION SAMPLE

| TEST RESOLUTION |                 |             |              |           |                     |  |  | DIMENSION (Unit : mm) |            |            |            |
|-----------------|-----------------|-------------|--------------|-----------|---------------------|--|--|-----------------------|------------|------------|------------|
| MEAS.<br>ITEM   | L<br>μh         | DCR<br>mΩ   | Isat<br>A    | ΔL/L      | Irms<br>A           |  |  |                       | 長<br>mm    | 寬<br>mm    | 高<br>mm    |
| SPEC.           | 2.2<br>±<br>25% | 143<br>Max. | 1.40<br>Max. | ΔL/L≤-30% | 1.30<br>ΔT≤40℃<br>℃ |  |  | 上限<br>下限              | 3.2<br>2.8 | 3.2<br>2.8 | 1.0<br>MAX |
| TEST<br>FREQ.   | 100KHz/1V       |             | 100KHz/1V    |           |                     |  |  |                       |            |            |            |
| 1               | 2.13            | 110         | 1.80         | -15.49%   | OK                  |  |  |                       | 3.02       | 3.00       | 0.98       |
| 2               | 2.15            | 107         | 1.78         | -17.21%   | OK                  |  |  |                       | 3.04       | 3.02       | 0.96       |
| 3               | 2.08            | 109         | 1.78         | -14.42%   | OK                  |  |  |                       | 3.02       | 3.01       | 0.93       |
| 4               | 2.16            | 108         | 1.79         | -17.13%   | OK                  |  |  |                       | 3.00       | 2.99       | 0.94       |
| 5               | 2.15            | 110         | 1.78         | -17.21%   | OK                  |  |  |                       | 3.02       | 3.01       | 0.97       |
| 6               | 2.09            | 109         | 1.75         | -16.27%   | OK                  |  |  |                       | 3.00       | 2.99       | 0.93       |
| 7               | 2.15            | 111         | 1.72         | -20.00%   | OK                  |  |  |                       | 3.00       | 2.98       | 0.95       |
| 8               | 2.14            | 106         | 1.70         | -20.56%   | OK                  |  |  |                       | 2.98       | 3.00       | 0.93       |
| 9               | 2.09            | 108         | 1.75         | -16.27%   | OK                  |  |  |                       | 2.99       | 2.98       | 0.94       |
| 10              | 2.11            | 107         | 1.76         | -16.59%   | OK                  |  |  |                       | 2.99       | 2.97       | 0.95       |
| AVG.            | 2.125           | 108.5       | 1.761        | -17.11%   |                     |  |  |                       | 3.006      | 2.995      | 0.948      |
| R               | 0.08            | 5           | 0.1          | 6.14%     |                     |  |  |                       | 0.06       | 0.05       | 0.05       |

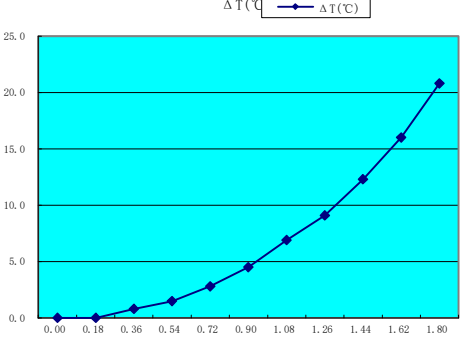
Isat(飽和電流):電感瞬間的突波電流

| TME(秒) | Lsat(A) | L(UH) | ΔL/L(%) |
|--------|---------|-------|---------|
| 1      | 0.00    | 2.08  | 0.00%   |
| 1      | 0.18    | 2.08  | 0.00%   |
| 1      | 0.36    | 2.07  | -0.48%  |
| 1      | 0.54    | 2.06  | -0.96%  |
| 1      | 0.72    | 2.04  | -1.92%  |
| 1      | 0.90    | 2.00  | -3.85%  |
| 1      | 1.08    | 1.94  | -6.73%  |
| 1      | 1.26    | 1.84  | -11.54% |
| 1      | 1.44    | 1.66  | -20.19% |
| 1      | 1.62    | 1.35  | -35.10% |
| 1      | 1.80    | 0.90  | -56.73% |



