承　　认　　书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	20/Jan/2024	REVISION NO.	A
PART NO.	CKWLC0603 Series		
DRAWN NO.			
DESCRIPTION.	RF INDUCTOR		
Customer's Signature			

Approved by	Checked by	Drawn by
黄大燕	黄大燕	梁智坤
20/Jan/2024	20/Jan/2024	20/Jan/2024

广 州 市 今 凯 电 子 有 限 公 司

GUANG ZHOU CHK ELECTRONIC Co., Ltd

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GUANG ZHOU CHK ELECTRONIC Co., Ltd

ECN HISTORY LIST

REV	DATE	DESCRIPTION	CHECK	APPROVED
A	1月20日	新规作成	梁智坤	黄大燕

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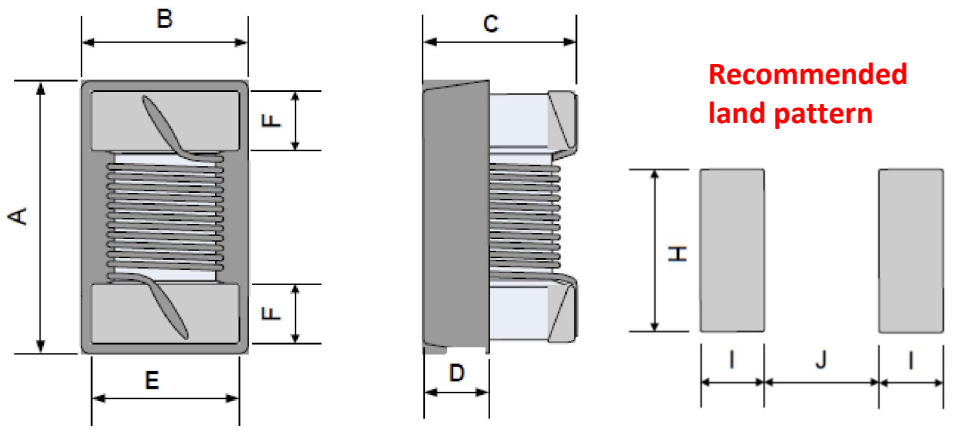
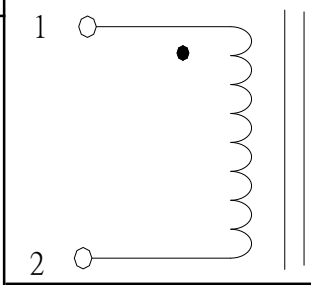
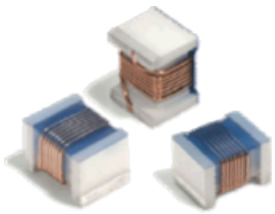
1.SHAPE & DIMENSION

UNIT: mm



SCHEMATICS





A	B	C	D	E	F	H	I	J
1.68	1	0.85	0.32	0.76	0.33	1.02	0.60	0.60
±0.1	±0.1	±0.1	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05

PART NUMBERING SYSTEM

CK	WLC	0603	-	4N7	J	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） B:±1% G:±2% J:±5% K:±10%

6 PACKAGING （包装方式） C - 编带盘装 B - 盒装

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2.SERIES SPECIFICATION

◆CKWLC0603 Specification:

