

承 认 书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	18/Mar/2025	REVISION NO.	A
PART NO.	CKNR252012A Series		
DRAWN NO.			
DESCRIPTION.	SMD POWER INDUCTOR		
Customer's Signature			
Approved by	Checked by	Drawn by	
黄大燕	黄大燕	梁智坤	
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



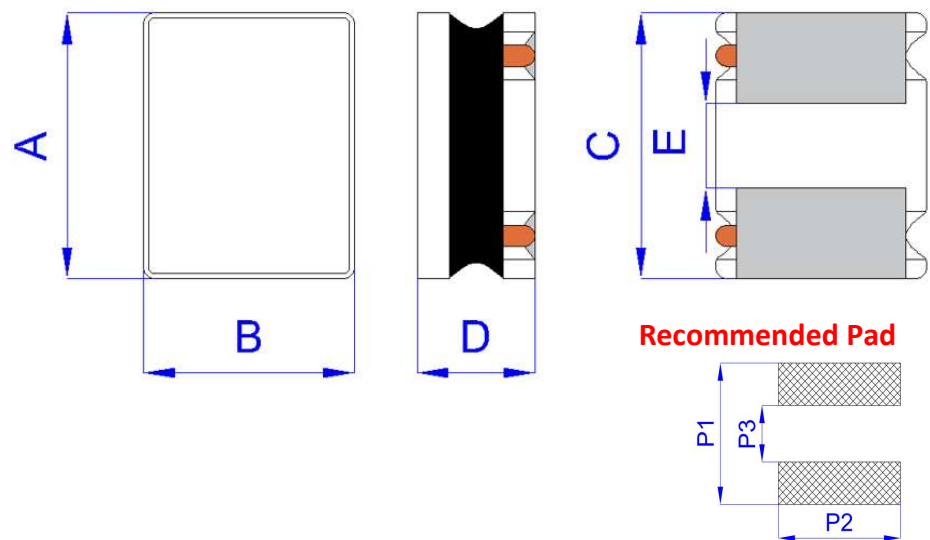
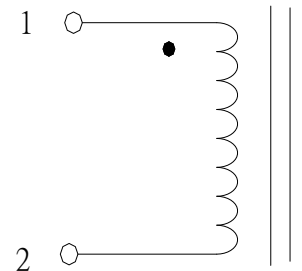
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PART NO.	CKNR252012A Series	DATE	2025/3/18

1.SHAPE & DIMENSION

UNIT: mm						SCHEMATICS	
							
						MARKING COLOR	
						NA	

A	B	C	D	E	P1	P2	P3
2.5	2	2.5	1.25	0.8	2.9	2.4	0.8
0.3/-0.1	0.35/-0.05	0.3/-0.1	MAX	±0.2	Ref.	Ref.	Ref.

PART NUMBERING SYSTEM

CK NR 252012 A - 2R2 M C
1 2 3 4 5 6 7

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

APPROVED BY	CHECKED BY	DRAFT BY
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2.SERIES SPECIFICATION

◆ CKNR252012A Series Specification:

Part Number	Inductance	Test Freq	DCR(mΩ)		Saturation Current (A)		Temp. Rise Current (A)	
	(μH)	(Hz)	Max	Typ	Max	Typ	Max	Typ
CKNR252012A-R24YC	0.24	100KHz/1V	36	30	5.40	6.00	3.00	3.72
CKNR252012A-R47YC	0.47	100KHz/1V	61	46	3.82	4.27	2.15	2.34
CKNR252012A-R68YC	0.68	100KHz/1V	74	51	3.28	3.68	1.96	2.13
CKNR252012A-1R0MC	1.00	100KHz/1V	90	73	2.59	2.90	1.93	2.10
CKNR252012A-1R5MC	1.50	100KHz/1V	147	113	2.24	2.51	1.40	1.53
CKNR252012A-2R2MC	2.20	100KHz/1V	216	166	1.85	2.07	1.15	1.25
CKNR252012A-3R3MC	3.30	100KHz/1V	264	203	1.61	1.80	1.04	1.13
CKNR252012A-4R7MC	4.70	100KHz/1V	348	273	1.12	1.25	0.84	0.92
CKNR252012A-6R8MC	6.80	100KHz/1V	581	447	0.98	1.09	0.69	0.75
CKNR252012A-100MC	10.0	100KHz/1V	690	531	0.79	0.88	0.62	0.68
CKNR252012A-150MC	15.0	100KHz/1V	1000	830	0.65	0.75	0.57	0.63
CKNR252012A-220MC	22.0	100KHz/1V	1100	890	0.40	0.55	0.50	0.60
CKNR252012LDES-2R2MC	2.20	100KHz/1V	96	93.5	1.80	2.10	1.80	2.10