單點溫昇

| TME(S) | Irms(A) | L(uH) | ΔL/L(%) | Temp(℃) | ΔT(℃) |
|--------|---------|-------|---------|---------|-------|
| 30     | 0.00    | 2.14  | 0.00%   | 24.7    | 0.0   |
| 30     | 0.18    | 2.14  | 0.00%   | 24.7    | 0.0   |
| 30     | 0.36    | 2.14  | 0.00%   | 25.5    | 0.8   |
| 30     | 0.54    | 2.13  | -0.47%  | 26.2    | 1.5   |
| 30     | 0.72    | 2.11  | -1.40%  | 27.5    | 2.8   |
| 30     | 0.90    | 2.07  | -3.27%  | 29.2    | 4.5   |
| 30     | 1.08    | 2.01  | -6.07%  | 31.6    | 6.9   |
| 30     | 1.26    | 1.90  | -11.21% | 33.8    | 9.1   |
| 30     | 1.44    | 1.72  | -19.63% | 37.0    | 12.3  |
| 30     | 1.62    | 1.43  | -33.18% | 40.7    | 16.0  |
| 30     | 1.80    | 1.00  | -53.27% | 45.5    | 20.8  |



# 承认书



## SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3010BLD-3R3MC

PART NO. CKNR3010BLD Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

DATE 2025/2/7

| TEST DATA FOR PREPRODUCTION SAMPLE |                 |             |              |           |                     |  |  |                       |          |            |            |            |
|------------------------------------|-----------------|-------------|--------------|-----------|---------------------|--|--|-----------------------|----------|------------|------------|------------|
| TEST RESOLUTION                    |                 |             |              |           |                     |  |  | DIMENSION (Unit : mm) |          |            |            |            |
| MEAS. ITEM                         | L<br>μh         | DCR<br>mΩ   | Isat<br>A    | ΔL/L      | Irms<br>A           |  |  |                       | 長<br>mm  | 寬<br>mm    | 高<br>mm    |            |
| SPEC.                              | 3.3<br>±<br>20% | 186<br>Max. | 1.20<br>Max. | ΔL/L≤-30% | 1.10<br>ΔT≤40℃<br>℃ |  |  |                       | 上限<br>下限 | 3.2<br>2.8 | 3.2<br>2.8 | 1.0<br>MAX |
| TEST FREQ.                         | 100KHz/1V       |             | 100KHz/1V    |           |                     |  |  |                       |          |            |            |            |
| 1                                  | 3.16            | 143         | 2.60         | -17.72%   | OK                  |  |  |                       | 3.02     | 3.03       | 0.93       |            |
| 2                                  | 3.23            | 142         | 2.59         | -19.81%   | OK                  |  |  |                       | 3.02     | 3.01       | 0.93       |            |
| 3                                  | 3.11            | 152         | 2.52         | -18.97%   | OK                  |  |  |                       | 3.04     | 3.03       | 0.95       |            |
| 4                                  | 3.20            | 140         | 2.56         | -20.00%   | OK                  |  |  |                       | 3.01     | 3.01       | 0.94       |            |
| 5                                  | 3.18            | 156         | 2.58         | -18.87%   | OK                  |  |  |                       | 3.01     | 3.04       | 0.93       |            |
| 6                                  | 3.11            | 151         | 2.55         | -18.01%   | OK                  |  |  |                       | 3.02     | 3.00       | 0.95       |            |
| 7                                  | 3.20            | 140         | 2.60         | -18.75%   | OK                  |  |  |                       | 3.00     | 3.02       | 0.93       |            |
| 8                                  | 3.19            | 147         | 2.61         | -18.18%   | OK                  |  |  |                       | 3.00     | 3.01       | 0.94       |            |
| 9                                  | 3.21            | 145         | 2.63         | -18.07%   | OK                  |  |  |                       | 2.99     | 3.00       | 0.95       |            |
| 10                                 | 3.23            | 152         | 2.65         | -17.96%   | OK                  |  |  |                       | 3.02     | 2.99       | 0.96       |            |
| AVG.                               | 3.182           | 146.8       | 2.589        | -18.63%   |                     |  |  |                       | 3.013    | 3.014      | 0.941      |            |
| R                                  | 0.12            | 16          | 0.13         | 2.28%     |                     |  |  |                       | 0.05     | 0.05       | 0.03       |            |

