

承 认 书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	07/Jun/2025	REVISION NO.	A
PART NO.	CKWLF0603 Series 无色点		
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

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ECN HISTORY LIST

REV	DATE	DESCRIPTION	CHECK	APPROVED
A	6月7日	新规作成	梁智坤	黄大燕

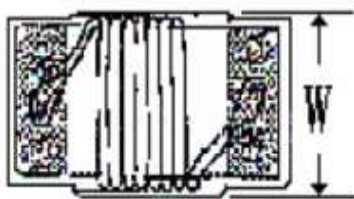
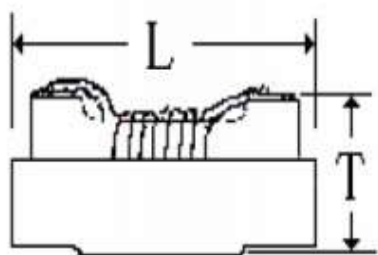


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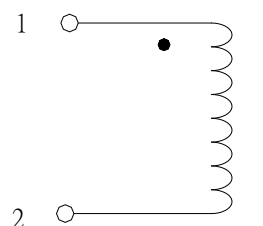
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1.SHAPE & DIMENSION

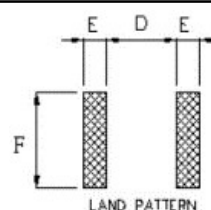
UNIT: mm



SCHEMATICS



Recommended Pad



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 N C
1 2 3 4 5 6 7

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 NO MARKING COLOUR

7 PACKAGING (包装方式) C - 编带盘装 B - 盒装

APPROVED BY	CHECKED BY	DRAFT BY
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2.SERIES SPECIFICATION

◆CKWLF0603 Specification:

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

Note: “ $\diamond$ ” 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

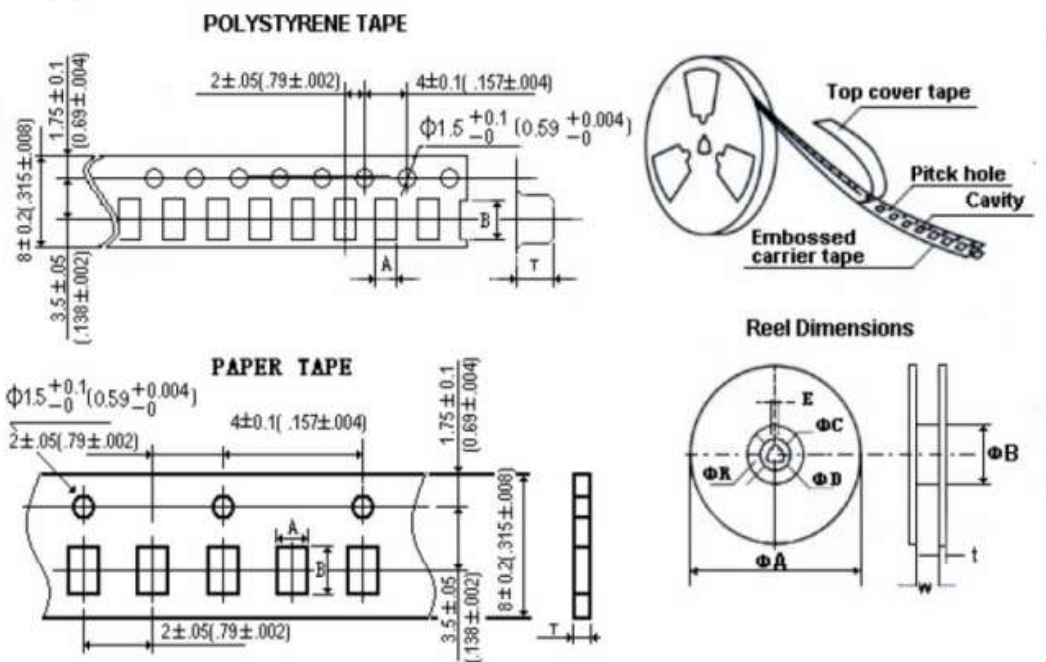
◆ Packaging Style

1、Tape

2.包装尺寸

☐ 13" 盘

☐ 7" 盘



		A	B	T
纸带	0402	0.74	1.23	0.60
胶带	0603	1.15	1.83	0.95
	0805	1.85	2.40	1.45
	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 (0402)	1608 (0603)	2012 (0805)	2520 (1008)	3225 (1210)	4532 (1812)
Quantity(Pcs)	10000	4000	2000	2000	2000	2000

