

承 认 书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	18/Mar/2025	REVISION NO.	A
PART NO.	CKNR252010A 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	
18/Mar/2025	18/Mar/2025	18/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



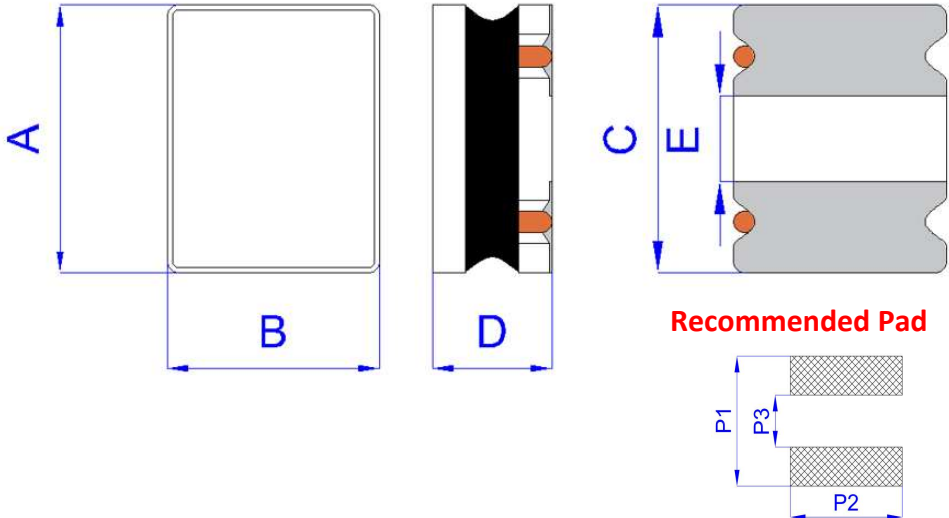
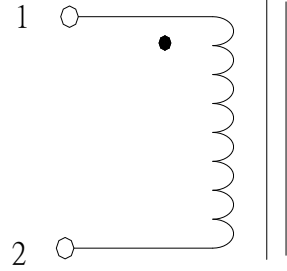
[illegible]



广东今凯电子科技有限公司
GUANG DONG CHK ELECTRONIC TECH Co., Ltd

CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 1/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR252010A Series	DATE	2025/3/18

1.SHAPE & DIMENSION

UNIT: mm						SCHEMATICS	
							
						MARKING COLOR	
						NA	
A	B	C	D	E	P1	P2	P3
2.5	2	2.5	1.0	0.8	2.9	2.4	0.8
0.3/-0.1	0.3/-0.1	0.3/-0.1	MAX	±0.25	Ref.	Ref.	Ref.

NR252010A的R24-1R0感值高度为1.05MAX

PART NUMBERING SYSTEM

CK NR 252012 A - 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
黄大燕	黄大燕	林树英



广东今凯电子科技有限公司
GUANG DONG CHK ELECTRONIC TECH Co., Ltd

CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 2/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR252010A Series	DATE	2025/3/18

2.SERIES SPECIFICATION

◆ CKNR252010A Series Specification:

Part Number	Inductance	Test Freq	DCR(mΩ)		Saturation Current (A)		Temp. Rise Current (A)	
	(μH)	(Hz)	Max	Typ	Max	Typ	Max	Typ
CKNR252010A-R47YC	0.47	1MHz/1V	62	47	3.60	4.00	3.60	4.40
CKNR252010A-R68YC	0.68		75	54	3.00	3.30	3.40	4.00
CKNR252010A-1R0YC	1.00		82	65	1.80	2.15	2.50	3.00
CKNR252010A-1R5YC	1.50		108	90	1.50	1.70	2.00	2.50
CKNR252010A-2R2MC	2.20		180	114	1.60	1.80	1.90	2.30
CKNR252010A-3R3MC	3.30		228	170	1.10	1.40	1.40	1.70
CKNR252010A-4R7MC	4.70		310	260	0.90	1.10	1.20	1.50
CKNR252010A-6R8MC	6.80		460	370	0.70	0.90	1.00	1.20
CKMR252010A-100MC	10.0		630	480	0.70	0.80	0.80	1.00

◆ TEST CONDITION

ITEM	TEST CONDITION	TEST INSTRUMENTS
L	1MHz/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 $\Delta T \leq 40^{\circ}\text{C}$. (Ta=25℃)

*For CKNR252010A Series size inductors, absolute maximum voltage: I 25 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※

APPROVED BY	CHECKED BY	DRAWN BY
黄大燕	黄大燕	林树英



广东今凯电子科技有限公司
GUANG DONG CHK ELECTRONIC TECH Co., Ltd

CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 3/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR252010A Series	DATE	2025/3/18

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	CH	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℃

APPROVED BY	CHECKED BY	DRAWN BY
黄大燕	黄大燕	林树英



广东今凯电子科技有限公司
GUANG DONG CHK ELECTRONIC TECH Co., Ltd

CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 4/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR252010A Series	DATE	2025/3/18

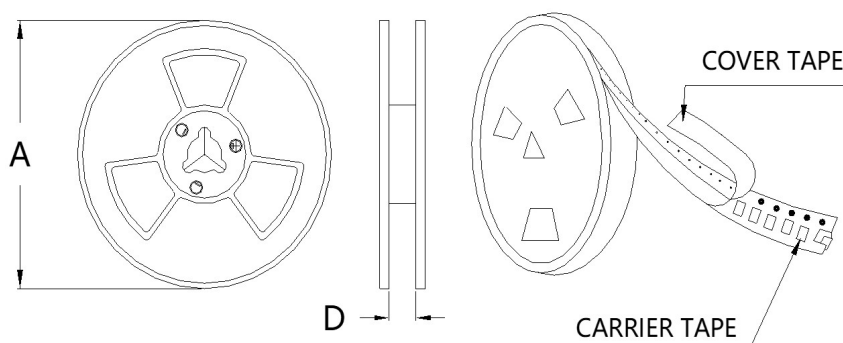
4.PACKAGING(unit: mm)