| Isat(飽和電流):電感瞬間の突波電流 |         |       |         |
|----------------------|---------|-------|---------|
| TME(秒)               | Lsat(A) | L(UH) | ΔL/L(%) |
| 1                    | 0.00    | 3.04  | 0.00%   |
| 1                    | 0.15    | 3.03  | -0.33%  |
| 1                    | 0.29    | 3.03  | -0.33%  |
| 1                    | 0.44    | 3.02  | -0.66%  |
| 1                    | 0.59    | 3.00  | -1.32%  |
| 1                    | 0.74    | 2.96  | -2.63%  |
| 1                    | 0.88    | 2.88  | -5.26%  |
| 1                    | 1.03    | 2.76  | -9.21%  |
| 1                    | 1.18    | 2.54  | -16.45% |
| 1                    | 1.32    | 2.16  | -28.95% |
| 1                    | 1.47    | 1.51  | -50.33% |

| 單點溫昇    |         |       |         |         |       |
|---------|---------|-------|---------|---------|-------|
| TIME(S) | Irms(A) | L(uH) | ΔL/L(%) | Temp(℃) | ΔT(℃) |
| 30      | 0.00    | 2.96  | 0.00%   | 22.8    | 0.0   |
| 30      | 0.15    | 2.95  | -0.34%  | 23.0    | 0.2   |
| 30      | 0.29    | 2.94  | -0.68%  | 23.5    | 0.7   |
| 30      | 0.44    | 2.94  | -0.68%  | 24.0    | 1.2   |
| 30      | 0.59    | 2.91  | -1.69%  | 25.1    | 2.3   |
| 30      | 0.74    | 2.87  | -3.04%  | 26.5    | 3.7   |
| 30      | 0.88    | 2.80  | -5.41%  | 28.4    | 5.6   |
| 30      | 1.03    | 2.78  | -6.08%  | 30.6    | 7.8   |
| 30      | 1.18    | 2.47  | -16.55% | 33.6    | 10.8  |
| 30      | 1.32    | 2.16  | -27.03% | 37.0    | 14.2  |
| 30      | 1.47    | 1.69  | -42.91% | 41.9    | 19.1  |

# 承认书



## SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3010BLD-4R7MC

PART NO. CKNR3010BLD Series

DRAWN NO.

