

承 认 书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	05/Mar/2025	REVISION NO.	A
PART NO.	CKNR5012B Series		
DRAWN NO.			
DESCRIPTION.	SMD POWER INDUCTOR		
Customer's Signature			
Approved by	Checked by	Drawn by	
黄大燕	黄大燕	林树英	
05/Mar/2025	05/Mar/2025	05/Mar/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, Guangdong Province

www.gzchk.com



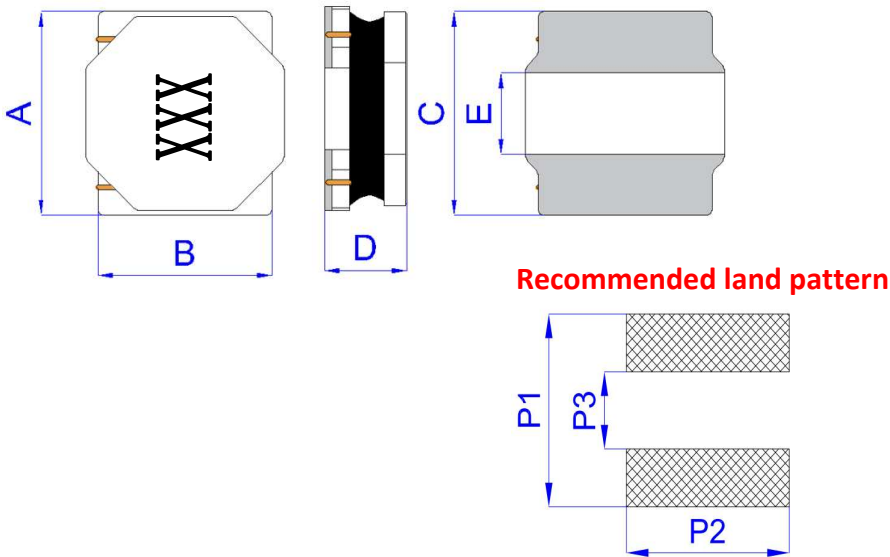
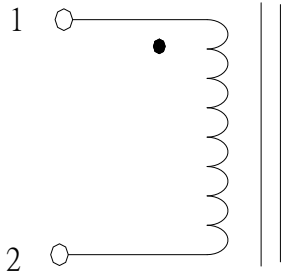
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DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR5012B Series	DATE	2025/3/5

1.SHAPE & DIMENSION

UNIT: mm						SCHEMATICS	
							
						MARKING COLOR	
						BLACK	
A	B	C	D	E	P1	P2	P3
5	5	5	1.1	2	5.2	4.7	2.6
±0.2	±0.2	±0.2	±0.1	±0.2	Ref.	Ref.	Ref.

PART NUMBERING SYSTEM

CK NR 5012 B - 2R2 M C
1 2 3 4 5 6 7

- CHK PRODUCTION (今凯制造)
- PRODUCT CATEGORY (产品种类) NR-镍锌 NRS-合金
- DIMENSIONS (尺寸规格)
- MAERTIAL TYPE (材料类型)
- INDUCTANCE (电感量)
- TOLERANCE (公差) M:±20% N:±25% Y:±30%
- PACKAGING (包装方式) C - 编带盘装 B - 盒装

APPROVED BY	CHECKED BY	DRAFT BY
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PART NO.	CKNR5012B Series	DATE	2025/3/5

2.SERIES SPECIFICATION

◆ CKNR5012B Series

Specification:

Part Number	Inductance	Test Freq	DCR (mΩ)		Saturation Current (A)		Temp. Rise Current (A)	
	(μH)	(Hz)	Max	Typ	Max	Typ	Max	Typ
CKNR5012B-1R0YC	1.00	100KHz/1V	79	53	3.0	4.5	3.4	3.9
CKNR5012B-1R5YC	1.50		91	67	3.2	3.5	3.2	3.8
CKNR5012B-2R2MC	2.20		105	82	2.5	2.9	2.6	3.2
CKNR5012B-3R3MC	3.30		130	96	2.3	2.6	2.3	2.6
CKNR5012B-4R7MC	4.70		170	130	1.8	2.0	2.2	2.4
CKNR5012B-6R8MC	6.80		245	187	1.5	1.7	1.7	2.0
CKNR5012B-100MC	10.0		350	262	1.3	1.4	1.5	1.8
CKNR5012B-150MC	15.0		455	347	0.9	1.0	1.1	1.3
CKNR5012B-220MC	22.0		694	571	0.8	0.9	0.9	1.1

◆ TEST CONDITION

ITEM	TEST CONDITION	TEST INSTRUMENTS
L	100KHz/1V	Microtest 6377
Isat		TH1773+Microtest 6377
Irms		
DCR	25±5℃	TH2512B

*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 $\Delta T \leq 40^{\circ}\text{C}$. ($T_a=25^{\circ}\text{C}$)

*For CKNR5012B Series size inductors, absolute maximum voltage: DC 50 V.