Part Number	Inductance	Teat Freq	DCR(Ω)	Rated Current (mA)	SRF MHz	Q Factor
	nH	MHz	Max	Max	Min	Min
CKWLC0603C1N6◊T	1.6	250	0.035	1150	>6000	18
CKWLC0603C1N7◊T	1.7	250	0.043	1000	>6000	16
CKWLC0603C1N8◊T	1.8	250	0.043	1000	>6000	18
CKWLC0603C2N2◊T	2.2	250	0.150	700	>6000	13
CKWLC0603C2N7◊T	2.7	250	0.043	1000	>6000	25
CKWLC0603C3N3◊T	3.3	250	0.059	850	>6000	25
CKWLC0603C3N6◊T	3.6	250	0.059	850	>6000	25
CKWLC0603C3N9◊T	3.9	250	0.059	850	>6000	25
CKWLC0603C4N3◊T	4.3	250	0.059	850	>6000	25
CKWLC0603C4N7◊T	4.7	250	0.065	800	>6000	25
CKWLC0603C5N1◊T	5.1	250	0.130	600	>6000	21
CKWLC0603C6N2◊T	6.2	250	0.095	700	>6000	29
CKWLC0603C6N8◊T	6.8	250	0.095	700	>6000	29
CKWLC0603C7N5◊T	7.5	250	0.095	700	>6000	33
CKWLC0603C8N2◊T	8.2	250	0.095	700	>6000	31
CKWLC0603C8N7◊T	8.7	250	0.095	700	>6000	31
CKWLC0603C9N1◊T	9.1	250	0.120	620	6000	30
CKWLC0603C9N5◊T	9.5	250	0.160	540	6000	26
CKWLC0603C10N◊T	10.0	250	0.130	600	6000	30
CKWLC0603C11N◊T	11.0	250	0.130	600	6000	35
CKWLC0603C12N◊T	12.0	250	0.130	600	6000	35
CKWLC0603C13N◊T	13.0	250	0.130	600	6000	35
CKWLC0603C15N◊T	15.0	250	0.150	550	6000	37
CKWLC0603C16N◊T	16.0	250	0.150	550	5500	37
CKWLC0603C18N◊T	18.0	250	0.150	550	5500	37
CKWLC0603C20N◊T	20.0	250	0.150	550	4900	37
CKWLC0603C22N◊T	22.0	250	0.190	490	4600	38
CKWLC0603C23N◊T	23.0	250	0.190	490	3800	40
CKWLC0603C24N◊T	24.0	250	0.190	490	3800	40

Part Number	Inductance	Teat Freq	DCR(Ω)	Rated Current (mA)	SRF MHz	Q Factor
	nH	MHz	Max	Max	Min	Min
CKWLC0603C25N◊ST	25.0	250	0.190	490	3700	40
CKWLC0603C27N◊ST	27.0	250	0.190	490	3700	38
CKWLC0603C30N◊ST	30.0	250	0.210	470	3300	38
CKWLC0603C33N◊ST	33	250	0.210	470	3200	40
CKWLC0603C36N◊ST	36	250	0.220	460	2900	40
CKWLC0603C39N◊ST	39	250	0.220	460	2800	40
CKWLC0603C43N◊ST	43	250	0.270	400	2700	40
CKWLC0603C47N◊ST	47	250	0.270	400	2600	36
CKWLC0603C51N◊ST	51	250	0.300	390	2400	35
CKWLC0603C56N◊ST	56	250	0.350	360	2400	38
CKWLC0603C62N◊ST	62	250	0.380	350	2300	36
CKWLC0603C68N◊ST	68	250	0.380	350	2200	36
CKWLC0603C72N◊ST	72	150	0.430	320	2100	34
CKWLC0603C82N◊ST	82	150	0.500	300	2000	34
CKWLC0603C91N◊ST	91	150	0.520	300	1900	34
CKWLC0603CR10◊ST	100	150	0.660	260	1800	31
CKWLC0603CR11◊ST	110	150	0.730	250	1700	32
CKWLC0603CR12◊ST	120	150	0.750	240	1600	32
CKWLC0603CR15◊ST	150	150	1.120	200	1400	32
CKWLC0603CR16◊ST	160	150	1.250	190	1400	32
CKWLC0603CR18◊ST	180	150	1.380	180	1300	25
CKWLC0603CR20◊ST	200	100	1.900	150	1250	25
CKWLC0603CR22◊ST	220	100	2.100	140	1200	25
CKWLC0603CR24◊ST	240	100	2.750	120	1100	25
CKWLC0603CR25◊ST	250	100	2.800	120	1100	25
CKWLC0603CR27◊ST	270	100	3.000	120	960	26
CKWLC0603CR33◊ST	330	100	4.200	100	800	26
CKWLC0603CR39◊ST	390	100	4.500	100	800	27
CKWLC0603CR42◊ST	420	100	5.400	90	800	27
CKWLC0603CR47◊ST	470	100	5.700	90	700	27
CKWLC0603CR56◊ST	560	100	8.100	70	650	27