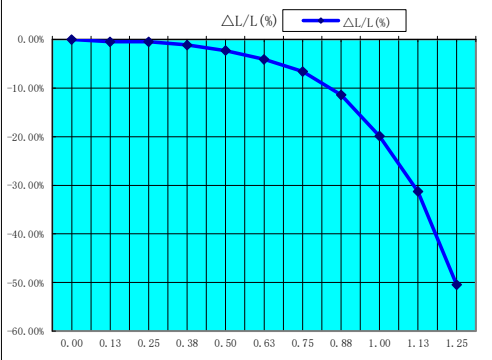
TEST R.H. 80~85%

TEST TEMP. 20~25℃

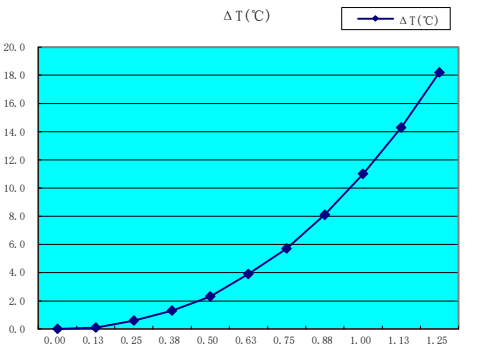
DATE 2025/2/7

| TEST DATA FOR PREPRODUCTION SAMPLE |                 |             |              |           |                     |  |  |                       |          |            |            |            |
|------------------------------------|-----------------|-------------|--------------|-----------|---------------------|--|--|-----------------------|----------|------------|------------|------------|
| TEST RESOLUTION                    |                 |             |              |           |                     |  |  | DIMENSION (Unit : mm) |          |            |            |            |
| MEAS. ITEM                         | L<br>μh         | DCR<br>mΩ   | Isat<br>A    | ΔL/L      | Irms<br>A           |  |  |                       | 長<br>mm  | 寬<br>mm    | 高<br>mm    |            |
| SPEC.                              | 4.7<br>±<br>20% | 242<br>Max. | 0.75<br>Max. | ΔL/L≤-30% | 0.77<br>ΔT≤40℃<br>℃ |  |  |                       | 上限<br>下限 | 3.2<br>2.8 | 3.2<br>2.8 | 1.0<br>MAX |
| TEST FREQ.                         | 100KHz/1V       |             | 100KHz/1V    |           |                     |  |  |                       |          |            |            |            |
| 1                                  | 4.36            | 169         | 3.70         | -15.14%   | OK                  |  |  |                       | 3.01     | 3.03       | 0.94       |            |
| 2                                  | 4.30            | 167         | 3.65         | -15.12%   | OK                  |  |  |                       | 3.02     | 3.01       | 0.93       |            |
| 3                                  | 4.36            | 170         | 3.65         | -16.28%   | OK                  |  |  |                       | 3.02     | 3.03       | 0.93       |            |
| 4                                  | 4.26            | 168         | 3.68         | -13.62%   | OK                  |  |  |                       | 3.03     | 3.00       | 0.94       |            |
| 5                                  | 4.29            | 170         | 3.69         | -13.99%   | OK                  |  |  |                       | 3.03     | 3.04       | 0.96       |            |
| 6                                  | 4.14            | 168         | 3.60         | -13.04%   | OK                  |  |  |                       | 3.02     | 3.06       | 0.95       |            |
| 7                                  | 4.18            | 177         | 3.59         | -14.11%   | OK                  |  |  |                       | 3.00     | 3.00       | 0.94       |            |
| 8                                  | 4.16            | 170         | 3.52         | -15.38%   | OK                  |  |  |                       | 3.01     | 2.99       | 0.97       |            |
| 9                                  | 4.13            | 171         | 3.56         | -13.80%   | OK                  |  |  |                       | 3.02     | 3.00       | 0.95       |            |
| 10                                 | 4.21            | 169         | 3.59         | -14.73%   | OK                  |  |  |                       | 3.00     | 3.02       | 0.94       |            |
| AVG.                               | 4.239           | 169.9       | 3.623        | -14.52%   |                     |  |  |                       | 3.016    | 3.018      | 0.945      |            |
| R                                  | 0.23            | 10          | 0.18         | 3.24%     |                     |  |  |                       | 0.03     | 0.07       | 0.04       |            |

| Isat(飽和電流):電感瞬間的突波電流 |         |       |         |  |
|----------------------|---------|-------|---------|--|
| TME(秒)               | Lsat(A) | L(UH) | ΔL/L(%) |  |
| 1                    | 0.00    | 4.38  | 0.00%   |  |
| 1                    | 0.13    | 4.36  | -0.46%  |  |
| 1                    | 0.25    | 4.36  | -0.46%  |  |
| 1                    | 0.38    | 4.33  | -1.14%  |  |
| 1                    | 0.50    | 4.28  | -2.28%  |  |
| 1                    | 0.63    | 4.20  | -4.11%  |  |
| 1                    | 0.75    | 4.09  | -6.62%  |  |
| 1                    | 0.88    | 3.88  | -11.42% |  |
| 1                    | 1.00    | 3.51  | -19.86% |  |
| 1                    | 1.13    | 3.01  | -31.28% |  |
| 1                    | 1.25    | 2.17  | -50.46% |  |



| 單點溫昇   |         |       |         |         |       |  |
|--------|---------|-------|---------|---------|-------|--|
| TME(S) | Irms(A) | L(uH) | ΔL/L(%) | Temp(℃) | ΔT(℃) |  |
| 30     | 0.00    | 4.32  | 0.00%   | 24.5    | 0.0   |  |
| 30     | 0.13    | 4.29  | -0.69%  | 24.6    | 0.1   |  |
| 30     | 0.25    | 4.22  | -2.31%  | 25.1    | 0.6   |  |
| 30     | 0.38    | 4.25  | -1.62%  | 25.8    | 1.3   |  |
| 30     | 0.50    | 4.17  | -3.47%  | 26.8    | 2.3   |  |
| 30     | 0.63    | 4.07  | -5.79%  | 28.4    | 3.9   |  |
| 30     | 0.75    | 3.92  | -9.26%  | 30.2    | 5.7   |  |
| 30     | 0.88    | 3.66  | -15.28% | 32.6    | 8.1   |  |
| 30     | 1.00    | 3.27  | -24.31% | 35.5    | 11.0  |  |
| 30     | 1.13    | 2.74  | -36.57% | 38.8    | 14.3  |  |
| 30     | 1.25    | 2.09  | -51.62% | 42.7    | 18.2  |  |



# 承 認 书



## SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3010BLD-6R8MC

PART NO. CKNR3010BLD Series

DRAWN NO.