※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	环保要求	备注
ITEM	Materials	Manufacturer	EN.QU	Note
磁芯1 (Drum Core)	镍锌 (Nickel-Zinc)	DJ	RoHS	Primary
铜线 (Wire)	Polyester Wire or equivalent	ELEKTRISOLA	RoHS	
胶水 (Glue)	Phenolic epoxy resin	DAJOO	RoHS	
锡 (Solder)	107H	QD	RoHS	Primary
锡 (Solder)	107H	TF	RoHS	Alternative

GENERAL SPECIFICATION

Electrical specifications :	at 20~25℃
Operation Temperature :	-40~+125℃
Storage Temperature :	-40~+125℃

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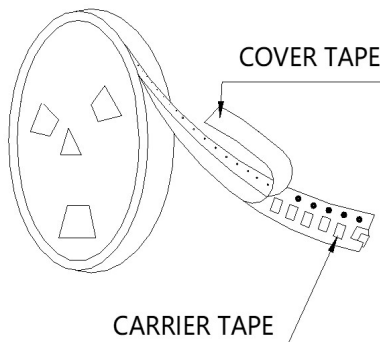
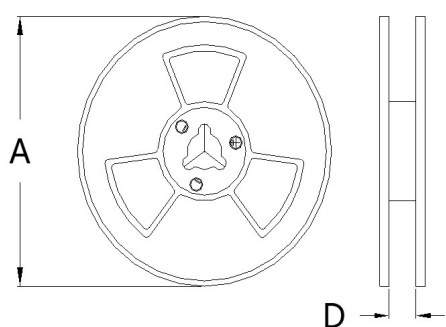
4.PACKAGING(unit: mm)

1.包装类型

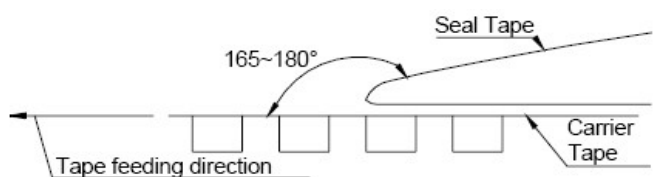
2.包装尺寸

☒ 13" 盘

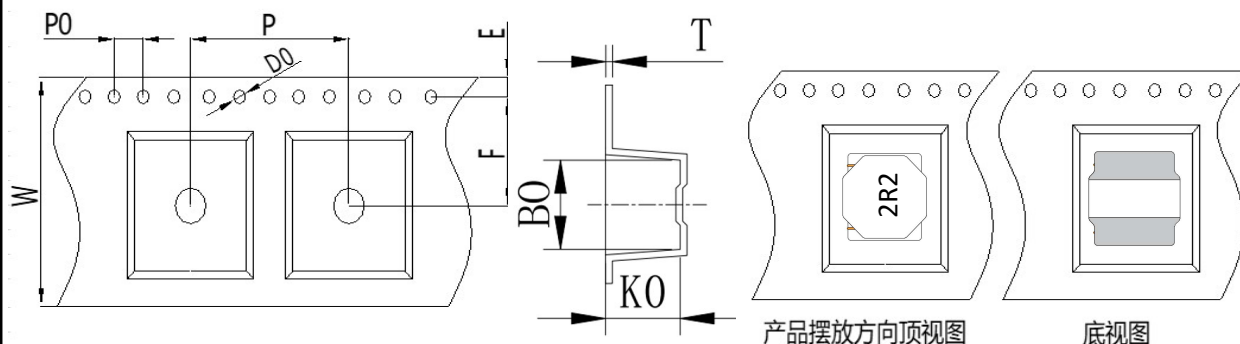
☐ 7" 盘



	13" 盘	7" 盘
A	$\Phi 330 \pm 2.0$	$\Phi 178 \pm 2.0$
D	12.4	



Peel-off strength:10~100gf.
Peel-off angle:165°-180°
Peel-off speed:300mm/min.



Item	W	B0	P	T	E	F	D0	P0	K0	
DIM(mm)	12.0±0.3	5.5±0.1	8.0±0.1	0.3±0.05	1.75±0.1	5.5±0.1	1.5±0.1	4.0±0.1	1.4±0.1	

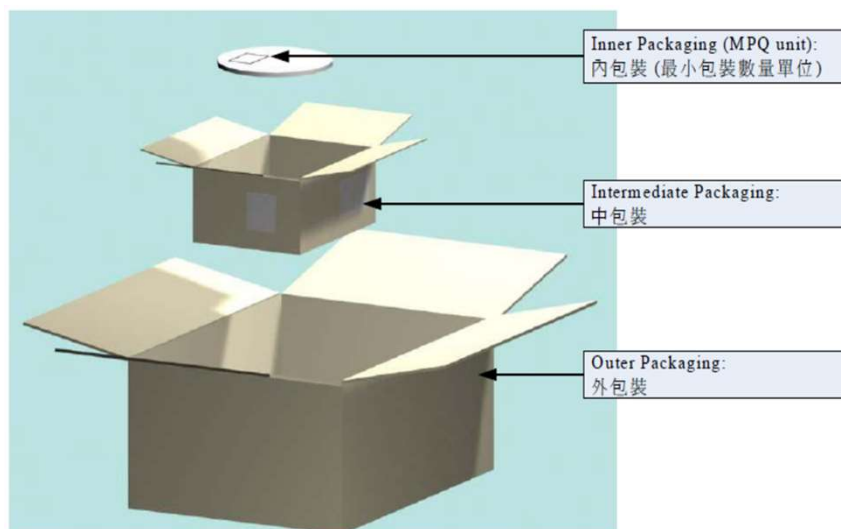
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5. CARTON



1.1 外箱: 36*36*23 cm 一箱裝 2內箱

1.2 內箱: 33.5*33.5*9 cm 一箱裝5卷制品

1.3 外箱材質: A三A

1.4 內箱材質: A=A

1.5 每一卷制品用一只静电袋包裝

1.6 每一静电袋內放一只袋干燥剂

1.7 每一卷上面依标签样式的要求贴上标签明细

1.8 出货內外箱贴上该箱內实际內容明细

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.)