1.包装类型

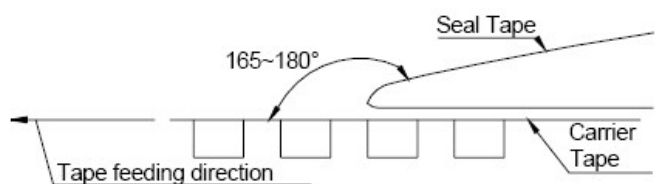
2.包装尺寸

13" 盘

7" 盘



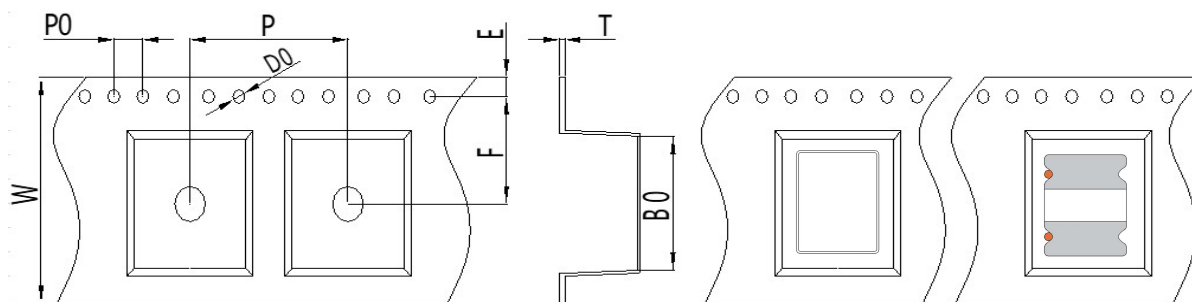
	13" 盘	7" 盘
A	$\Phi 330 \pm 2.0$	$\Phi 178 \pm 2.0$
D	8.4	



Peel-off strength:10~100gf.

Peel-off angle:165°-180°

Peel-off speed:300mm/min.



产品摆放方向顶视图

底视图

Item	W	B0	P	T	E	F	D0	P0		
DIM(mm)	8.0±0.3	2.95±0.1	4.0±0.1	0.3±0.05	1.75±0.1	3.5±0.1	1.5±0.1	4.0±0.1		

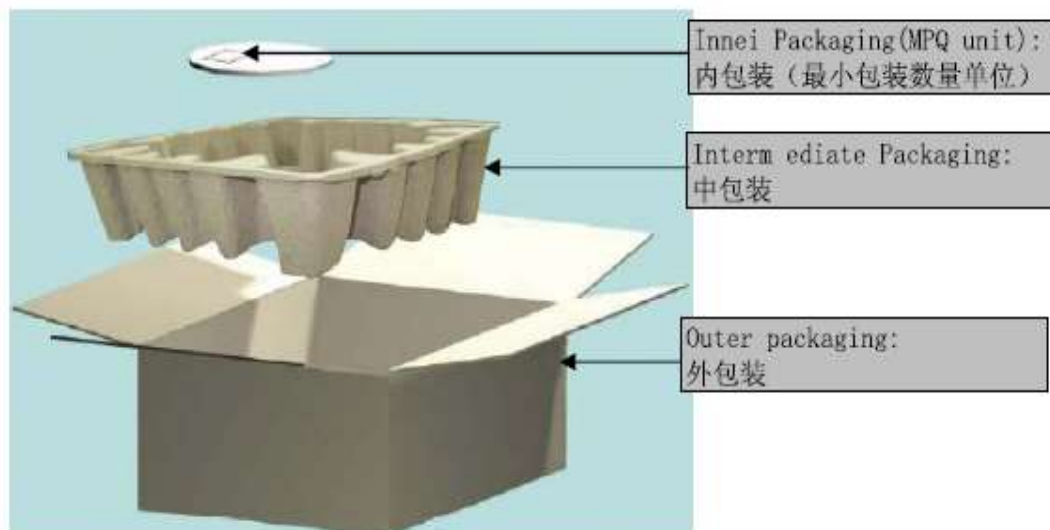
APPROVED BY	CHECKED BY	DRAFT
黄大燕	黄大燕	林树英



广东今凯电子科技有限公司
GUANG DONG CHK ELECTRONIC TECH Co., Ltd

CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 5/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR252010A Series	DATE	2025/3/18

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	2000	PCS
----	------	-----

外箱包装数量

每箱	40	卷,共	80000	PCS
----	----	-----	-------	-----

APPROVED BY	CHECKED BY	DRAFT
黄大燕	黄大燕	林树英



广东今凯电子科技有限公司
GUANG DONG CHK ELECTRONIC TECH Co., Ltd

CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 6/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR252010A Series	DATE	2025/3/18

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

APPROVED BY	CHECKED BY	DRAFT
黄大燕	黄大燕	林树英



广东今凯电子科技有限公司
GUANG DONG CHK ELECTRONIC TECH Co., Ltd

CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 7/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR252010A Series	DATE	2025/3/18