TEST R.H. 80~85%

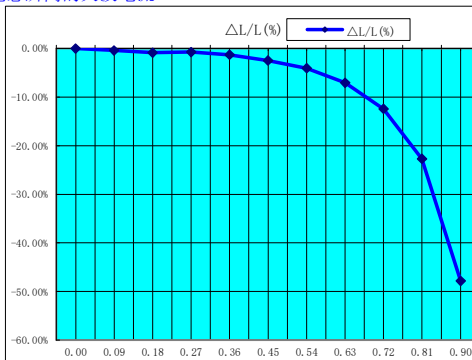
TEST TEMP. 20~25℃

DATE 2025/2/7

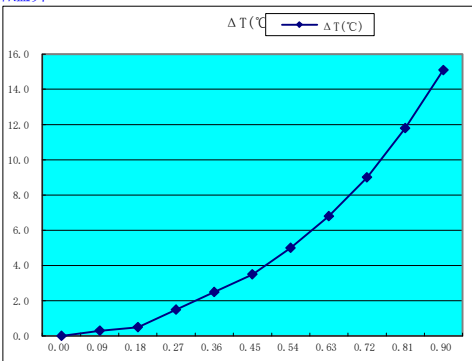
### TEST DATA FOR PREPRODUCTION SAMPLE

| TEST RESOLUTION |                 |             |              |           |                     |  |  | DIMENSION (Unit : mm) |          |            |                          |
|-----------------|-----------------|-------------|--------------|-----------|---------------------|--|--|-----------------------|----------|------------|--------------------------|
| MEAS.<br>ITEM   | L<br>μh         | DCR<br>mΩ   | Isat<br>A    | △L/L      | Irms<br>A           |  |  |                       | 長<br>mm  | 寬<br>mm    | 高<br>mm                  |
| SPEC.           | 6.8<br>±<br>20% | 397<br>Max. | 0.65<br>Max. | △L/L≤-30% | 0.66<br>△T≤40℃<br>℃ |  |  |                       | 上限<br>下限 | 3.2<br>2.8 | 3.2<br>2.8<br>1.0<br>MAX |
| TEST<br>FREQ.   | 100KHz/1V       |             | 100KHz/1V    |           |                     |  |  |                       |          |            |                          |
| 1               | 7.02            | 316         | 6.46         | -8.0%     | OK                  |  |  |                       | 3.01     | 3.03       | 0.94                     |
| 2               | 6.98            | 334         | 6.48         | -7.2%     | OK                  |  |  |                       | 3.02     | 3.01       | 0.93                     |
| 3               | 6.90            | 332         | 6.36         | -7.8%     | OK                  |  |  |                       | 3.02     | 3.03       | 0.93                     |
| 4               | 6.92            | 322         | 6.37         | -7.9%     | OK                  |  |  |                       | 3.03     | 3.00       | 0.94                     |
| 5               | 7.20            | 319         | 6.63         | -7.9%     | OK                  |  |  |                       | 3.03     | 3.04       | 0.96                     |
| 6               | 6.92            | 328         | 6.39         | -7.7%     | OK                  |  |  |                       | 3.02     | 3.06       | 0.95                     |
| 7               | 6.90            | 331         | 6.32         | -8.4%     | OK                  |  |  |                       | 3.00     | 3.00       | 0.94                     |
| 8               | 7.19            | 330         | 6.58         | -8.5%     | OK                  |  |  |                       | 3.01     | 2.99       | 0.97                     |
| 9               | 6.97            | 320         | 6.42         | -7.9%     | OK                  |  |  |                       | 3.02     | 3.00       | 0.95                     |
| 10              | 6.85            | 329         | 6.32         | -7.7%     | OK                  |  |  |                       | 3.00     | 3.02       | 0.94                     |
| AVG.            | 6.985           | 326.1       | 6.433        | -7.90%    |                     |  |  |                       | 3.016    | 3.018      | 0.945                    |
| R               | 0.35            | 18          | 0.31         | 1.32%     |                     |  |  |                       | 0.03     | 0.07       | 0.04                     |