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 4500 PCS

內箱包装数量

每箱 5 卷,共 22500 PCS

外箱包装数量

每箱 10 卷,共 45000 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

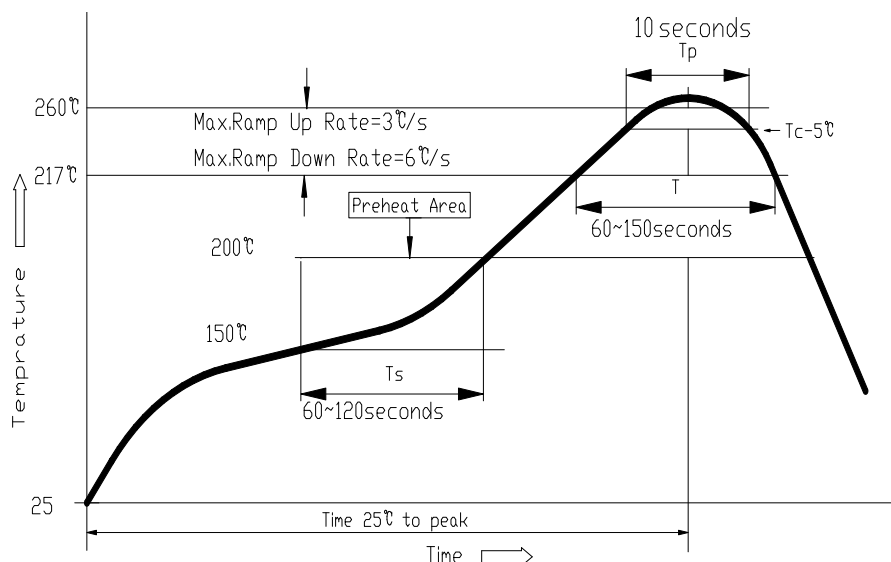
Applicable soldering process to the products is refl.

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℃ 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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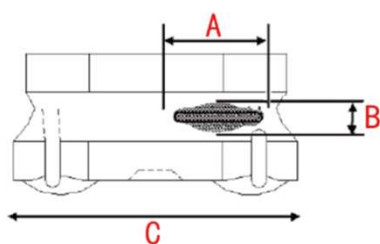


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8.Appearance of the standard

1.Void appearance tolerance limit



Size of voids occurring to coating resin is specified below.

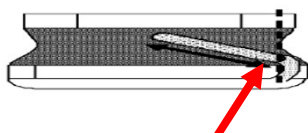
①Width direction(dimension A): Acceptable when $A \leq C/2$

Nonconforming when $B \geq C/2$

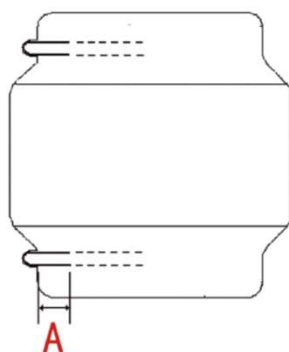
②Length direction(dimension B):Dimension b is not specified

③When total area of voids (including one exposing coil) occurring to each sides is not greater than 50% of coating resin area,that is acceptable.

2.External appearance criterion for exposed wire



Exposed end of the winding wire at the secondary side should be 3.0mm and below.