7. SOLDERING CONDITIONS

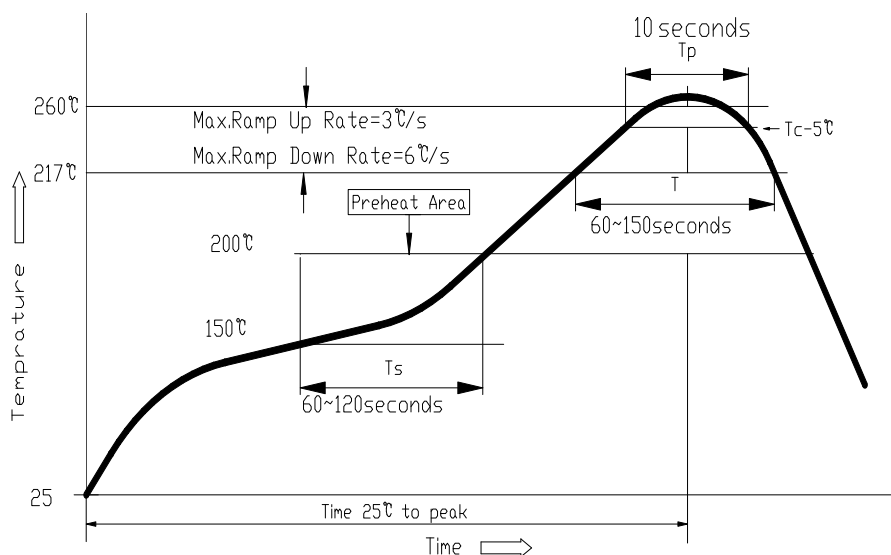
Applicable soldering process to the products is refl.

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



APPROVED BY	CHECKED BY	DRAFT
黄大燕	黄大燕	林树英



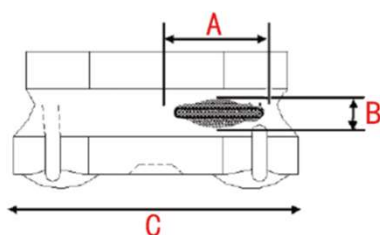
广东今凯电子科技有限公司
GUANG DONG CHK ELECTRONIC TECH Co., Ltd

CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 8/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR252010A Series	DATE	2025/3/18

8.Appearance of the standard

1.Void appearance tolerance limit

Size of voids occurring to coating resin is specified below.



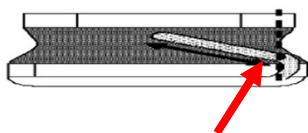
①Width direction(dimension A): Acceptable when $A \leq C/2$

Nonconforming when $B \geq C/2$

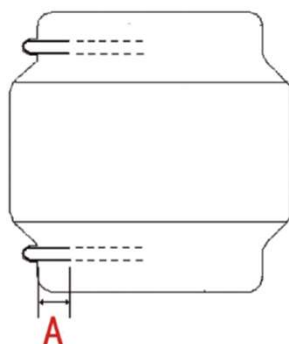
②Length direction(dimension B):Dimension b is not specified

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 $A > 0.8\text{mm}$

APPROVED BY

黄大燕

CHECKED BY

黄大燕

DRAFT

林树英

承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR252010-R47YC

PART NO. CKNR252010A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

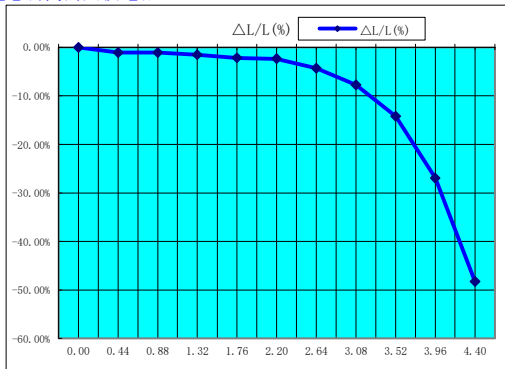
DATE 2025/3/18

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.	0.47 ± 30%	62 Max.	2.50 Max.	ΔL/L≤-30%	2.07 ΔT≤40℃ ℃				上限 2.8 下限 2.4	2.3 1.9	1.05 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	0.467	47.5	0.400	-14.35%	OK				2.65	2.21	0.95
2	0.445	47.8	0.427	-4.04%	OK				2.65	2.21	0.94
3	0.435	48.5	0.426	-2.07%	OK				2.66	2.19	0.95
4	0.449	44.7	0.431	-4.01%	OK				2.66	2.19	1.00
5	0.446	48.8	0.437	-2.02%	OK				2.66	2.24	1.02
6	0.462	43.7	0.434	-6.06%	OK				2.67	2.24	0.95
7	0.448	44.7	0.416	-7.14%	OK				2.66	2.22	0.98
8	0.439	45.1	0.411	-6.38%	OK				2.66	2.21	0.94
9	0.443	44.1	0.408	-7.90%	OK				2.68	2.20	1.01
10	0.457	47.8	0.400	-12.47%	OK				2.67	2.20	0.96
AVG.	0.449	46.27	0.419	-6.64%					2.662	2.211	0.97
R	0.032	5.1	0.037	12.33%					0.03	0.05	0.08

