

# 承 认 书

## SPECIFICATION FOR APPROVAL

|                      |                  |              |   |
|----------------------|------------------|--------------|---|
| CUSTOMER             |                  |              |   |
| CUSTOMER'S P/N       |                  |              |   |
| DATE                 | 07/Jun/2025      | REVISION NO. | A |
| PART NO.             | CKWLF0603 Series |              |   |
| DRAWN NO.            |                  |              |   |
| DESCRIPTION.         | RF INDUCTOR      |              |   |
| Customer's Signature |                  |              |   |
|                      |                  |              |   |
| Approved by          | Checked by       | Drawn by     |   |
| 黄大燕                  | 黄大燕              | 梁智坤          |   |
| 07/Jun/2025          | 07/Jun/2025      | 07/Jun/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,

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



TEL: (020) 34567411

FAX: (020) 39946195

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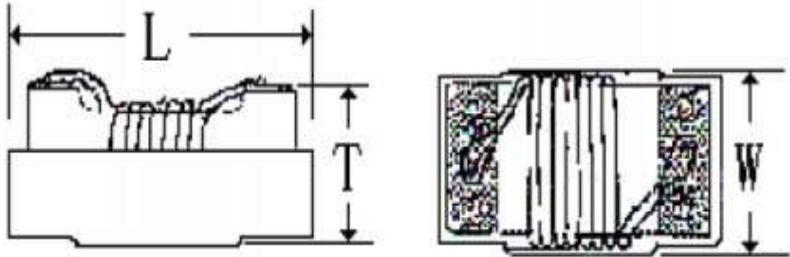
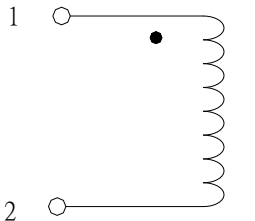
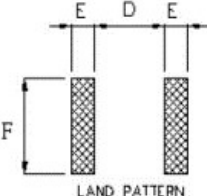


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| PART NO.       | CKWLF0603 Series | DATE         | 2025/6/7 |

1.SHAPE & DIMENSION

|                                                                                                   |      |     |      |                                                                                                             |      |
|---------------------------------------------------------------------------------------------------|------|-----|------|-------------------------------------------------------------------------------------------------------------|------|
| <p>UNIT: mm</p>  |      |     |      | <p>SCHEMATICS</p>        |      |
|                                                                                                   |      |     |      | <p>Recommended Pad</p>  |      |
| L                                                                                                 | W    | T   | E    | F                                                                                                           | D    |
| 1.8                                                                                               | 1.25 | 1.1 | 0.64 | 1.02                                                                                                        | 0.64 |
| Max                                                                                               | MAX  | MAX | Typ  | Typ                                                                                                         | Typ  |

PART NUMBERING SYSTEM

|                           |     |      |   |                 |   |   |
|---------------------------|-----|------|---|-----------------|---|---|
| CK                        | WLF | 0603 | - | 100             | K | C |
| 1                         | 2   | 3    |   | 4               | 5 | 6 |
| 1 CHK PRODUCTION (今凯制造)   |     |      |   |                 |   |   |
| 2 PRODUCT CATEGORY (产品种类) |     |      |   |                 |   |   |
| 3 DIMENSIONS (尺寸规格)       |     |      |   |                 |   |   |
| 4 INDUCTANCE (电感量)        |     |      |   |                 |   |   |
| 5 TOLERANCE (公差)          |     |      |   | J:±5% K:±10%    |   |   |
| 6 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        | 梁智坤      |



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| PART NO.       | CKWLF0603 Series | DATE         | 2025/6/7 |

## 2.SERIES SPECIFICATION

### ◆CKWLF0603 Specification:

| Part Number     | Inductance | Test Freq | DCR( $\Omega$ ) | IDC mA | SRF MHz |
|-----------------|------------|-----------|-----------------|--------|---------|
|                 | ( $\mu$ H) | MHz       | Max             | Max    | Typ     |
| CKWLF0603-1R0◇C | 1.0        | 7.9       | 0.41            | 700    | 250     |
| CKWLF0603-1R5◇C | 1.5        | 7.9       | 0.52            | 600    | 160     |
| CKWLF0603-1R8◇C | 1.8        | 7.9       | 0.56            | 580    | 121     |
| CKWLF0603-2R2◇C | 2.2        | 7.9       | 0.72            | 580    | 103     |
| CKWLF0603-2R7◇C | 2.7        | 7.9       | 0.81            | 500    | 72      |
| CKWLF0603-3R3◇C | 3.3        | 7.9       | 0.91            | 500    | 66      |
| CKWLF0603-3R9◇C | 3.9        | 7.9       | 1.08            | 460    | 61      |
| CKWLF0603-4R7◇C | 4.7        | 7.9       | 0.97            | 420    | 51      |
| CKWLF0603-5R6◇C | 5.6        | 7.9       | 1.43            | 380    | 47      |
| CKWLF0603-6R8◇C | 6.8        | 7.9       | 1.95            | 340    | 42      |
| CKWLF0603-8R2◇C | 8.2        | 7.9       | 2.18            | 300    | 40      |
| CKWLF0603-100◇C | 10         | 2.5       | 2.40            | 280    | 36      |
| CKWLF0603-120◇C | 12         | 2.5       | 2.96            | 260    | 32      |
| CKWLF0603-150◇C | 15         | 2.5       | 3.38            | 220    | 29      |
| CKWLF0603-180◇C | 18         | 2.5       | 3.77            | 220    | 28      |
| CKWLF0603-220◇C | 22         | 2.5       | 4.69            | 200    | 24      |
| CKWLF0603-270◇C | 27         | 2.5       | 6.76            | 140    | 20      |
| CKWLF0603-330◇C | 33         | 2.5       | 8.58            | 120    | 15      |
| CKWLF0603-470◇C | 47         | 2.5       | 12.00           | 100    | 5       |

