承　　认　　书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	30/May/2025	REVISION NO.	A
PART NO.	CKWLF402008 Series		
DRAWN NO.			
DESCRIPTION.	RFID INDUCTOR		
Customer's Signature			

Approved by	Checked by	Drawn by
黄大燕	黄大燕	梁智坤
30/May/2025	30/May/2025	30/May/2025

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ECN HISTORY LIST

REV	DATE	DESCRIPTION	CHECK	APPROVED
A	2025/5/30	新规作成	梁智坤	黄大燕

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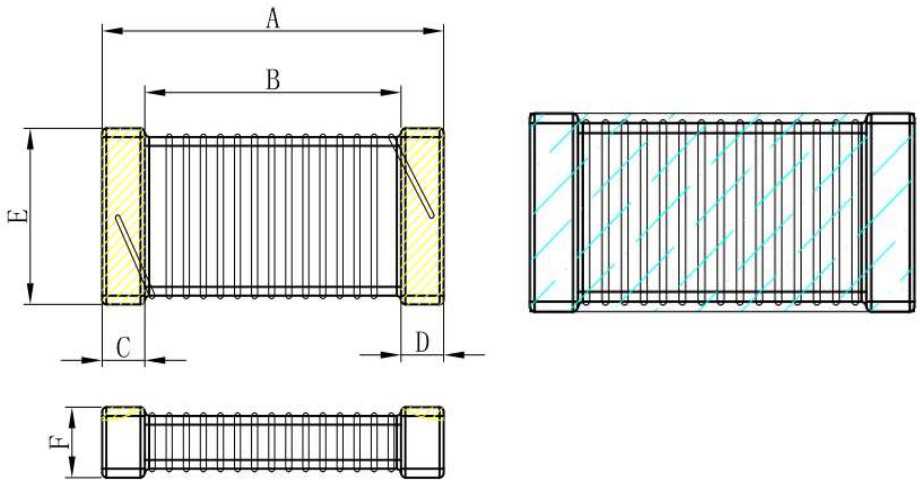
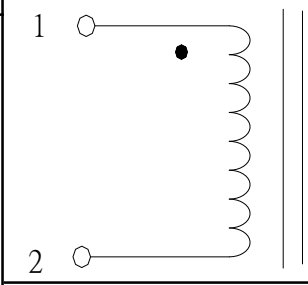
1.SHAPE & DIMENSION

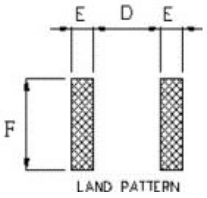
UNIT: mm



SCHEMATICS



Recommended Pad



A	B	C	D	E	F
4	3	0.5	0.5	2	0.85
±0.13	±0.1	±0.08	±0.08	±0.1	+ 0.1/-0.15

PART NUMBERING SYSTEM

CK	WLF	402008	-	1R0	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） J：±5% K:±10% M:±20%

6 PACKAGING （包装方式） C - 编带盘装 B - 盒装

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2.SERIES SPECIFICATION

◆CKWLF402008 Series Specification:

Part Number	Inductance	Test Freq	Q	DCR mΩ	RS	SRF MHz	ISAT	IRMS
	(μH)	(Hz)	MIN	MAX	MIN	MIN	MAX	MAX
CKWLF402008-R40JC	0.4±5%	13.56MHz/1V	20	314	5	25	1.65	0.7
CKWLF402008-R60JC	0.6±5%		20	388	5	25	1.6	0.7
CKWLF402008-1R0JC	1±5%		30	538	5	25	1.5	0.6

◆TEST CONDITION

ITEM	TEST CONDITION	TEST INSTRUMENTS
L	13.56MHz/1V	Agilent 4287A
Isat		TH1773
DCR		TH2512B
SRF		Agilent 4287A

*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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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	DJ	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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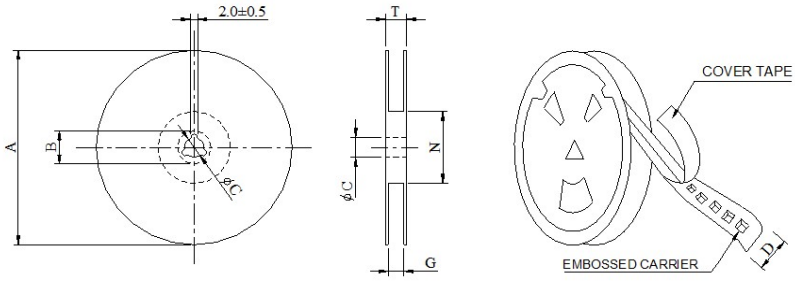
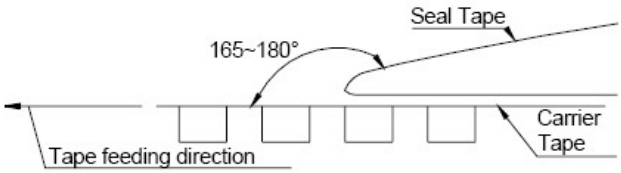
4.PACKAGING(unit: mm)