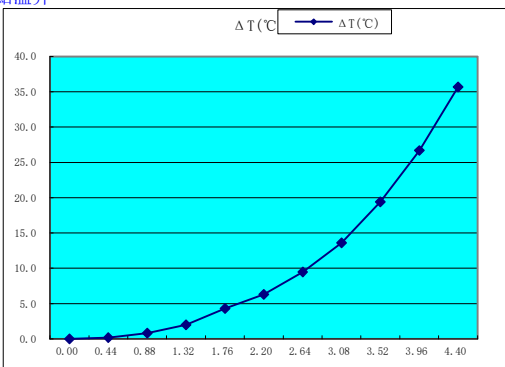
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	0.46	0.00%
1	0.44	0.46	-1.08%
1	0.88	0.46	-1.08%
1	1.32	0.46	-1.51%
1	1.76	0.45	-2.16%
1	2.20	0.45	-2.37%
1	2.64	0.44	-4.31%
1	3.08	0.43	-7.76%
1	3.52	0.40	-14.22%
1	3.96	0.34	-26.94%
1	4.40	0.24	-48.28%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	0.46	0.00%	27.3	0.0
30	0.44	0.47	2.41%	27.5	0.2
30	0.88	0.46	0.00%	28.1	0.8
30	1.32	0.45	-0.88%	29.3	2.0
30	1.76	0.45	-1.75%	31.6	4.3
30	2.20	0.44	-2.63%	33.6	6.3
30	2.64	0.44	-4.61%	36.8	9.5
30	3.08	0.42	-8.55%	40.9	13.6
30	3.52	0.39	-14.91%	46.7	19.4
30	3.96	0.34	-25.88%	54.0	26.7
30	4.40	0.26	-44.08%	63.0	35.7



承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR252010-R68YC

PART NO. CKNR252010A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

DATE 2025/3/18

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.	0.68 ± 30%	75 Max.	2.40 Max.	ΔL/L≤-30%	2.20 ΔT≤40℃ ℃				上限 2.8 下限 2.4	2.3 1.9	1.05 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	0.645	54.0	0.606	-6.05%	OK				2.65	2.10	0.99
2	0.647	57.3	0.598	-7.57%	OK				2.62	2.12	1.01
3	0.660	56.8	0.619	-6.21%	OK				2.67	2.11	0.98
4	0.642	54.2	0.615	-4.21%	OK				2.70	2.11	0.93
5	0.651	54.6	0.596	-8.45%	OK				2.68	2.14	0.96
6	0.628	55.2	0.596	-5.10%	OK				2.65	2.15	0.95
7	0.658	58.0	0.625	-5.02%	OK				2.68	2.11	0.98
8	0.633	53.9	0.592	-6.48%	OK				2.68	2.11	0.94
9	0.657	57.1	0.609	-7.31%	OK				2.70	2.12	0.99
10	0.647	55.8	0.611	-5.56%	OK				2.71	2.14	0.96
AVG.	0.647	55.69	0.6067	-6.19%					2.674	2.121	0.969
R	0.032	4.1	0.033	4.24%					0.09	0.05	0.08

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	0.638	0.00%
1	0.37	0.636	-0.31%
1	0.74	0.633	-0.78%
1	1.11	0.629	-1.41%
1	1.48	0.621	-2.66%
1	1.85	0.620	-2.82%
1	2.22	0.614	-3.76%
1	2.59	0.591	-7.37%
1	2.96	0.547	-14.26%
1	3.33	0.458	-28.21%
1	3.70	0.329	-48.43%

單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	0.631	0.00%	28.2	0.0
30	0.37	0.646	2.38%	28.4	0.2
30	0.74	0.647	2.54%	29.0	0.8
30	1.11	0.646	2.38%	29.9	1.7
30	1.48	0.641	1.58%	31.1	2.9
30	1.85	0.633	0.32%	33.1	4.9
30	2.22	0.625	-0.95%	35.5	7.3
30	2.59	0.596	-5.55%	38.5	10.3
30	2.96	0.544	-13.79%	42.0	13.8
30	3.33	0.452	-28.37%	47.0	18.8
30	3.70	0.327	-48.18%	53.0	24.8

承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR252010A-1R0YC

PART NO. CKNR252010A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

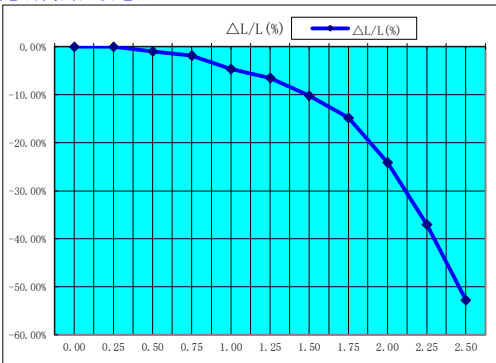
DATE 2025/3/18

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.	1.0 ± 30%	82 Max.	1.80 Max.	ΔL/L≤-30%	1.80 ΔT≤40℃ ℃				上限 2.8 下限 2.4	2.3 1.9	1.05 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	0.92	66.6	0.75	-18.48%	OK				2.67	2.21	0.97
2	0.99	66.6	0.76	-23.23%	OK				2.67	2.25	0.97
3	0.97	64.0	0.75	-22.68%	OK				2.66	2.21	0.94
4	0.97	66.1	0.76	-21.65%	OK				2.68	2.19	0.96
5	0.95	64.0	0.76	-20.00%	OK				2.67	2.18	0.97
6	0.95	65.8	0.74	-22.11%	OK				2.67	2.20	0.97
7	0.92	66.0	0.75	-18.48%	OK				2.66	2.20	0.94
8	0.97	66.5	0.72	-25.77%	OK				2.68	2.18	0.96
9	0.96	66.2	0.74	-22.92%	OK				2.66	2.20	0.97
10	0.95	65.8	0.75	-21.05%	OK				2.66	2.19	0.96
AVG.	0.955	65.76	0.748	-21.64%					2.668	2.201	0.961
R	0.07	2.6	0.04	7.29%					0.02	0.07	0.03