①Acceptable when $A \leq 0.8\text{mm}$

②Nonconforming when $A > 0.8\text{mm}$

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JINKAI P/N: CKNR5012B-1R0YC

PART NO. CKNR5012B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25°C

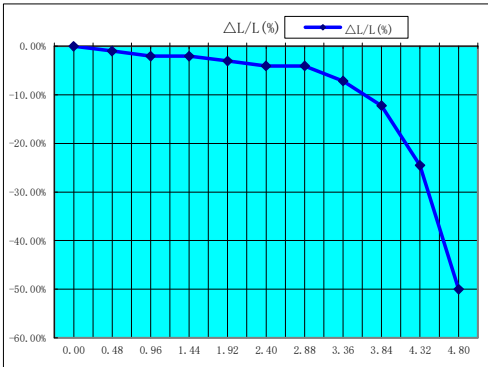
DATE 2025/3/5

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION									DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A					長 mm	寬 mm	高 mm
SPEC.	1	79	3.00	ΔL/L≤-30%	2.50				上限	5.2	5.2	1.2
	± 30%	Max.	Max.		ΔT≤40℃ ℃				下限	4.8	4.8	MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	0.98	54.7	0.85	-13.27%	OK					4.96	5.01	1.14
2	0.99	54.8	0.86	-13.13%	OK					4.96	5.08	1.13
3	0.97	53.2	0.86	-11.34%	OK					4.95	5.06	1.16
4	0.96	53.9	0.84	-12.50%	OK					4.96	5.01	1.14
5	1.00	52.6	0.89	-11.00%	OK					4.96	5.08	1.13
6	0.96	53.3	0.84	-12.50%	OK					4.96	5.01	1.14
7	0.98	51.0	0.85	-13.27%	OK					4.96	5.08	1.13
8	0.97	53.7	0.86	-11.34%	OK					4.95	5.06	1.16
9	0.94	53.1	0.81	-13.83%	OK					4.98	5.01	1.18
10	0.99	53.2	0.84	-15.15%	OK					4.99	5.03	1.13
AVG.	0.974	53.35	0.85	-12.73%						4.963	5.043	1.144
R	0.06	3.8	0.08	4.15%						0.04	0.07	0.05

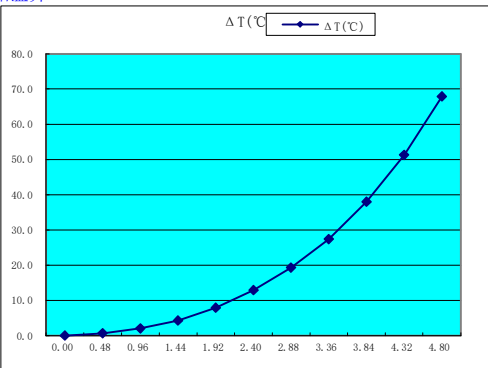
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	0.98	0.00%
1	0.48	0.97	-1.02%
1	0.96	0.96	-2.04%
1	1.44	0.96	-2.04%
1	1.92	0.95	-3.06%
1	2.40	0.94	-4.08%
1	2.88	0.94	-4.08%
1	3.36	0.91	-7.14%
1	3.84	0.86	-12.24%
1	4.32	0.74	-24.49%
1	4.80	0.49	-50.00%



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TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(°C)	ΔT(°C)
30	0.00	1.00	0.00%	22.3	0.0
30	0.48	1.00	0.00%	23.0	0.7
30	0.96	0.99	-1.00%	24.4	2.1
30	1.44	0.98	-2.00%	26.6	4.3
30	1.92	0.97	-3.00%	30.2	7.9
30	2.40	0.96	-4.00%	35.2	12.9
30	2.88	0.95	-5.00%	41.6	19.3
30	3.36	0.91	-9.00%	49.7	27.4
30	3.84	0.82	-18.00%	60.3	38.0
30	4.32	0.60	-40.00%	73.6	51.3
30	4.80	0.38	-62.00%	90.2	67.9



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DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

DATE 2025/3/5

TEST DATA FOR PREPRODUCTION SAMPLE												
TEST RESOLUTION								DIMENSION (Unit : mm)				
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm	
SPEC.	1.5 ± 30%	91 Max.	2.70 Max.	ΔL/L≤-30%	2.40 ΔT≤40℃ ℃				上限 下限	5.2 4.8	5.2 4.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	1.54	67.9	1.30	-15.58%	OK				4.96	5.01	1.14	
2	1.52	66.8	1.28	-15.79%	OK				4.96	5.08	1.13	
3	1.53	66.8	1.24	-18.95%	OK				4.95	5.06	1.16	
4	1.50	67.8	1.21	-19.33%	OK				4.96	5.01	1.14	
5	1.49	68.1	1.21	-18.79%	OK				4.96	5.08	1.13	
6	1.47	66.0	1.20	-18.37%	OK				4.96	5.01	1.14	
7	1.58	68.5	1.29	-18.35%	OK				4.96	5.08	1.13	
8	1.60	66.2	1.32	-17.50%	OK				4.95	5.06	1.16	
9	1.53	65.4	1.21	-20.92%	OK				4.98	5.01	1.18	
10	1.56	67.2	1.25	-19.87%	OK				4.99	5.03	1.13	
AVG.	1.532	67.07	1.251	-18.35%					4.963	5.043	1.144	
R	0.13	3.1	0.12	5.33%					0.04	0.07	0.05	

Isat(飽和電流):電感瞬間的突波電流			
TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	1.58	0.00%
1	0.40	1.57	-0.63%
1	0.80	1.56	-1.27%
1	1.20	1.54	-2.53%
1	1.60	1.52	-3.80%
1	2.00	1.52	-3.80%
1	2.40	1.48	-6.33%
1	2.80	1.42	-10.13%
1	3.20	1.31	-17.09%
1	3.60	1.05	-33.54%
1	4.00	0.65	-58.86%

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TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	1.43	0.00%	29.5	0.0
30	0.40	1.42	-0.70%	29.5	0.0
30	0.80	1.40	-2.10%	30.3	0.8
30	1.20	1.39	-2.80%	31.8	2.3
30	1.60	1.38	-3.50%	34.2	4.7
30	2.00	1.37	-4.20%	37.7	8.2
30	2.40	1.35	-5.59%	42.1	12.6
30	2.80	1.29	-9.79%	48.0	18.5
30	3.20	1.17	-18.18%	55.0	25.5
30	3.60	0.94	-34.27%	64.2	34.7
30	4.00	0.61	-57.34%	75.5	46.0