◆ 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 CKNR252012A 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※

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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	DJ	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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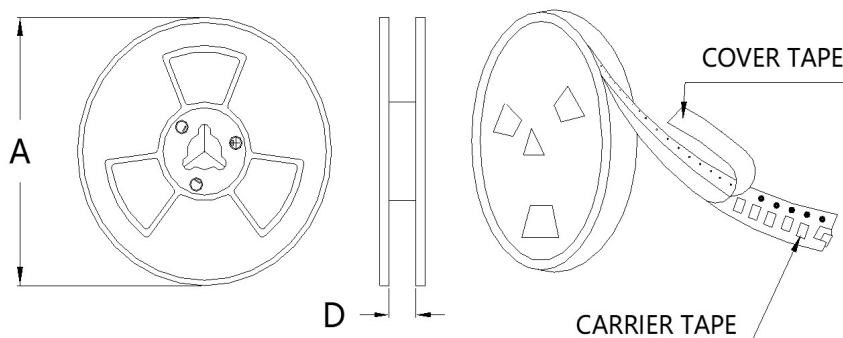
4.PACKAGING(unit: mm)

1.包装类型

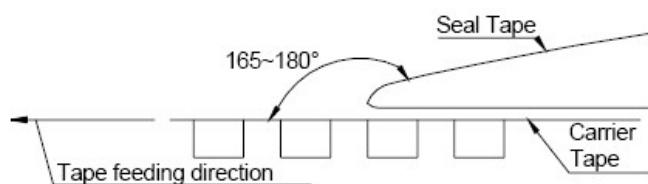
2.包装尺寸

13" 盘

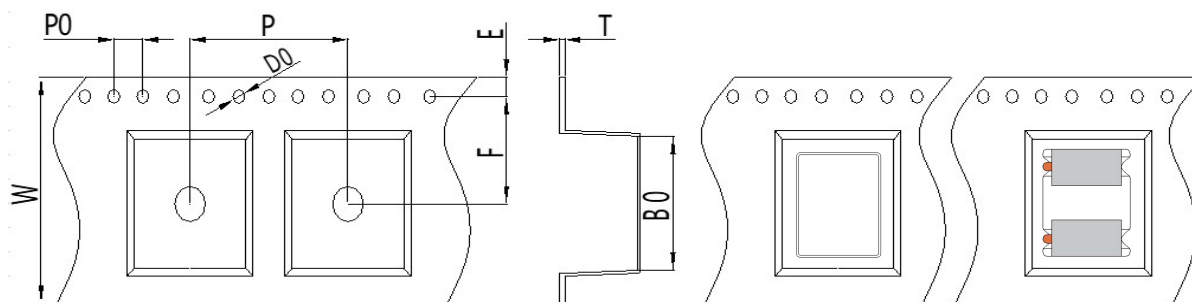
7" 盘



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

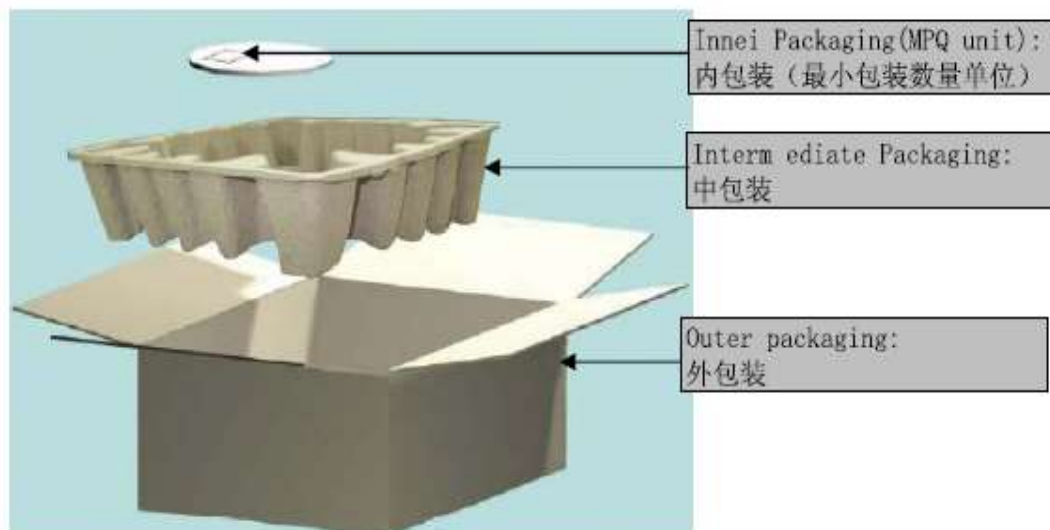
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5. CARTON



- 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