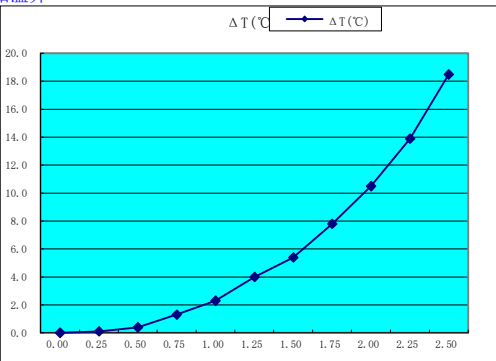
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Isat(A)	L(UH)	ΔL/L(%)
1	0.00	1.08	0.00%
1	0.25	1.08	0.00%
1	0.50	1.07	-0.93%
1	0.75	1.06	-1.85%
1	1.00	1.03	-4.63%
1	1.25	1.01	-6.48%
1	1.50	0.97	-10.19%
1	1.75	0.92	-14.81%
1	2.00	0.82	-24.07%
1	2.25	0.68	-37.04%
1	2.50	0.51	-52.78%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	1.07	0.00%	28.7	0.0
30	0.25	1.06	-0.93%	28.8	0.1
30	0.50	1.05	-1.87%	29.1	0.4
30	0.75	1.03	-3.74%	30.0	1.3
30	1.00	1.02	-4.67%	31.0	2.3
30	1.25	1.00	-6.54%	32.7	4.0
30	1.50	0.97	-9.35%	34.1	5.4
30	1.75	0.90	-15.89%	36.5	7.8
30	2.00	0.79	-26.17%	39.2	10.5
30	2.25	0.59	-44.86%	42.6	13.9
30	2.50	0.36	-66.36%	47.2	18.5



承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR252010A-1R5YC

PART NO. CKNR252010A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

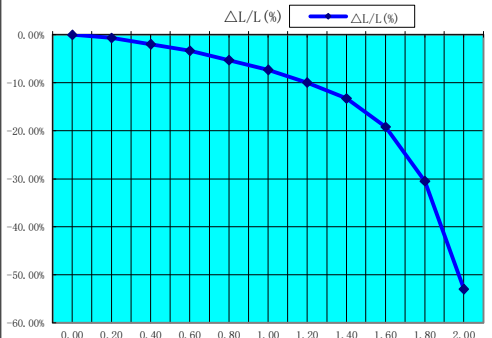
DATE 2025/3/18

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION								DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	△L/L	Irms A				長 mm	寬 mm	高 mm
SPEC.	1.5 ± 30%	108 Max.	1.50 Max.	△L/L≤-30%	1.50 △T≤40℃ ℃				上限 2.8 下限 2.4	2.3 1.9	1.00 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	1.45	90.9	1.19	-17.93%	OK				2.62	2.20	0.95
2	1.50	90.2	1.20	-20.00%	OK				2.70	2.18	0.92
3	1.56	89.9	1.25	-19.87%	OK				2.68	2.19	0.96
4	1.53	90.0	1.23	-19.61%	OK				2.71	2.18	0.96
5	1.47	90.2	1.20	-18.37%	OK				2.72	2.23	0.95
6	1.50	90.5	1.21	-19.33%	OK				2.71	2.21	0.94
7	1.52	90.6	1.25	-17.76%	OK				2.65	2.24	0.96
8	1.48	91.0	1.19	-19.59%	OK				2.68	2.21	0.95
9	1.49	90.5	1.20	-19.46%	OK				2.68	2.20	0.96
10	1.54	90.6	1.24	-19.48%	OK				2.69	2.21	0.93
AVG.	1.504	90.44	1.216	-19.14%					2.684	2.205	0.948
R	0.11	1.1	0.06	2.24%					0.1	0.06	0.04

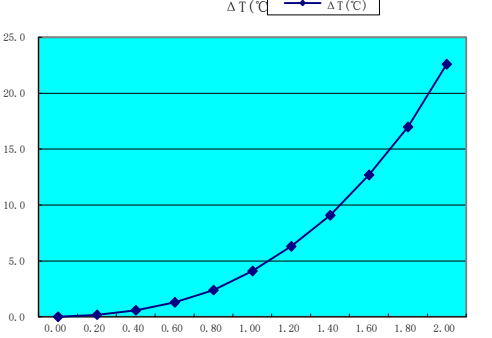
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	1.51	0.00%
1	0.20	1.50	-0.66%
1	0.40	1.48	-1.99%
1	0.60	1.46	-3.31%
1	0.80	1.43	-5.30%
1	1.00	1.40	-7.28%
1	1.20	1.36	-9.93%
1	1.40	1.31	-13.25%
1	1.60	1.22	-19.21%
1	1.80	1.05	-30.46%
1	2.00	0.71	-52.98%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	1.43	0.00%	29.4	0.0
30	0.20	1.42	-0.70%	29.6	0.2
30	0.40	1.41	-1.40%	30.0	0.6
30	0.60	1.39	-2.80%	30.7	1.3
30	0.80	1.38	-3.50%	31.8	2.4
30	1.00	1.35	-5.59%	33.5	4.1
30	1.20	1.32	-7.69%	35.7	6.3
30	1.40	1.27	-11.19%	38.5	9.1
30	1.60	1.18	-17.48%	42.1	12.7
30	1.80	1.03	-27.97%	46.4	17.0
30	2.00	0.75	-47.55%	52.0	22.6