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TEST R.H. 80~85%

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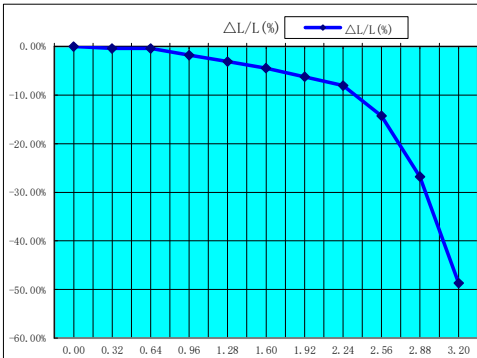
DATE 2025/3/5

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION							DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A			長 mm	寬 mm	高 mm
SPEC.	2.2 ± 20%	105 Max.	2.00 Max.	ΔL/L≤-30%	1.90 ΔT≤40℃ ℃			上限 下限	5.2 4.8	5.2 4.8 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	2.22	81.2	2.00	-9.91%	OK			5.01	5.00	1.19
2	2.18	83.4	2.02	-7.34%	OK			5.02	5.01	1.18
3	2.21	81.6	2.05	-7.24%	OK			5.01	4.99	1.19
4	2.20	81.5	2.01	-8.64%	OK			4.98	4.97	1.18
5	2.21	83.3	1.99	-9.95%	OK			4.99	4.96	1.19
6	2.26	82.9	1.98	-12.39%	OK			5.02	4.99	1.16
7	2.24	82.1	2.00	-10.71%	OK			5.01	5.01	1.18
8	2.23	81.2	2.01	-9.87%	OK			5.06	5.03	1.16
9	2.20	81.7	2.00	-9.09%	OK			5.06	5.01	1.18
10	2.13	82.9	1.98	-7.04%	OK			5.04	5.02	1.19
AVG.	2.208	82.18	2.004	-9.22%				5.02	4.999	1.18
R	0.13	2.2	0.07	5.35%				0.08	0.07	0.03

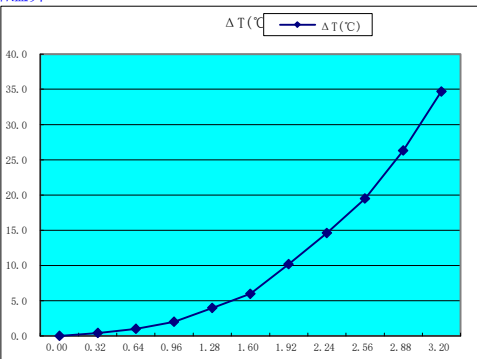
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	2.24	0.00%
1	0.32	2.23	-0.45%
1	0.64	2.23	-0.45%
1	0.96	2.20	-1.79%
1	1.28	2.17	-3.13%
1	1.60	2.14	-4.46%
1	1.92	2.10	-6.25%
1	2.24	2.06	-8.04%
1	2.56	1.92	-14.29%
1	2.88	1.64	-26.79%
1	3.20	1.15	-48.66%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	2.23	0.00%	29.0	0.0
30	0.32	2.23	0.00%	29.4	0.4
30	0.64	2.21	-0.90%	30.0	1.0
30	0.96	2.18	-2.24%	31.0	2.0
30	1.28	2.15	-3.59%	33.0	4.0
30	1.60	2.12	-4.93%	35.0	6.0
30	1.92	2.07	-7.17%	39.2	10.2
30	2.24	2.01	-9.87%	43.6	14.6
30	2.56	1.83	-17.94%	48.5	19.5
30	2.88	1.43	-35.87%	55.3	26.3
30	3.20	0.90	-59.64%	63.7	34.7



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR5012B-3R3MC

PART NO. CKNR5012B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

DATE 2025/3/5

TEST DATA FOR PREPRODUCTION SAMPLE												
TEST RESOLUTION								DIMENSION (Unit : mm)				
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm	
SPEC.	3.3 ± 20%	130 Max.	1.90 Max.	ΔL/L≤-30%	1.70 ΔT≤40℃ ℃				上限 下限	5.2 4.8	5.2 4.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	3.17	99.4	2.68	-15.46%	OK				5.03	5.01	1.19	
2	3.26	95.2	2.80	-14.11%	OK				5.01	5.30	1.18	
3	3.22	96.2	2.74	-14.91%	OK				5.02	5.01	1.16	
4	3.13	97.9	2.69	-14.06%	OK				5.06	5.00	1.17	
5	3.27	97.8	2.74	-16.21%	OK				5.02	5.03	1.19	
6	3.19	95.4	2.65	-16.93%	OK				4.98	5.00	1.16	
7	3.17	94.2	2.71	-14.51%	OK				4.99	4.98	1.18	
8	3.28	96.5	2.70	-17.68%	OK				4.97	4.96	1.16	
9	3.30	96.3	2.71	-17.88%	OK				5.03	5.01	1.18	
10	3.28	95.4	2.69	-17.99%	OK				5.02	5.00	1.17	
AVG.	3.227	96.43	2.711	-15.97%					5.013	5.03	1.174	
R	0.17	5.2	0.15	3.93%					0.09	0.34	0.03	