Note: “◇” K:  $\pm 10\%$ 、J:  $\pm 5\%$

### ◆TEST CONDITION

| ITEM | TEST CONDITION | TEST INSTRUMENTS |
|------|----------------|------------------|
| L    | 13.56MHz/1V    | HP4287A          |
| Isat |                | VR116+VR7210     |
| DCR  |                | 502BC            |
| SRF  |                | E5071C ENA       |

※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※

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3.MATERIAL LIST & GENERAL SPECIFICATION

| 材料名称           | 型号及规格     | 制造商          | 备注   |
|----------------|-----------|--------------|------|
| ITEM           | Materials | Manufacturer | Note |
| 磁芯 (Drum Core) | 镍锌        | TZD          | NA   |
| 铜线 (Wire)      | 聚酯亚胺漆包线   | ELEKTRISOLA  | NA   |

| 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

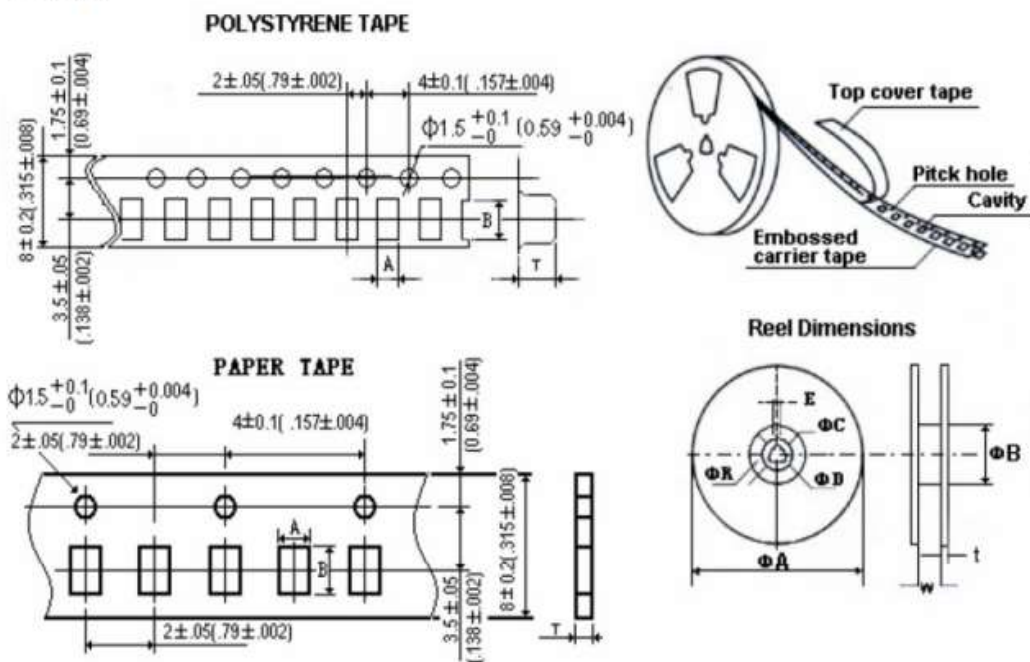
#### 2.包装尺寸

☐ 13" 盘

☐ 7" 盘

#### ◆ Packaging Style

##### 1、Tape



|    |      | A    | B    | T    |
|----|------|------|------|------|
| 纸带 | 0402 | 0.74 | 1.23 | 0.60 |
|    | 0603 | 1.15 | 1.83 | 0.95 |
|    | 0805 | 1.85 | 2.40 | 1.45 |
| 胶带 | 1008 | 2.73 | 2.90 | 2.34 |
|    | 1210 | 2.96 | 3.60 | 2.40 |
|    | 1812 | 3.22 | 4.82 | 3.15 |

unit: (mm)

| unit | ΦA  | ΦB | ΦC | ΦD | E | W  | t | R |
|------|-----|----|----|----|---|----|---|---|
| mm   | 178 | 60 | 13 | 21 | 2 | 10 | 2 | 1 |
|      | 330 | 75 | 13 | 23 | 2 | 12 | 2 | 1 |