承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR252010A-2R2MC

PART NO. CKNR252010A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

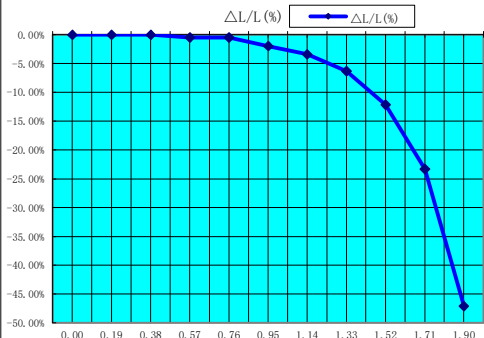
DATE 2025/3/18

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%	180 Max.	1.20 Max.	ΔL/L≤-30%	1.20 ΔT≤40℃ ℃				上限 2.8 下限 2.4	2.3 1.9	1.00 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	2.03	114	1.80	-11.33%	OK				2.67	2.20	0.97
2	2.10	112	1.80	-14.29%	OK				2.66	2.21	0.94
3	2.10	119	1.79	-14.76%	OK				2.67	2.21	0.97
4	2.08	114	1.81	-12.98%	OK				2.66	2.18	0.94
5	2.12	111	1.84	-13.21%	OK				2.68	2.17	0.96
6	2.05	117	1.80	-12.20%	OK				2.66	2.16	0.97
7	2.05	112	1.79	-12.68%	OK				2.66	2.16	0.96
8	2.08	112	1.80	-13.46%	OK				2.66	2.20	0.97
9	2.03	116	1.82	-10.34%	OK				2.66	2.16	0.96
10	2.05	112	1.82	-11.22%	OK				2.65	2.19	0.96
AVG.	2.069	113.9	1.807	-12.65%					2.663	2.184	0.96
R	0.09	8	0.05	4.42%					0.03	0.05	0.03

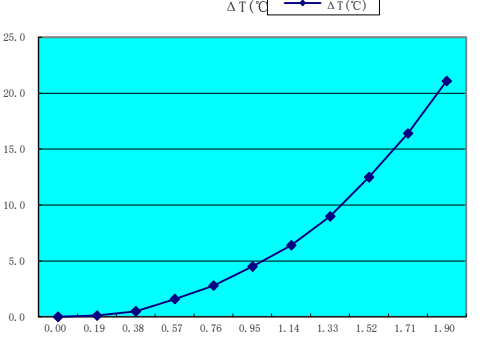
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	2.06	0.00%
1	0.19	2.06	0.00%
1	0.38	2.06	0.00%
1	0.57	2.05	-0.49%
1	0.76	2.05	-0.49%
1	0.95	2.02	-1.94%
1	1.14	1.99	-3.40%
1	1.33	1.93	-6.31%
1	1.52	1.81	-12.14%
1	1.71	1.58	-23.30%
1	1.90	1.09	-47.09%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	2.08	0.00%	27.6	0.0
30	0.19	2.00	-3.85%	27.7	0.1
30	0.38	2.07	-0.48%	28.1	0.5
30	0.57	2.06	-0.96%	29.2	1.6
30	0.76	2.04	-1.92%	30.4	2.8
30	0.95	2.00	-3.85%	32.1	4.5
30	1.14	1.95	-6.25%	34.0	6.4
30	1.33	1.86	-10.58%	36.6	9.0
30	1.52	1.70	-18.27%	40.1	12.5
30	1.71	1.40	-32.69%	44.0	16.4
30	1.90	0.95	-54.33%	48.7	21.1



承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR252010A-3R3MC

PART NO. CKNR252010A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

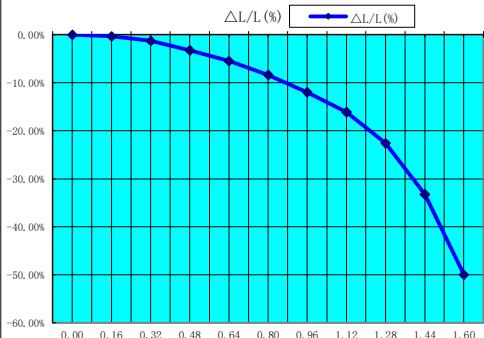
DATE 2025/3/18

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION								DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	△L/L	Irms A				長 mm	寬 mm	高 mm
SPEC.	3.3 ± 20%	228 Max.	1.10 Max.	△L/L≤-30%	1.10 △T≤40℃ ℃				上限 2.8 下限 2.4	2.3 1.9	1.00 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	3.12	170	2.65	-15.06%	OK				2.67	2.21	0.97
2	3.01	173	2.64	-12.29%	OK				2.66	2.16	0.94
3	3.11	174	2.62	-15.76%	OK				2.67	2.18	0.97
4	3.11	172	2.71	-12.86%	OK				2.66	2.19	0.94
5	3.10	174	2.60	-16.13%	OK				2.68	2.21	0.96
6	3.00	174	2.58	-14.00%	OK				2.66	2.22	0.97
7	3.11	175	2.62	-15.76%	OK				2.66	2.21	0.96
8	3.06	174	2.61	-14.71%	OK				2.66	2.21	0.97
9	3.08	172	2.60	-15.58%	OK				2.66	2.25	0.96
10	3.09	171	2.62	-15.21%	OK				2.65	2.21	0.98
AVG.	3.079	172.9	2.625	-14.74%					2.663	2.205	0.962
R	0.12	5	0.13	3.84%					0.03	0.09	0.04