Isat(飽和電流):電感瞬間的突波電流			
TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	3.03	0.00%
1	0.29	3.01	-0.66%
1	0.57	2.99	-1.32%
1	0.86	2.97	-1.98%
1	1.14	2.91	-3.96%
1	1.43	2.87	-5.28%
1	1.71	2.81	-7.26%
1	2.00	2.73	-9.90%
1	2.28	2.60	-14.19%
1	2.57	2.21	-27.06%
1	2.85	1.48	-51.16%

單點溫昇					
TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	2.98	0.00%	21.5	0.0
30	0.29	2.97	-0.34%	21.5	0.0
30	0.57	2.95	-1.01%	22.2	0.7
30	0.86	2.91	-2.35%	23.8	2.3
30	1.14	2.87	-3.69%	26.1	4.6
30	1.43	2.85	-4.36%	29.5	8.0
30	1.71	2.76	-7.38%	33.8	12.3
30	2.00	2.66	-10.74%	39.5	18.0
30	2.28	2.44	-18.12%	46.5	25.0
30	2.57	1.90	-36.24%	55.1	33.6
30	2.85	1.11	-62.75%	67.3	45.8

承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR5012B-4R7MC

PART NO. CKNR5012B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

DATE 2025/3/5

TEST DATA FOR PREPRODUCTION SAMPLE												
TEST RESOLUTION								DIMENSION (Unit : mm)				
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm	
SPEC.	4.7 ± 20%	170 Max.	1.50 Max.	ΔL/L≤-30%	1.40 ΔT≤40℃ ℃				上限 下限	5.2 4.8	5.2 4.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	5.01	133	4.00	-20.16%	OK				5.00	4.98	1.15	
2	5.03	135	4.02	-20.08%	OK				5.01	4.99	1.16	
3	5.01	127	4.01	-19.96%	OK				5.06	5.02	1.15	
4	4.88	127	4.03	-17.42%	OK				5.01	5.01	1.18	
5	4.94	132	4.00	-19.03%	OK				5.03	5.00	1.19	
6	4.98	132	3.99	-19.88%	OK				5.02	5.03	1.17	
7	4.94	131	3.96	-19.84%	OK				5.01	5.00	1.16	
8	4.90	132	3.99	-18.57%	OK				5.00	4.99	1.15	
9	5.00	127	4.00	-20.00%	OK				4.99	5.02	1.15	
10	4.98	127	4.00	-19.68%	OK				4.97	5.03	1.18	
AVG.	4.967	130.3	4	-19.46%					5.01	5.007	1.164	
R	0.15	8	0.07	2.74%					0.09	0.05	0.04	

Isat(飽和電流):電感瞬間的突波電流			
TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	4.51	0.00%
1	0.22	4.52	0.22%
1	0.44	4.51	0.00%
1	0.66	4.50	-0.22%
1	0.88	4.46	-1.11%
1	1.10	4.40	-2.44%
1	1.32	4.30	-4.66%
1	1.54	4.13	-8.43%
1	1.76	3.89	-13.75%
1	1.98	3.22	-28.60%
1	2.20	2.27	-49.67%

單點溫昇					
TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	4.57	0.00%	30.6	0.0
30	0.22	4.58	0.22%	31.4	0.8
30	0.44	4.58	0.22%	32.0	1.4
30	0.66	4.56	-0.22%	33.1	2.5
30	0.88	4.52	-1.09%	34.3	3.7
30	1.10	4.45	-2.63%	36.3	5.7
30	1.32	4.33	-5.25%	38.6	8.0
30	1.54	4.10	-10.28%	41.6	11.0
30	1.76	3.67	-19.69%	45.0	14.4
30	1.98	2.97	-35.01%	49.5	18.9
30	2.20	2.02	-55.80%	54.7	24.1

承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR5012B-6R8MC

PART NO. CKNR5012B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

DATE 2025/3/5

TEST DATA FOR PREPRODUCTION SAMPLE												
TEST RESOLUTION								DIMENSION (Unit : mm)				
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm	
SPEC.	6.8 ± 20%	245 Max.	1.30 Max.	ΔL/L≤-30%	1.30 ΔT≤40℃ ℃				上限 下限	5.2 4.8	5.2 4.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	6.73	188	5.61	-16.64%	OK				5.02	4.98	1.16	
2	6.71	186	5.52	-17.73%	OK				5.00	4.99	1.16	
3	6.63	187	5.35	-19.31%	OK				5.03	4.96	1.18	
4	6.56	186	5.51	-16.01%	OK				5.00	4.99	1.19	
5	6.59	189	5.54	-15.93%	OK				5.06	5.03	1.18	
6	6.69	188	5.61	-16.14%	OK				5.01	5.01	1.17	
7	6.66	187	5.54	-16.82%	OK				5.06	5.00	1.15	
8	6.72	188	5.51	-18.01%	OK				5.02	5.03	1.16	
9	6.64	190	5.46	-17.77%	OK				4.99	5.01	1.19	
10	6.62	189	5.36	-19.03%	OK				4.98	5.00	1.16	
AVG.	6.655	187.8	5.501	-17.34%					5.017	5	1.17	
R	0.17	4	0.26	3.37%					0.08	0.07	0.04	