1.包装类型 **2.包装尺寸** ■ 13″ 盘

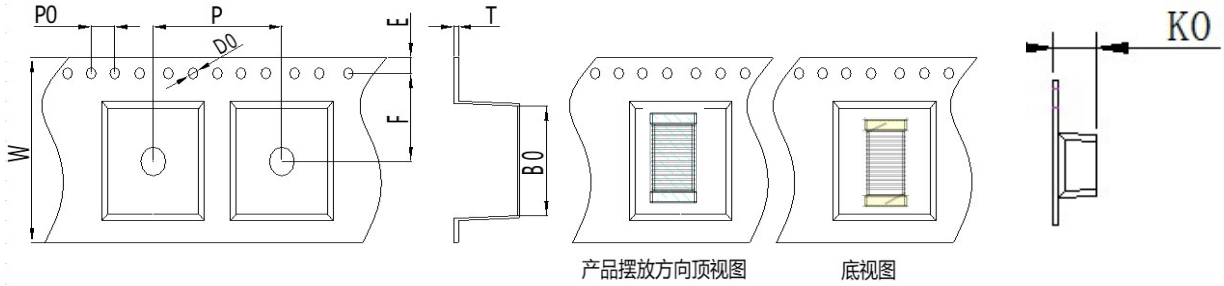


*CARRIER TAPE WIDTH：D

	13″ 盘	7″ 盘
A	Φ330±2.0	Φ178±2.0



Peel-off strength:20～140gf.
Peel-off angle:165°-180°
Peel-off speed:300mm/min.



尺寸	P		W		F		T	K0
	8.0±0.1		12.0±0.3		7.5±0.2		0.4±0.1	1.0±0.15
	A	B	C	D	G	N	T	
	330	21	13	12±0.3	13	100	16	

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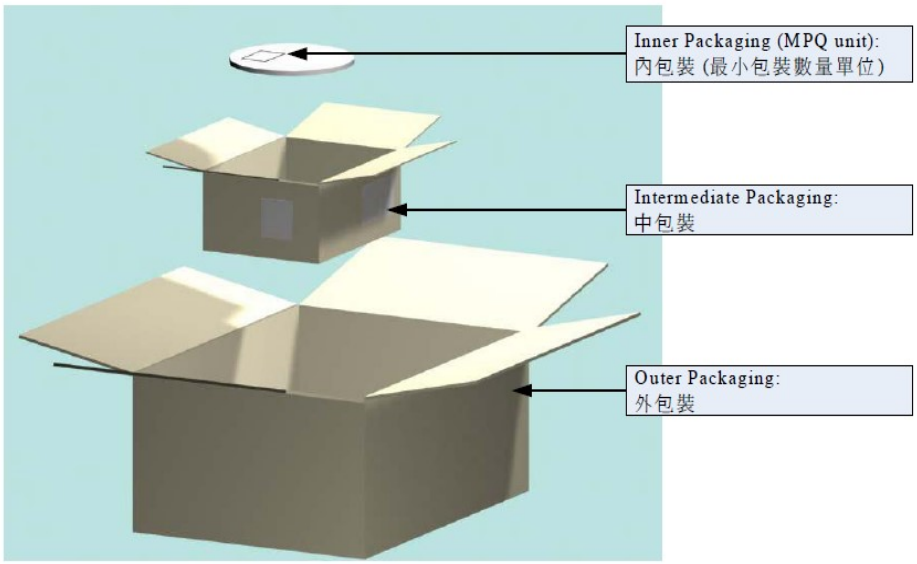
5. CARTON



1.1 外箱: 36*36*23 cm 一箱装 2内箱
1.2 内箱: 33.5*33.5*9 cm 一箱装5卷制品
1.3 外箱材質: A三A
1.4 内箱材質: A=A
1.5 每一卷制品用一只真空袋包装
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:90mm 宽度:50mm
(如: 客戶有特殊要求時, 則依客戶要求實施.)

卷轴包装数量		
每卷	5000	PCS

内箱包装数量				
每箱	5	卷,共	25000	PCS

外箱包装数量				
每箱	10	卷,共	50000	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

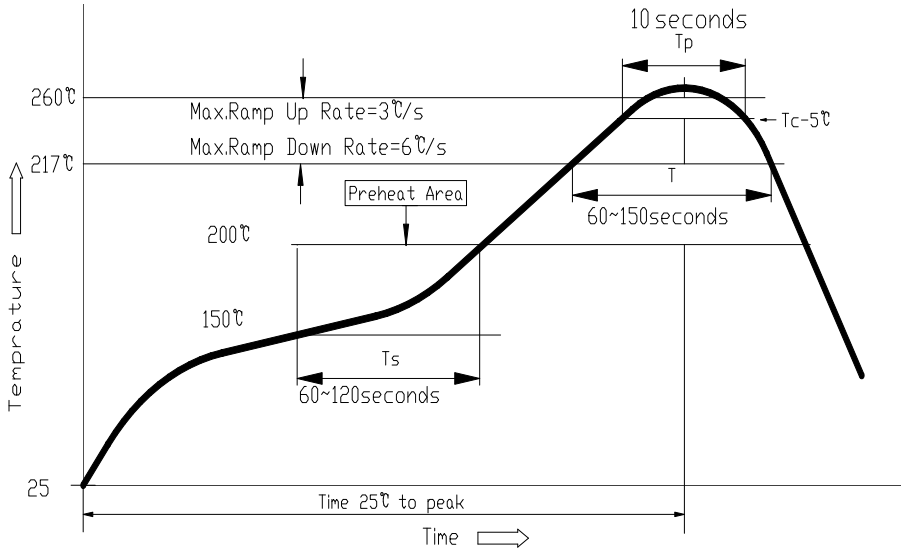
Applicable soldering process to the products is refl.

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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