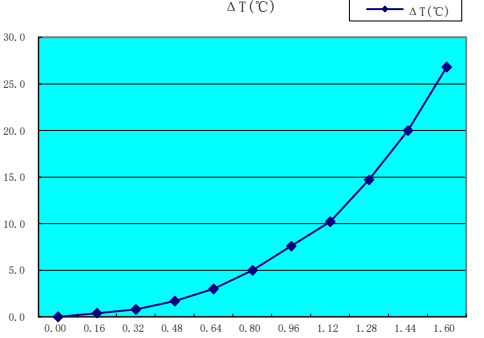
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	3.10	0.00%
1	0.16	3.09	-0.32%
1	0.32	3.06	-1.29%
1	0.48	3.00	-3.23%
1	0.64	2.93	-5.48%
1	0.80	2.84	-8.39%
1	0.96	2.73	-11.94%
1	1.12	2.60	-16.13%
1	1.28	2.40	-22.58%
1	1.44	2.07	-33.23%
1	1.60	1.55	-50.00%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	3.04	0.00%	29.0	0.0
30	0.16	3.00	-1.32%	29.4	0.4
30	0.32	3.00	-1.32%	29.8	0.8
30	0.48	2.96	-2.63%	30.7	1.7
30	0.64	2.89	-4.93%	32.0	3.0
30	0.80	2.87	-5.59%	34.0	5.0
30	0.96	2.69	-11.51%	36.6	7.6
30	1.12	2.51	-17.43%	39.2	10.2
30	1.28	2.30	-24.34%	43.7	14.7
30	1.44	1.89	-37.83%	49.0	20.0
30	1.60	1.28	-57.89%	55.8	26.8



承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR252010A-4R7MC

PART NO. CKNR252010A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

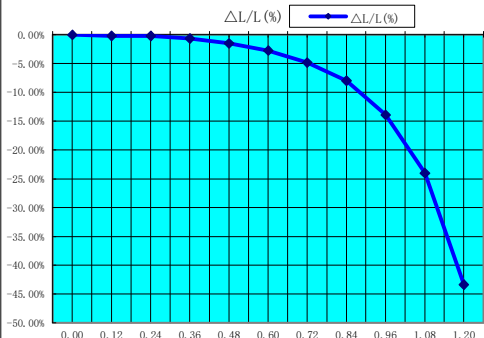
DATE 2025/3/18

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%	310 Max.	0.90 Max.	ΔL/L≤-30%	0.90 ΔT≤40℃ ℃				上限 2.8 下限 2.4	2.3 1.9	1.00 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	4.74	257	4.15	-12.4%	OK				2.67	2.17	0.97
2	4.82	253	4.25	-11.8%	OK				2.66	2.16	0.94
3	4.58	249	4.02	-12.2%	OK				2.67	2.17	0.97
4	4.74	258	4.12	-13.1%	OK				2.66	2.21	0.94
5	4.74	258	4.15	-12.4%	OK				2.68	2.21	0.96
6	4.59	249	4.05	-11.8%	OK				2.66	2.16	0.97
7	4.60	240	4.01	-12.8%	OK				2.66	2.16	0.96
8	4.70	243	4.12	-12.3%	OK				2.66	2.19	0.97
9	4.65	250	4.10	-11.8%	OK				2.66	2.16	0.96
10	4.70	258	4.12	-12.3%	OK				2.65	2.19	0.97
AVG.	4.686	251.5	4.109	-12.31%					2.663	2.178	0.961
R	0.24	18	0.24	1.32%					0.03	0.05	0.03

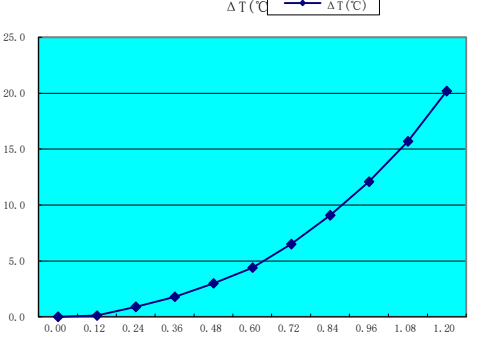
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	4.75	0.00%
1	0.12	4.74	-0.21%
1	0.24	4.74	-0.21%
1	0.36	4.72	-0.63%
1	0.48	4.68	-1.47%
1	0.60	4.62	-2.74%
1	0.72	4.52	-4.84%
1	0.84	4.37	-8.00%
1	0.96	4.09	-13.89%
1	1.08	3.61	-24.00%
1	1.20	2.69	-43.37%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	4.68	0.00%	27.9	0.0
30	0.12	4.68	0.00%	28.0	0.1
30	0.24	4.66	-0.43%	28.8	0.9
30	0.36	4.63	-1.07%	29.7	1.8
30	0.48	4.57	-2.29%	30.9	3.0
30	0.60	4.50	-3.85%	32.3	4.4
30	0.72	4.40	-5.98%	34.4	6.5
30	0.84	4.23	-9.62%	37.0	9.1
30	0.96	3.92	-16.24%	40.0	12.1
30	1.08	3.36	-28.21%	43.6	15.7
30	1.20	2.40	-48.72%	48.1	20.2



