承　　认　　书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	21/Feb/2025	REVISION NO.	A
PART NO.	CKWLF0805ES Series		
DRAWN NO.			
DESCRIPTION.	RF INDUCTOR		
Customer's Signature			

Approved by	Checked by	Drawn by
黄大燕	黄大燕	梁智坤
21/Feb/2025	21/Feb/2025	21/Feb/2025

广 东 今 凯 电 子 科 技 有 限 公 司

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GUANG DONG CHK ELECTRONIC TECH Co., Ltd

ECN HISTORY LIST

REV	DATE	DESCRIPTION	CHECK	APPROVED
A	2月21日	新规作成	梁智坤	黄大燕

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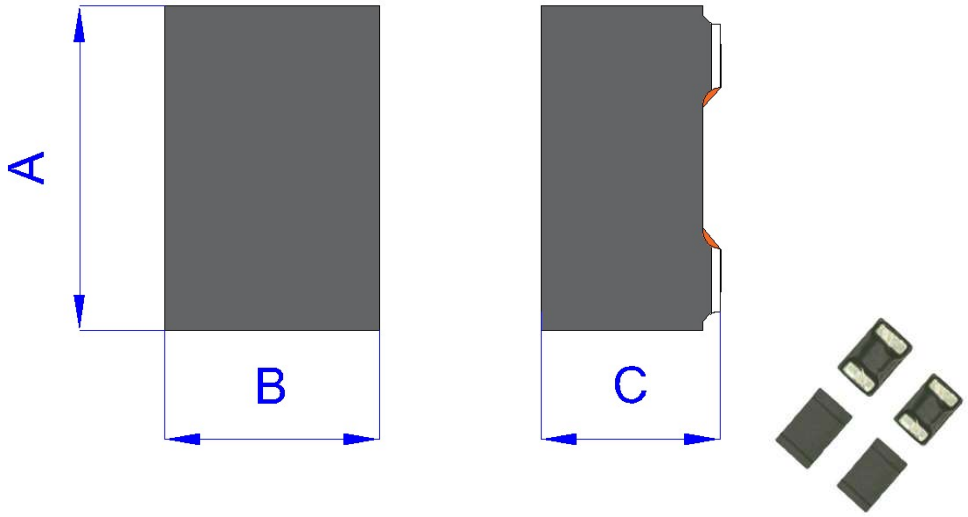
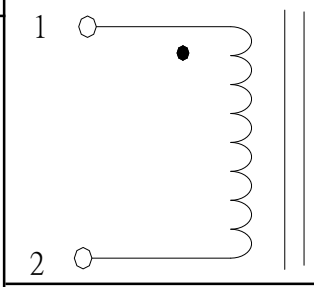
1.SHAPE & DIMENSION

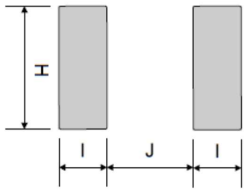
UNIT: mm



SCHEMATICS



Recommended land pattern



A	B	C	H	I	J
2.4	1.73	1.52	1.78	1.02	0.76
MAX	MAX	MAX	Ref	Ref	Ref

PART NUMBERING SYSTEM

CK	WLF	0805	ES	-	100	M	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 **MATERIAL TYPE （材料种类）**
5 **INDUCTANCE （电感量）**
6 **TOLERANCE （公差）** **K:±10% M:±20%**
7 **PACKAGING （包装方式）** **C - 编带盘装**

APPROVED BY	CHECKED BY	DRAFT BY
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2.SERIES SPECIFICATION

◆CKWLF0805ES Specification:

Part Number	Inductance	Teat Freq	DCR(mΩ)		Rated Current (mA)	SRF MHz	Q Factor
	uH	MHz	Max	Typ	Max	Min	Min
CKWLF0805ES-1R0MC	1.0	1MHz	144	120	1200.00	550	10
CKWLF0805ES-1R5MC	1.5		156	130	900.00	450	10
CKWLF0805ES-2R2MC	2.2		216	180	780.00	100	10
CKWLF0805ES-4R7MC	4.7		396	330	510.00	150	10
CKWLF0805ES-6R8MC	6.8		420	350	470.00	50	10
CKWLF0805ES-100MC	10		636	530	410.00	35	10
CKWLF0805ES-150MC	15		780	650	270.00	25	10
CKWLF0805ES-220MC	22		1140	950	270.00	10	9

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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)	铁氧体	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	1MHz	Microtest 6377
Isat		TH1773
DCR		TH2512B
SRF		4991A

*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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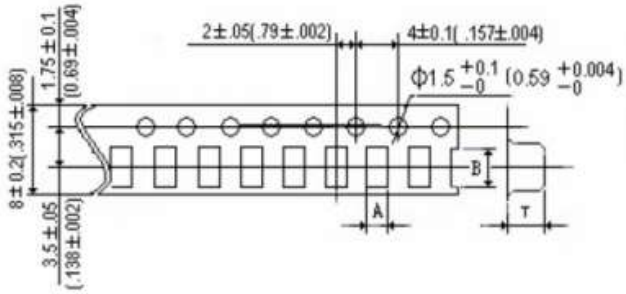
4.PACKAGING(unit: mm)