Isat(飽和電流):電感瞬間的突波電流			
TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	6.22	0.00%
1	0.19	6.25	0.48%
1	0.38	6.19	-0.48%
1	0.57	6.19	-0.48%
1	0.76	6.10	-1.93%
1	0.95	5.98	-3.86%
1	1.14	5.83	-6.27%
1	1.33	5.58	-10.29%
1	1.52	5.11	-17.85%
1	1.71	4.30	-30.87%
1	1.90	3.22	-48.23%

單點溫昇					
TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	6.31	0.00%	32.5	0.0
30	0.19	6.23	-1.27%	33.0	0.5
30	0.38	6.30	-0.16%	34.0	1.5
30	0.57	6.26	-0.79%	35.1	2.6
30	0.76	6.14	-2.69%	36.6	4.1
30	0.95	5.99	-5.07%	38.7	6.2
30	1.14	5.78	-8.40%	41.3	8.8
30	1.33	5.42	-14.10%	44.7	12.2
30	1.52	4.79	-24.09%	48.9	16.4
30	1.71	3.81	-39.62%	53.6	21.1
30	1.90	2.74	-56.58%	59.4	26.9

承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR5012B-100MC

PART NO. CKNR5012B Series

DRAWN NO.

TEST R.H. 80~85%

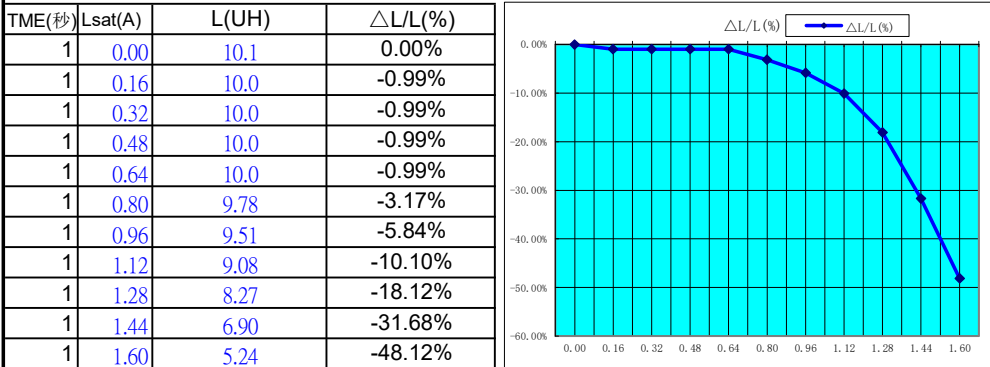
TEST TEMP. 20~25℃

DATE 2025/3/5

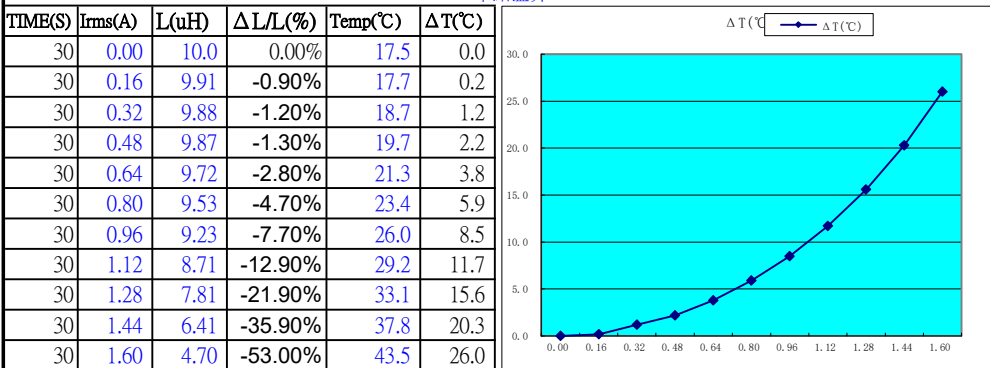
TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION								DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm
SPEC.	10.0 ± 20%	350 Max.	1.00 Max.	ΔL/L≤-30%	1.00 ΔT≤40℃ ℃				上限 5.2 下限 4.8	5.2 4.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	10.4	266	9.18	-11.7%	OK				5.00	5.01	1.16
2	10.0	263	8.98	-10.2%	OK				5.01	4.99	1.15
3	10.0	264	9.12	-8.8%	OK				5.00	4.99	1.18
4	10.3	263	9.25	-10.2%	OK				4.99	4.97	1.16
5	10.6	267	8.96	-15.5%	OK				5.03	4.96	1.15
6	10.1	260	8.99	-11.0%	OK				5.00	4.99	1.17
7	10.4	259	9.01	-13.4%	OK				5.01	5.03	1.19
8	10.3	256	9.21	-10.6%	OK				5.03	5.00	1.16
9	10.2	264	9.05	-11.3%	OK				5.00	5.02	1.15
10	10.5	258	9.10	-13.3%	OK				5.01	5.03	1.16
AVG.	10.280	262	9.085	-11.59%					5.008	4.999	1.163
R	0.6	11	0.29	6.67%					0.04	0.07	0.04