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外箱包装数量

每箱	40	卷,共	80000	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

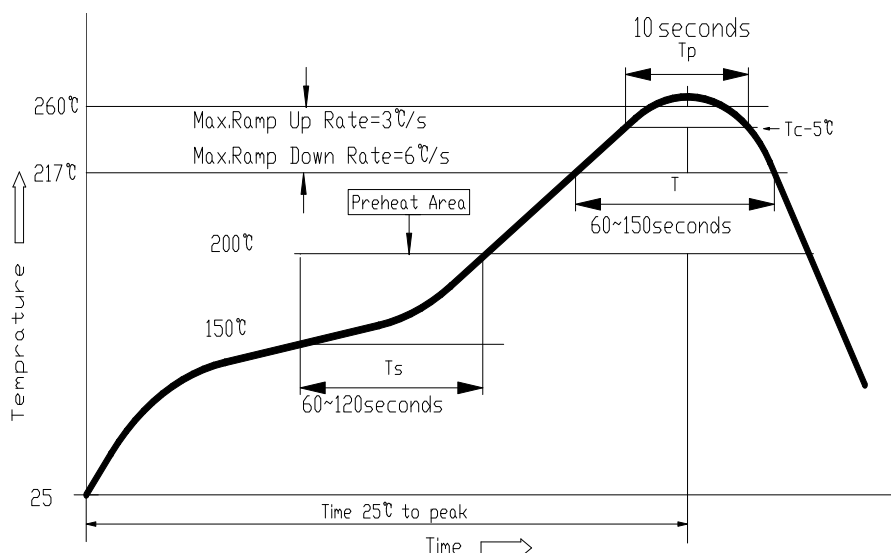
Applicable soldering process to the products is refl.

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°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℃;
- ② Soldering iron power output:≤30W;
- ③ Diameter of soldering iron end:≤1.0mm;
- ④Soldering time:<3 s



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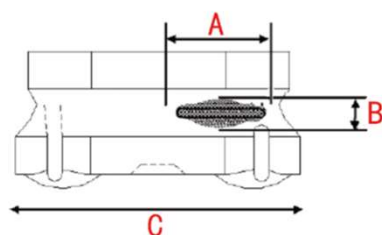


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8.Appearance of the standard

1.Void appearance tolerance limit



Size of voids occurring to coating resin is specified below.