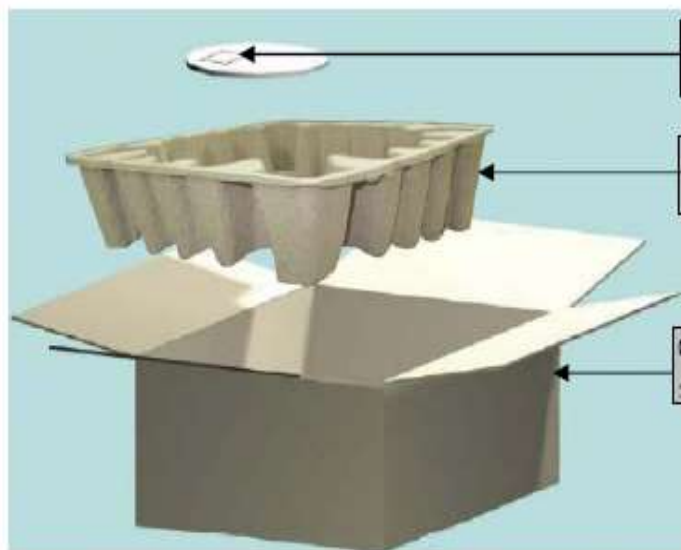
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5. CARTON



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
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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: -40°C,30min.~+125°C,30min 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. Insulation resistance > 100M Ω 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 Amplitude:1.5mm or 10G Sweep time: 1 oct/min Test Directions: X,Y,Z 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 $\pm$ 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: 1) 260 $\pm$ 5°C, 10 $\pm$ 1 sec, 2) 350 $\pm$ 10°C, 3.5 $\pm$ 0.5 sec	Inductance shall be within $\pm 10\%$ of the initial value. Apperance: No damage

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7. SOLDERING CONDITIONS

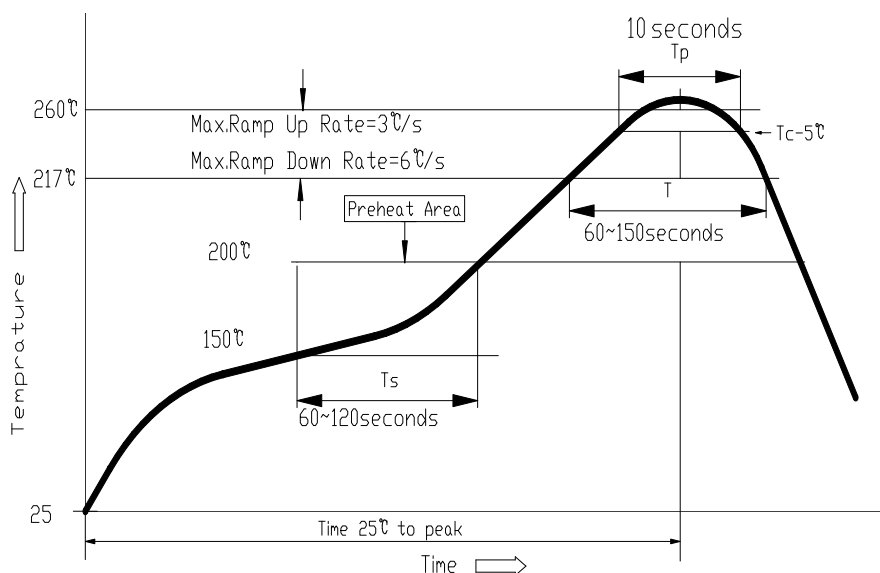
Applicable soldering process to the products is refl.

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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