Isat(飽和電流):電感瞬間的突波電流



單點溫昇



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR5012B-150MC

PART NO. CKNR5012B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

DATE 2025/3/5

TEST DATA FOR PREPRODUCTION SAMPLE												
TEST RESOLUTION								DIMENSION (Unit : mm)				
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm	
SPEC.	15.0 ± 20%	455 Max.	0.90 Max.	ΔL/L≤-30%	0.90 ΔT≤40℃ ℃				上限 下限	5.2 4.8	5.2 4.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	14.3	347	12.0	-16.08%	OK				4.99	5.07	1.16	
2	15.0	343	13.1	-12.67%	OK				4.98	5.04	1.16	
3	14.4	348	12.0	-16.67%	OK				4.98	5.10	1.13	
4	14.2	345	12.4	-12.68%	OK				4.99	5.07	1.16	
5	14.6	349	12.1	-17.12%	OK				4.98	5.04	1.16	
6	14.5	349	12.0	-17.24%	OK				4.99	5.07	1.16	
7	14.9	353	12.2	-18.12%	OK				4.98	5.04	1.16	
8	14.1	350	11.9	-15.60%	OK				4.98	5.10	1.13	
9	14.7	346	12.3	-16.33%	OK				4.99	5.07	1.14	
10	14.5	342	12.5	-13.79%	OK				4.98	5.06	1.14	
AVG.	14.520	347.2	12.25	-15.63%					4.984	5.066	1.15	
R	0.9	11	1.2	5.45%					0.01	0.06	0.03	

Isat(飽和電流):電感瞬間的突波電流			
TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	14.3	0.00%
1	0.12	14.4	0.70%
1	0.24	14.3	0.00%
1	0.36	14.3	0.00%
1	0.48	14.2	-0.70%
1	0.60	14.0	-2.10%
1	0.72	13.7	-4.20%
1	0.84	13.1	-8.39%
1	0.96	12.0	-16.08%
1	1.08	10.0	-30.07%
1	1.20	6.54	-54.27%

單點溫昇					
TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	14.2	0.00%	26.2	0.0
30	0.12	14.3	0.70%	26.5	0.3
30	0.24	14.2	0.00%	27.5	1.3
30	0.36	14.2	0.00%	28.3	2.1
30	0.48	14.1	-0.70%	29.7	3.5
30	0.60	13.9	-2.11%	31.5	5.3
30	0.72	13.6	-4.23%	33.9	7.7
30	0.84	13.0	-8.45%	36.9	10.7
30	0.96	11.8	-16.90%	40.3	14.1
30	1.08	9.28	-34.65%	44.6	18.4
30	1.20	5.75	-59.51%	50.0	23.8

承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR5012B-220MC

PART NO. CKNR5012B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

DATE 2025/3/5

TEST DATA FOR PREPRODUCTION SAMPLE												
TEST RESOLUTION								DIMENSION (Unit : mm)				
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm	
SPEC.	22.0 ± 20%	694 Max.	0.80 Max.	ΔL/L≤-30%	0.80 ΔT≤40℃ ℃				上限 4.8	5.2 4.8	1.2 MAX	
TEST FREQ.	100KHz/1V		100KHz/1V									
1	20.2	572	16.8	-16.83%	OK				4.99	5.07	1.16	
2	20.3	566	17.0	-16.26%	OK				4.98	5.04	1.16	
3	20.4	580	17.2	-15.69%	OK				4.98	5.10	1.13	
4	20.1	564	17.1	-14.93%	OK				4.99	5.07	1.16	
5	20.3	569	16.9	-16.75%	OK				4.98	5.04	1.16	
6	20.6	576	17.0	-17.48%	OK				4.99	5.07	1.16	
7	20.3	566	17.0	-16.26%	OK				4.98	5.04	1.16	
8	20.2	568	16.2	-19.80%	OK				4.98	5.10	1.13	
9	20.4	573	17.1	-16.18%	OK				4.99	5.07	1.14	
10	20.1	576	16.5	-17.91%	OK				4.98	5.06	1.14	
AVG.	20.290	571	16.88	-16.81%					4.984	5.066	1.15	
R	0.5	16	1	4.88%					0.01	0.06	0.03	

Isat(飽和電流):電感瞬間の突波電流					
TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)		
1	0.00	22.1	0.00%		
1	0.11	22.0	-0.45%		
1	0.22	21.9	-0.90%		
1	0.33	21.8	-1.36%		
1	0.44	21.3	-3.62%		
1	0.55	20.9	-5.43%		
1	0.66	20.4	-7.69%		
1	0.77	19.6	-11.31%		
1	0.88	18.0	-18.55%		
1	0.99	14.7	-33.48%		
1	1.10	10.3	-53.39%		

單點溫昇							
TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)		
30	0.00	20.8	0.00%	28.9	0.0		
30	0.11	20.8	0.00%	29.0	0.1		
30	0.22	20.7	-0.48%	29.4	0.5		
30	0.33	20.5	-1.44%	30.5	1.6		
30	0.44	20.1	-3.37%	32.1	3.2		
30	0.55	19.7	-5.29%	34.3	5.4		
30	0.66	19.2	-7.69%	37.1	8.2		
30	0.77	18.5	-11.06%	40.8	11.9		
30	0.88	17.1	-17.79%	45.3	16.4		
30	0.99	14.5	-30.29%	50.8	21.9		
30	1.10	10.4	-50.00%	57.8	28.9		