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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)	陶瓷	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℃

◆TEST CONDITION

ITEM	TEST CONDITION	TEST INSTRUMENTS
L	250MHz	HP4286A
Isat		VR116+VR7210
DCR		502BC
SRF		E5071C ENA

*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 △T≦40℃.(Ta=25℃)

※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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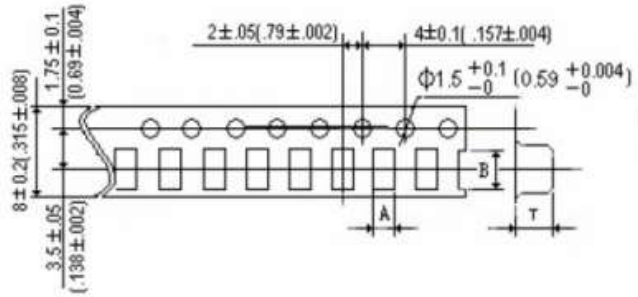
4.PACKAGING(unit: mm)

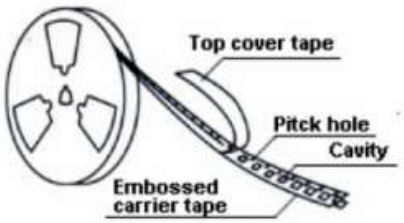
1.包装类型 **2.包装尺寸** □ 13″ 盘 ■ 7″ 盘

◆ **Packaging Style**

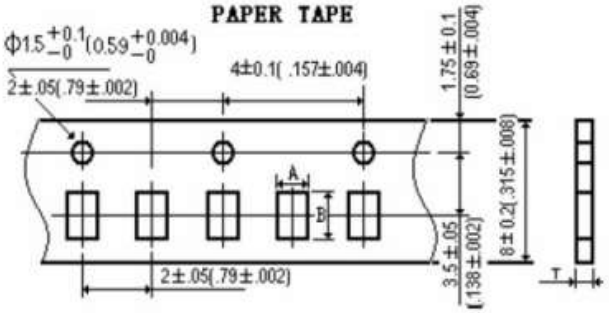
1、Tape

POLYSTYRENE TAPE

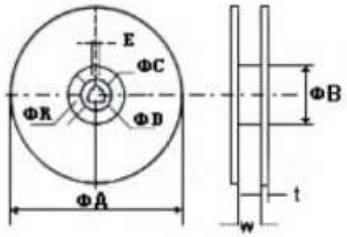




PAPER TAPE



Reel Dimensions



		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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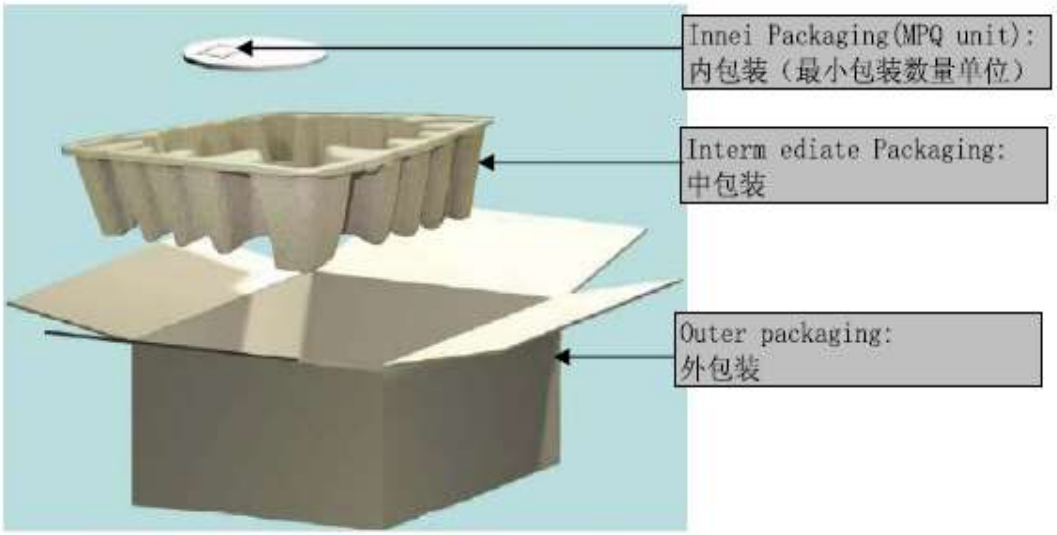
5. CARTON



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.)