| Isat(飽和電流):電感瞬間的突波電流 |         |       |         |  |  |
|----------------------|---------|-------|---------|--|--|
| TME(秒)               | Lsat(A) | L(UH) | ΔL/L(%) |  |  |
| 1                    | 0.00    | 6.92  | 0.00%   |  |  |
| 1                    | 0.09    | 6.89  | -0.43%  |  |  |
| 1                    | 0.18    | 6.86  | -0.87%  |  |  |
| 1                    | 0.27    | 6.87  | -0.72%  |  |  |
| 1                    | 0.36    | 6.83  | -1.30%  |  |  |
| 1                    | 0.45    | 6.75  | -2.46%  |  |  |
| 1                    | 0.54    | 6.64  | -4.05%  |  |  |
| 1                    | 0.63    | 6.43  | -7.08%  |  |  |
| 1                    | 0.72    | 6.06  | -12.43% |  |  |
| 1                    | 0.81    | 5.35  | -22.69% |  |  |
| 1                    | 0.90    | 3.61  | -47.83% |  |  |



| 單點溫昇   |         |       |         |         |       |  |  |
|--------|---------|-------|---------|---------|-------|--|--|
| TME(S) | Irms(A) | L(uH) | ΔL/L(%) | Temp(℃) | ΔT(℃) |  |  |
| 30     | 0.00    | 6.85  | 0.00%   | 26.5    | 0.0   |  |  |
| 30     | 0.09    | 6.85  | 0.00%   | 26.8    | 0.3   |  |  |
| 30     | 0.18    | 6.83  | -0.29%  | 27.0    | 0.5   |  |  |
| 30     | 0.27    | 6.81  | -0.58%  | 28.0    | 1.5   |  |  |
| 30     | 0.36    | 6.77  | -1.17%  | 29.0    | 2.5   |  |  |
| 30     | 0.45    | 6.70  | -2.19%  | 30.0    | 3.5   |  |  |
| 30     | 0.54    | 6.60  | -3.65%  | 31.5    | 5.0   |  |  |
| 30     | 0.63    | 6.41  | -6.42%  | 33.3    | 6.8   |  |  |
| 30     | 0.72    | 6.08  | -11.24% | 35.5    | 9.0   |  |  |
| 30     | 0.81    | 5.43  | -20.73% | 38.3    | 11.8  |  |  |
| 30     | 0.90    | 3.96  | -42.19% | 41.6    | 15.1  |  |  |