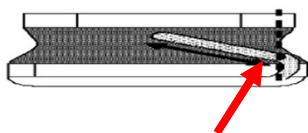
①Width direction(dimension A): Acceptable when $A \leq C/2$

Nonconforming when $B \geq C/2$

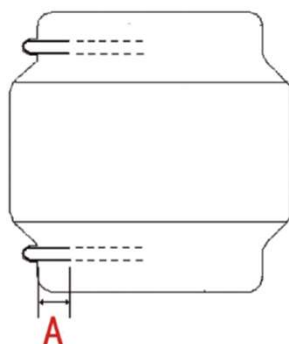
②Length direction(dimension B):Dimension b is not specified

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: CKNR252012A-R24YC

PART NO. CKNR252012A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25°C

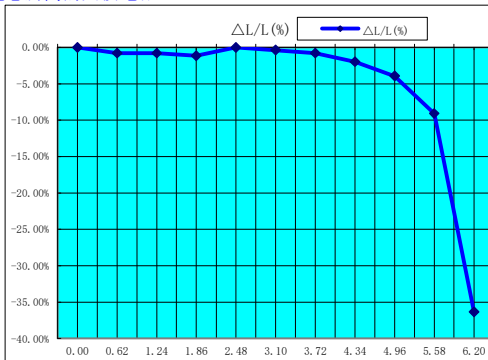
DATE 2025/3/18

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.	0.24 ± 30%	36 Max.	5.40 Max.	ΔL/L≤-30%	3.00 ΔT≤40℃ ℃			上限 下限	2.8 2.4	2.3 1.9	1.25 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	0.255	29.5	0.238	-6.67%	OK				0.53	2.17	1.17
2	0.255	29.9	0.236	-7.45%	OK				2.49	2.21	1.20
3	0.262	30.8	0.237	-9.54%	OK				2.50	2.24	1.18
4	0.264	29.6	0.249	-5.68%	OK				2.50	2.20	1.19
5	0.247	29.0	0.217	-12.15%	OK				2.49	2.20	1.20
6	0.251	29.3	0.234	-6.77%	OK				0.52	2.17	1.17
7	0.247	29.4	0.230	-6.88%	OK				2.49	2.21	1.20
8	0.246	29.3	0.233	-5.28%	OK				2.50	2.24	1.18
9	0.249	30.2	0.234	-6.02%	OK				2.54	2.20	1.19
10	0.251	29.9	0.242	-3.59%	OK				2.49	2.20	1.20
AVG.	0.253	29.69	0.235	-7.00%					2.105	2.204	1.188
R	0.018	1.8	0.032	8.56%					2.02	0.07	0.03

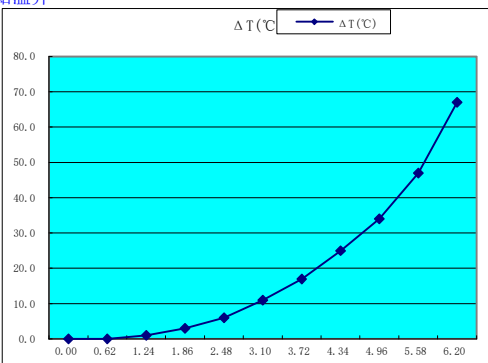
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	0.253	0.00%
1	0.62	0.251	-0.79%
1	1.24	0.251	-0.79%
1	1.86	0.250	-1.19%
1	2.48	0.253	0.00%
1	3.10	0.252	-0.40%
1	3.72	0.251	-0.79%
1	4.34	0.248	-1.98%
1	4.96	0.243	-3.95%
1	5.58	0.230	-9.09%
1	6.20	0.161	-36.36%



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TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(°C)	ΔT(°C)
30	0.00	0.250	0.00%	33.0	0.0
30	0.62	0.251	0.40%	33.0	0.0
30	1.24	0.251	0.40%	34.0	1.0
30	1.86	0.251	0.40%	36.0	3.0
30	2.48	0.257	2.80%	39.0	6.0
30	3.10	0.257	2.80%	44.0	11.0
30	3.72	0.256	2.40%	50.0	17.0
30	4.34	0.253	1.20%	58.0	25.0
30	4.96	0.244	-2.40%	67.0	34.0
30	5.58	0.201	-19.60%	80.0	47.0
30	6.20	0.070	-72.00%	100	67.0