卷轴包装数量		
每卷	10000	PCS

外箱包装数量				
每箱	40	卷,共	400000	PCS

储存条件及期限：
温度：20-25℃
湿度：≦70%
时间：六个月

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6. RELIABILITY TEST

	Test Items	Test Conditions	Criteria
1	Low temperature storage	Placed at -40℃ for 500 hours, then measured at room ambient temperature after placing 24hours	Inductance shall be within ± 10% of the initial value.
2	High temperature storage	Placed at +125℃ for 500 hours, then measured at room ambient temperature after placing 24 hours	Inductance shall be within ± 10% of the initial value.
3	Thermal shock	Condition for 1 cycle: -40℃,30min.~+125℃,30min Number of cycles:5	Inductance shall be within ± 10% of the initial value.
4	Humidity resistance	Placed at 90 to 95%RH,+50℃ for 500 hours, then measured at room ambient temperature after placing 24 hours.	Inductance shall be within ± 10% of the initial value. Insulation resistance > 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 ± 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 ± 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: 1) 260±5℃, 10±1 sec, 2) 350±10℃, 3.5±0.5 sec	Inductance shall be within ± 10% of the initial value. Apperance: No damage

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7. SOLDERING CONDITIONS

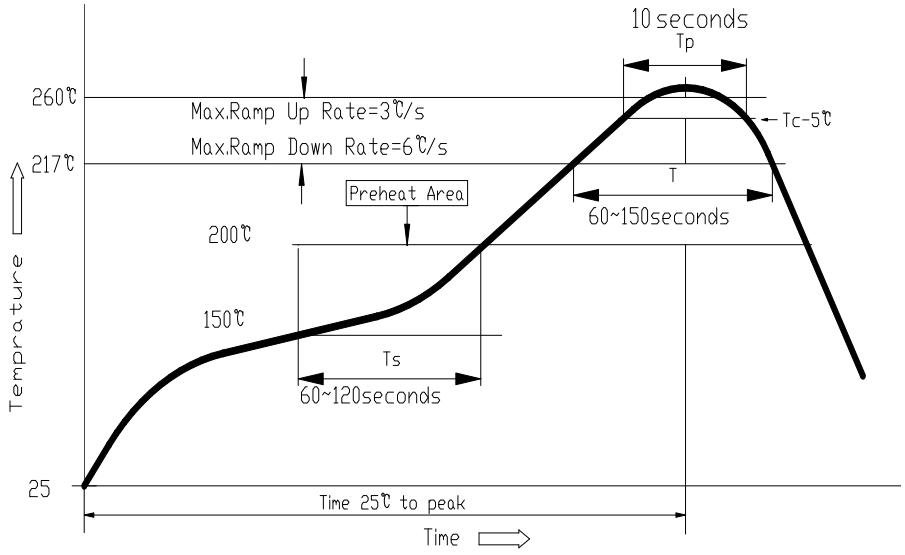
Applicable soldering process to the products is refl.

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

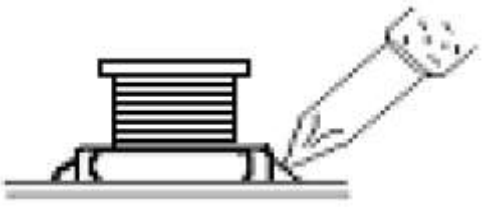
Reworking with electric solding iron must preheating at 150℃ for 1 minute is required,and do not directly touch the core with the tip of the soldering iron.The reworking soldering conditions are as follows.

①Temperature of soldering iron tip:350℃；

② Soldering iron power output:≤30W；

③ Diameter of soldering iron end:≤1.0mm；

④Soldering time:＜3 s



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