#### 2、Packaging Quantity

| Dimension     | 1005<br>(0402) | 1608<br>(0603) | 2012<br>(0805) | 2520<br>(1008) | 3225<br>(1210) | 4532<br>(1812) |
|---------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Quantity(Pcs) | 10000          | 4000           | 2000           | 2000           | 2000           | 2000           |

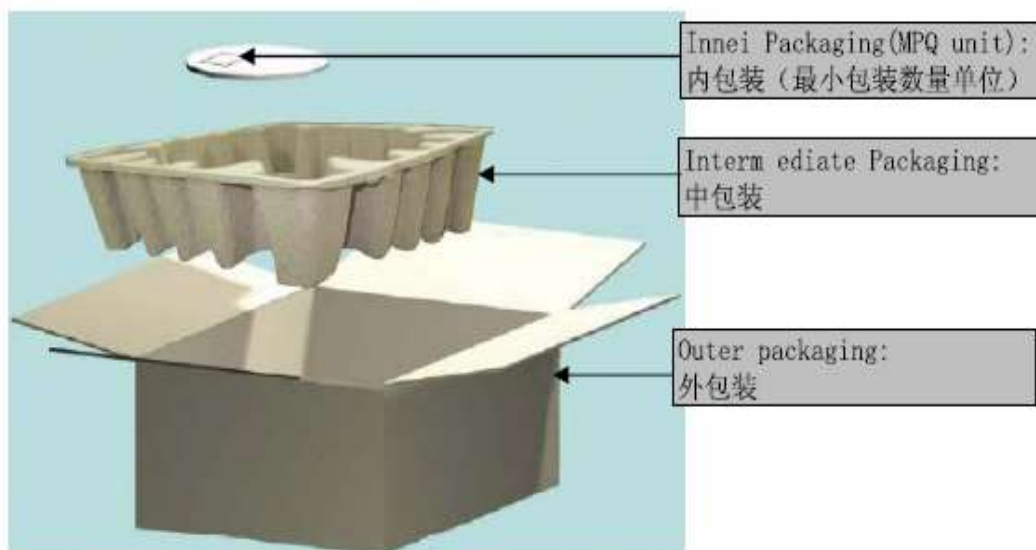
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## 5. CARTON



- 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 外箱材质: A三A
- 1.4 内箱材质: 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 | 4000 | PCS |
|----|------|-----|

### 外箱包装数量

|    |    |     |        |     |
|----|----|-----|--------|-----|
| 每箱 | 40 | 卷,共 | 160000 | 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><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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## 7. SOLDERING CONDITIONS

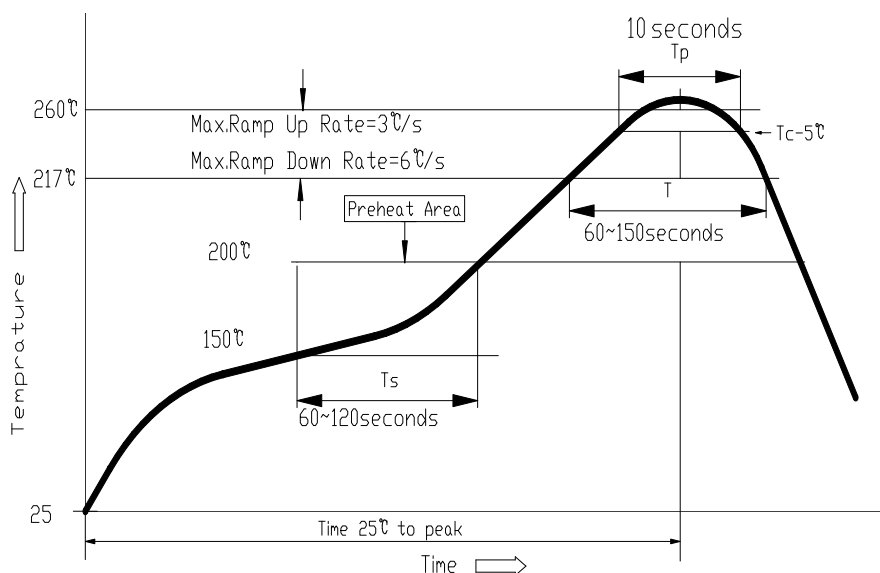
Applicable soldering process to the products is refl.

### 9.1 Soldering Materials

(1) Solder:Sn-3.0Ag-0.5Cu

(2) Flux:Use rosin-based flux,but not strongly acidic flux (with xhlorine exceeding 0.2wt%).Do not use water-soluble flux.

### 9.2 Reflow Soldering Profile



### 9.3 Soldering Iron

Reworking with electric soldering iron must preheating at 150°C for 1 minute is required,and do not directly touch the core with the tip of the soldering iron.The reworking soldering conditions are as follows.

- ①Temperature of soldering iron tip:350°C;
- ② Soldering iron power output:≤30W;
- ③ Diameter of soldering iron end:≤1.0mm;
- ④Soldering time:<3 s



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