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TEST TEMP. 20~25°C

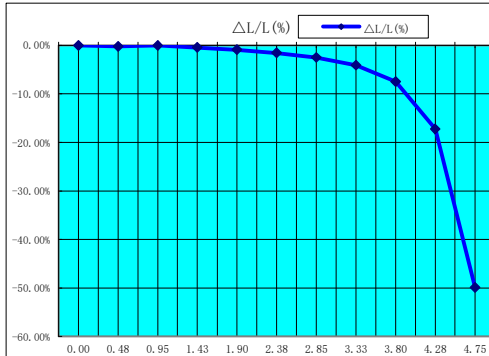
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TEST DATA FOR PREPRODUCTION SAMPLE

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%	61 Max.	3.85 Max.	ΔL/L≤-30%	2.15 ΔT≤40°C °C			上限 2.8 下限 2.4	2.3 1.9	1.25 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	0.441	43.7	0.416	-5.67%	OK			2.58	2.18	1.16
2	0.492	46.6	0.445	-9.55%	OK			2.51	2.17	1.18
3	0.503	42.9	0.443	-11.93%	OK			2.54	2.16	1.17
4	0.490	42.1	0.450	-8.16%	OK			2.57	2.18	1.18
5	0.484	43.2	0.438	-9.50%	OK			2.56	2.17	1.17
6	0.505	44.3	0.457	-9.50%	OK			2.58	2.18	1.16
7	0.503	42.8	0.456	-9.34%	OK			2.51	2.17	1.18
8	0.476	43.0	0.439	-7.77%	OK			2.54	2.16	1.17
9	0.489	42.4	0.442	-9.61%	OK			2.57	2.18	1.18
10	0.479	42.7	0.429	-10.44%	OK			2.56	2.17	1.17
AVG.	0.486	43.37	0.4415	-9.15%				2.552	2.172	1.172
R	0.064	4.5	0.041	6.26%				0.07	0.02	0.02

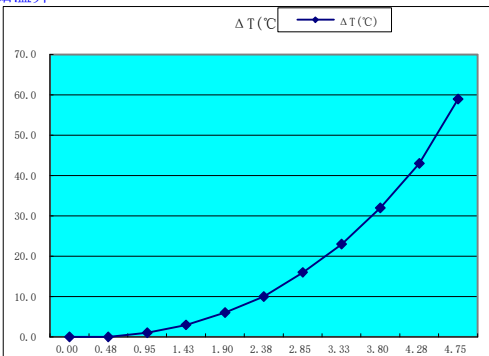
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	0.441	0.00%
1	0.48	0.440	-0.23%
1	0.95	0.441	0.00%
1	1.43	0.439	-0.45%
1	1.90	0.437	-0.91%
1	2.38	0.434	-1.59%
1	2.85	0.430	-2.49%
1	3.33	0.423	-4.08%
1	3.80	0.408	-7.48%
1	4.28	0.365	-17.23%
1	4.75	0.221	-49.89%



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TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(°C)	ΔT(°C)
30	0.00	0.441	0.00%	24.0	0.0
30	0.48	0.441	0.00%	24.0	0.0
30	0.95	0.440	-0.23%	25.0	1.0
30	1.43	0.437	-0.91%	27.0	3.0
30	1.90	0.434	-1.59%	30.0	6.0
30	2.38	0.433	-1.81%	34.0	10.0
30	2.85	0.427	-3.17%	40.0	16.0
30	3.33	0.419	-4.99%	47.0	23.0
30	3.80	0.399	-9.52%	56.0	32.0
30	4.28	0.346	-21.54%	67.0	43.0
30	4.75	0.170	-61.45%	83.0	59.0



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CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR252012A-R68YC