承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR252010A-6R8MC

PART NO. CKNR252010A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

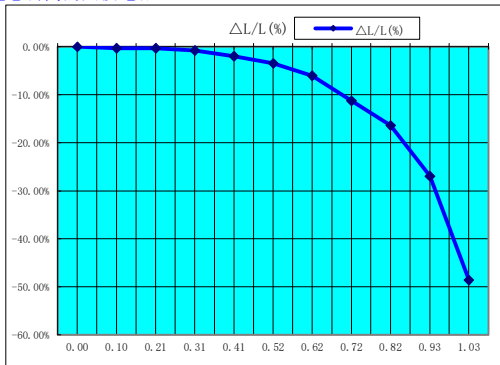
DATE 2025/3/18

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%	460 Max.	0.70 Max.	ΔL/L≤-30%	0.69 ΔT≤40℃ ℃				上限 2.8 下限 2.4	2.3 1.9	1.00 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	6.62	381	5.68	-14.20%	OK				2.67	2.21	0.97
2	6.68	374	5.80	-13.17%	OK				2.66	2.21	0.94
3	6.67	366	5.86	-12.14%	OK				2.67	2.20	0.97
4	6.63	385	5.80	-12.52%	OK				2.66	2.19	0.94
5	6.70	382	5.78	-13.73%	OK				2.68	2.18	0.96
6	6.63	387	5.65	-14.78%	OK				2.66	2.19	0.97
7	6.61	392	5.62	-14.98%	OK				2.66	2.16	0.96
8	6.62	388	5.62	-15.11%	OK				2.66	2.16	0.97
9	6.63	388	5.62	-15.23%	OK				2.66	2.21	0.96
10	6.65	382	5.61	-15.64%	OK				2.65	2.19	0.98
AVG.	6.644	382.5	5.704	-14.15%					2.663	2.19	0.962
R	0.09	26	0.25	3.50%					0.03	0.05	0.04

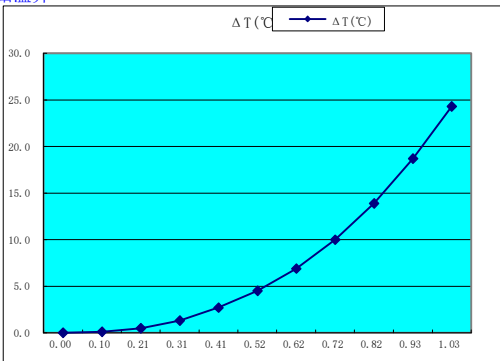
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	6.65	0.00%
1	0.10	6.63	-0.30%
1	0.21	6.63	-0.30%
1	0.31	6.60	-0.75%
1	0.41	6.52	-1.95%
1	0.52	6.42	-3.46%
1	0.62	6.25	-6.02%
1	0.72	5.90	-11.28%
1	0.82	5.56	-16.39%
1	0.93	4.86	-26.92%
1	1.03	3.42	-48.57%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	6.45	0.00%	28.8	0.0
30	0.10	6.45	0.00%	28.9	0.1
30	0.21	6.43	-0.31%	29.3	0.5
30	0.31	6.38	-1.09%	30.1	1.3
30	0.41	6.29	-2.48%	31.5	2.7
30	0.52	6.17	-4.34%	33.3	4.5
30	0.62	5.98	-7.29%	35.7	6.9
30	0.72	5.68	-11.94%	38.8	10.0
30	0.82	5.19	-19.53%	42.7	13.9
30	0.93	4.31	-33.18%	47.5	18.7
30	1.03	2.74	-57.52%	53.1	24.3



承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR252010A-100MC

PART NO. CKNR252010A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

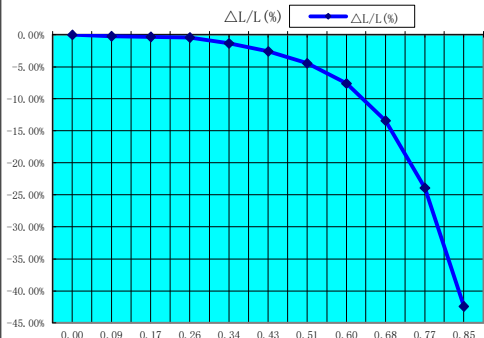
DATE 2025/3/18

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION								DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	△L/L	Irms A				長 mm	寬 mm	高 mm
SPEC.	10.0 ± 20%	630 Max.	0.54 Max.	△L/L≤-30%	0.50 △T≤40℃ ℃				上限 2.8 下限 2.4	2.3 1.9	1.00 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	9.55	455	8.50	-10.99%	OK				2.64	2.20	0.93
2	10.2	472	8.58	-15.85%	OK				2.65	2.16	0.95
3	9.59	466	8.46	-11.78%	OK				2.64	2.17	0.94
4	9.68	453	8.51	-12.09%	OK				2.64	2.20	0.93
5	9.68	460	8.52	-11.98%	OK				2.65	2.16	0.95
6	9.59	460	8.51	-11.26%	OK				2.64	2.17	0.94
7	9.62	456	8.25	-14.24%	OK				2.66	2.19	0.96
8	9.56	460	8.35	-12.66%	OK				2.67	2.18	0.94
9	9.85	471	8.15	-17.26%	OK				2.66	2.19	0.96
10	9.95	462	8.54	-14.17%	OK				2.67	2.18	0.94
AVG.	9.727	461.5	8.4373	-13.23%					2.652	2.18	0.944
R	0.65	19	0.433	6.26%					0.03	0.04	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	9.62	0.00%
1	0.09	9.60	-0.21%
1	0.17	9.59	-0.31%
1	0.26	9.58	-0.42%
1	0.34	9.49	-1.35%
1	0.43	9.37	-2.60%
1	0.51	9.19	-4.47%
1	0.60	8.89	-7.59%
1	0.68	8.33	-13.41%
1	0.77	7.32	-23.91%
1	0.85	5.54	-42.41%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	9.26	0.00%	26.7	0.0
30	0.85	9.26	0.00%	26.8	0.1
30	1.70	9.21	-0.54%	27.2	0.5
30	2.55	9.19	-0.76%	28.4	1.7
30	3.40	9.09	-1.84%	29.7	3.0
30	4.25	8.94	-3.46%	31.3	4.6
30	5.10	8.73	-5.72%	33.5	6.8
30	5.95	8.33	-10.04%	36.1	9.4
30	6.80	7.58	-18.14%	39.4	12.7
30	7.65	6.25	-32.51%	43.5	16.8
30	8.50	4.18	-54.86%	48.2	21.5