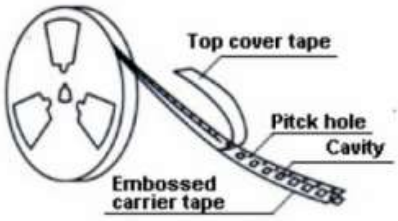
1.包装类型 **2.包装尺寸** □ 13″ 盘 ■ 7″ 盘

◆ **Packaging Style**

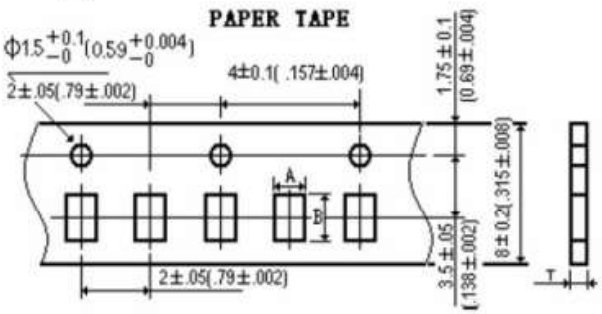
1、Tape

POLYSTYRENE TAPE

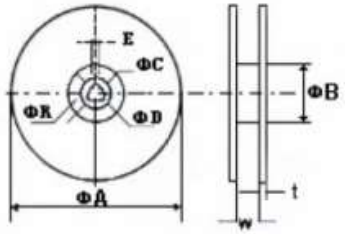




PAPER TAPE



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

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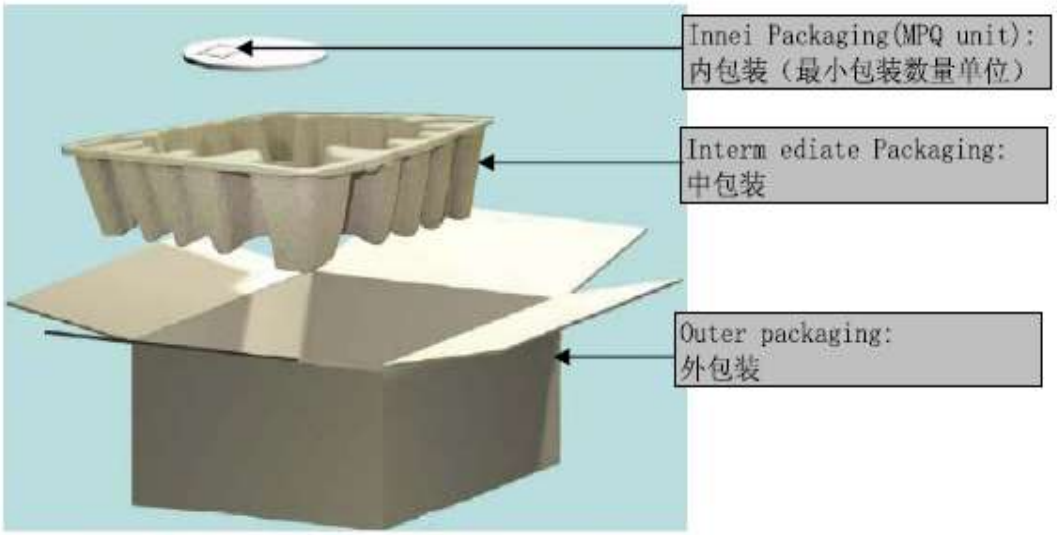
5. CARTON



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	2000	PCS

外箱包装数量				
每箱	40	卷,共	80000	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

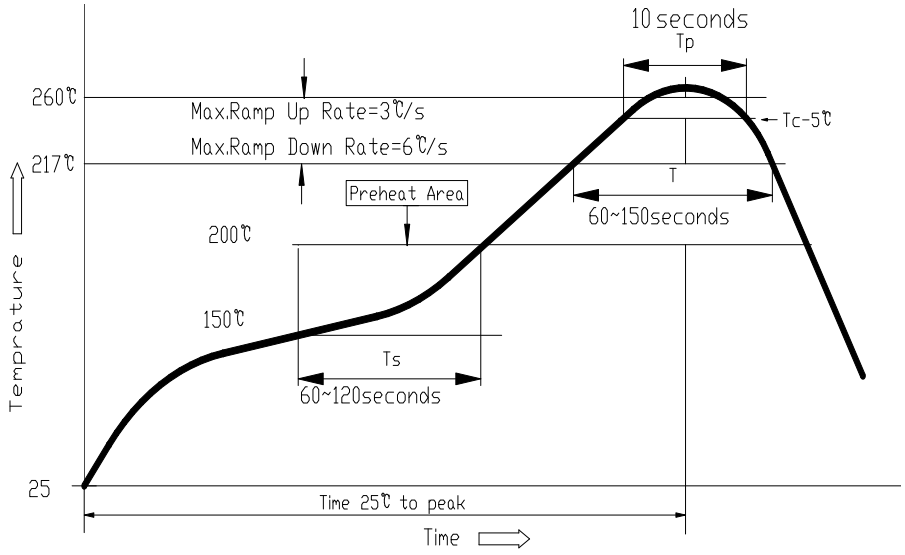
Applicable soldering process to the products is refl.

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

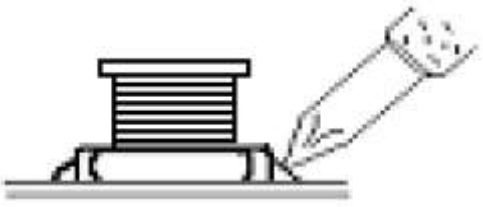
Reworking with electric solding iron must preheating at 150℃ for 1 minute is required,and do not directly touch the core with the tip of the soldering iron.The reworking soldering conditions are as follows.

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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