# 承认书



## SPECIFICATION FOR APPROVAL

### CUSTOMER

### CUSTOMER'S P/N

JINKAI P/N: CKNR3010BLD-100MC

PART NO. CKNR3010BLD Series

### DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

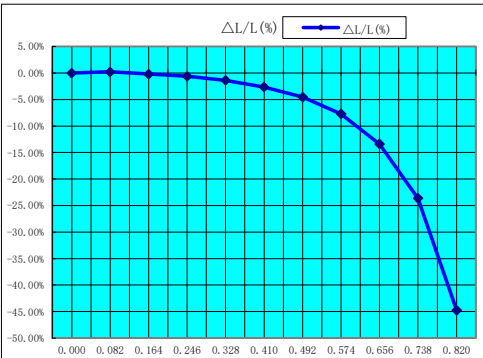
DATE 2025/2/7

### TEST DATA FOR PREPRODUCTION SAMPLE

| TEST RESOLUTION |                  |             |              |           |                     |  | DIMENSION (Unit : mm) |          |            |                   |
|-----------------|------------------|-------------|--------------|-----------|---------------------|--|-----------------------|----------|------------|-------------------|
| MEAS. ITEM      | L<br>μh          | DCR<br>mΩ   | Isat<br>A    | ΔL/L      | Irms<br>A           |  |                       | 長<br>mm  | 寬<br>mm    | 高<br>mm           |
| SPEC.           | 10.0<br>±<br>20% | 520<br>Max. | 0.55<br>Max. | ΔL/L≤-30% | 0.58<br>ΔT≤40℃<br>℃ |  |                       | 上限<br>下限 | 3.2<br>2.8 | 3.2<br>2.8<br>MAX |
| TEST FREQ.      | 100KHz/1V        |             | 100KHz/1V    |           |                     |  |                       |          |            |                   |
| 1               | 9.45             | 420         | 8.00         | -15.34%   | OK                  |  |                       | 3.01     | 3.04       | 0.94              |
| 2               | 9.51             | 412         | 8.01         | -15.77%   | OK                  |  |                       | 3.01     | 3.04       | 0.96              |
| 3               | 9.33             | 405         | 7.99         | -14.36%   | OK                  |  |                       | 3.04     | 3.01       | 0.98              |
| 4               | 9.42             | 418         | 7.95         | -15.61%   | OK                  |  |                       | 3.00     | 3.02       | 0.95              |
| 5               | 9.56             | 406         | 7.90         | -17.36%   | OK                  |  |                       | 3.03     | 3.02       | 0.95              |
| 6               | 9.46             | 416         | 7.89         | -16.60%   | OK                  |  |                       | 3.03     | 3.01       | 0.96              |
| 7               | 9.50             | 414         | 7.90         | -16.84%   | OK                  |  |                       | 3.03     | 3.00       | 0.95              |
| 8               | 9.44             | 427         | 7.92         | -16.10%   | OK                  |  |                       | 3.01     | 3.30       | 0.97              |
| 9               | 9.57             | 426         | 7.85         | -17.97%   | OK                  |  |                       | 3.08     | 3.01       | 0.94              |
| 10              | 9.65             | 412         | 7.80         | -19.17%   | OK                  |  |                       | 3.00     | 3.02       | 0.95              |
| AVG.            | 9.489            | 415.6       | 7.921        | -16.51%   |                     |  |                       | 3.024    | 3.047      | 0.955             |
| R               | 0.32             | 22          | 0.21         | 4.81%     |                     |  |                       | 0.08     | 0.3        | 0.04              |

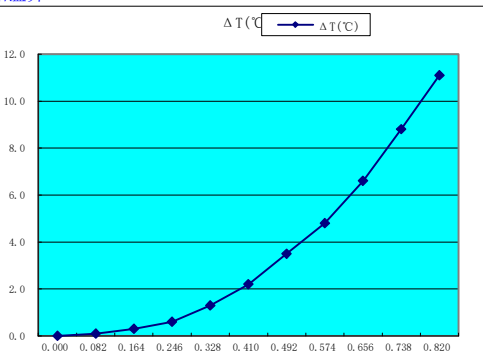
### Isat(飽和電流):電感瞬間的突波電流

| TME(秒) | Lsat(A) | L(UH) | ΔL/L(%) |
|--------|---------|-------|---------|
| 1      | 0.000   | 9.48  | 0.00%   |
| 1      | 0.082   | 9.50  | 0.21%   |
| 1      | 0.164   | 9.46  | -0.21%  |
| 1      | 0.246   | 9.42  | -0.63%  |
| 1      | 0.328   | 9.35  | -1.37%  |
| 1      | 0.410   | 9.23  | -2.64%  |
| 1      | 0.492   | 9.05  | -4.54%  |
| 1      | 0.574   | 8.75  | -7.70%  |
| 1      | 0.656   | 8.21  | -13.40% |
| 1      | 0.738   | 7.24  | -23.63% |
| 1      | 0.820   | 5.24  | -44.73% |



### 單點溫昇

| TME(S) | Irms(A) | L(uH) | ΔL/L(%) | Temp(℃) | ΔT(℃) |
|--------|---------|-------|---------|---------|-------|
| 30     | 0.000   | 9.34  | 0.00%   | 27.7    | 0.0   |
| 30     | 0.082   | 9.35  | 0.11%   | 27.8    | 0.1   |
| 30     | 0.164   | 9.30  | -0.43%  | 28.0    | 0.3   |
| 30     | 0.246   | 9.26  | -0.86%  | 28.3    | 0.6   |
| 30     | 0.328   | 9.19  | -1.61%  | 29.0    | 1.3   |
| 30     | 0.410   | 9.06  | -3.00%  | 29.9    | 2.2   |
| 30     | 0.492   | 8.86  | -5.14%  | 31.2    | 3.5   |
| 30     | 0.574   | 8.52  | -8.78%  | 32.5    | 4.8   |
| 30     | 0.656   | 7.91  | -15.31% | 34.3    | 6.6   |
| 30     | 0.738   | 6.76  | -27.62% | 36.5    | 8.8   |
| 30     | 0.820   | 4.39  | -53.00% | 38.8    | 11.1  |



# 承认书



## SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3010BLD-220MC

PART NO. CKNR3010BLD Series

DRAWN NO.

TEST R.H. 80~85%

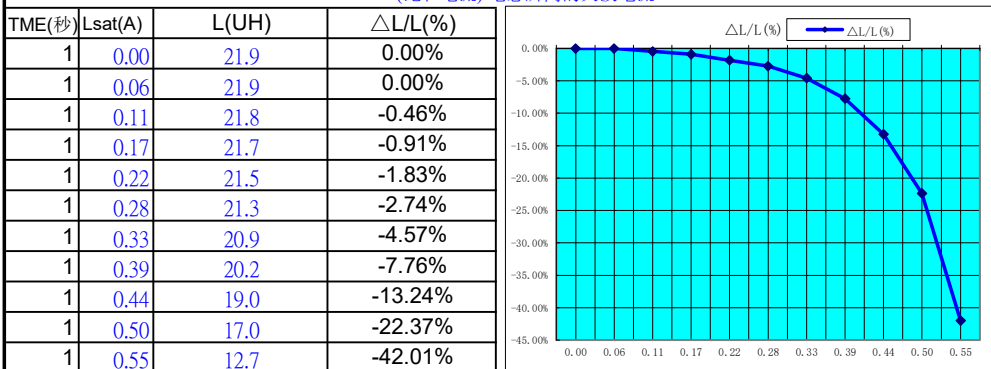
TEST TEMP. 20~25℃

DATE 2025/2/7

### TEST DATA FOR PREPRODUCTION SAMPLE

| TEST RESOLUTION |                  |              |              |           |                     |  |  | DIMENSION (Unit : mm) |            |                   |
|-----------------|------------------|--------------|--------------|-----------|---------------------|--|--|-----------------------|------------|-------------------|
| MEAS. ITEM      | L<br>μh          | DCR<br>mΩ    | Isat<br>A    | ΔL/L      | Irms<br>A           |  |  | 長<br>mm               | 寬<br>mm    | 高<br>mm           |
| SPEC.           | 22.0<br>±<br>20% | 1209<br>Max. | 0.36<br>Max. | ΔL/L≤-30% | 0.38<br>ΔT≤40℃<br>℃ |  |  | 上限<br>下限              | 3.2<br>2.8 | 3.2<br>2.8<br>MAX |
| TEST FREQ.      | 100KHz/1V        |              | 100KHz/1V    |           |                     |  |  |                       |            |                   |
| 1               | 21.8             | 939          | 18.0         | -17.43%   | OK                  |  |  | 3.00                  | 3.02       | 0.94              |
| 2               | 21.9             | 927          | 18.2         | -16.89%   | OK                  |  |  | 3.01                  | 3.03       | 0.96              |
| 3               | 21.6             | 956          | 18.1         | -16.20%   | OK                  |  |  | 3.01                  | 3.02       | 0.95              |
| 4               | 22.1             | 923          | 18.2         | -17.65%   | OK                  |  |  | 3.00                  | 3.01       | 0.96              |
| 5               | 22.1             | 922          | 18.2         | -17.65%   | OK                  |  |  | 3.02                  | 3.03       | 0.95              |
| 6               | 21.9             | 927          | 18.4         | -15.98%   | OK                  |  |  | 2.99                  | 3.00       | 0.93              |
| 7               | 22.2             | 930          | 18.2         | -18.02%   | OK                  |  |  | 2.98                  | 3.01       | 0.96              |
| 8               | 21.5             | 939          | 18.0         | -16.28%   | OK                  |  |  | 2.99                  | 2.99       | 0.94              |
| 9               | 21.6             | 946          | 18.2         | -15.74%   | OK                  |  |  | 3.03                  | 2.98       | 0.93              |
| 10              | 22.1             | 928          | 18.1         | -18.10%   | OK                  |  |  | 2.98                  | 3.00       | 0.97              |
| AVG.            | 21.880           | 933.7        | 18.16        | -16.99%   |                     |  |  | 3.001                 | 3.009      | 0.949             |
| R               | 0.7              | 34           | 0.4          | 2.36%     |                     |  |  | 0.05                  | 0.05       | 0.04              |

Isat(飽和電流):電感瞬間の突波電流



單點溫昇