PART NO. CKNR252012A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25°C

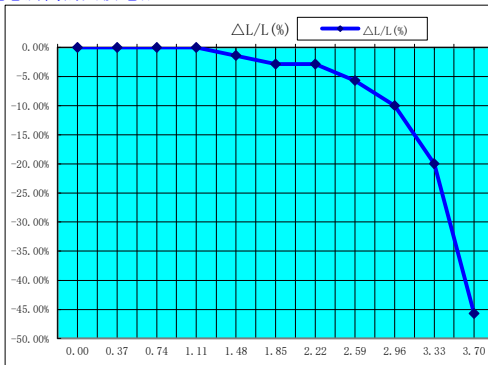
DATE 2025/3/18

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%	74 Max.	3.28 Max.	ΔL/L≤-30%	1.96 ΔT≤40℃ ℃			上限 下限	2.8 2.4	2.3 1.9	1.25 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	0.68	41.8	0.59	-13.24%	OK				2.66	2.19	1.17
2	0.72	40.7	0.58	-19.44%	OK				2.65	2.19	1.17
3	0.70	42.2	0.58	-17.14%	OK				2.63	2.19	1.16
4	0.73	41.3	0.59	-19.18%	OK				2.66	2.20	1.18
5	0.68	41.2	0.58	-14.71%	OK				2.65	2.21	1.17
6	0.72	41.5	0.58	-19.44%	OK				2.64	2.21	1.16
7	0.70	42.0	0.58	-17.14%	OK				2.68	2.25	1.15
8	0.72	41.5	0.58	-19.44%	OK				2.65	2.22	1.17
9	0.70	41.2	0.58	-17.14%	OK				2.65	2.21	1.16
10	0.69	40.9	0.58	-15.94%	OK				2.64	2.19	1.15
AVG.	0.704	41.43	0.582	-17.28%					2.651	2.206	1.164
R	0.05	1.5	0.01	6.21%					0.05	0.06	0.03

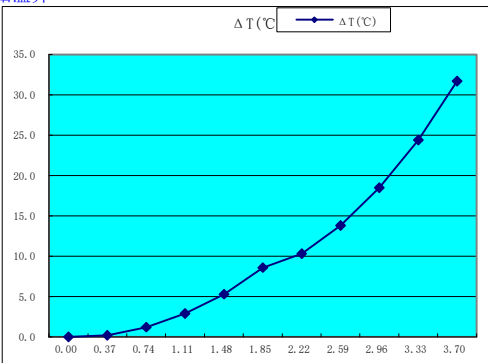
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	0.70	0.00%
1	0.37	0.70	0.00%
1	0.74	0.70	0.00%
1	1.11	0.70	0.00%
1	1.48	0.69	-1.43%
1	1.85	0.68	-2.86%
1	2.22	0.68	-2.86%
1	2.59	0.66	-5.71%
1	2.96	0.63	-10.00%
1	3.33	0.56	-20.00%
1	3.70	0.38	-45.71%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(°C)	ΔT(°C)
30	0.00	0.67	0.00%	30.0	0.0
30	0.37	0.66	-1.49%	30.2	0.2
30	0.74	0.66	-1.49%	31.2	1.2
30	1.11	0.66	-1.49%	32.9	2.9
30	1.48	0.65	-2.99%	35.3	5.3
30	1.85	0.65	-2.99%	38.6	8.6
30	2.22	0.65	-2.99%	40.3	10.3
30	2.59	0.64	-4.48%	43.8	13.8
30	2.96	0.61	-8.96%	48.5	18.5
30	3.33	0.55	-17.91%	54.4	24.4
30	3.70	0.36	-46.27%	61.7	31.7



承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR252012A-1R0MC

PART NO. CKNR252012A 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.	1.0 ± 20%	90 Max.	2.59 Max.	△L/L≤-30%	1.93 △T≤40℃ ℃				上限 下限	2.8 2.4	2.3 1.9 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	0.92	41.8	0.75	-18.48%	OK				2.67	2.17	1.15
2	0.88	40.7	0.74	-15.91%	OK				2.67	2.17	1.15
3	0.96	42.2	0.78	-18.75%	OK				2.66	2.21	1.15
4	0.93	41.3	0.75	-19.35%	OK				2.68	2.20	1.14
5	0.96	41.2	0.76	-20.83%	OK				2.67	2.20	1.15
6	0.95	41.5	0.75	-21.05%	OK				2.67	2.18	1.16
7	0.95	42.0	0.75	-21.05%	OK				2.66	2.21	1.18
8	0.94	41.5	0.76	-19.15%	OK				2.68	2.23	1.18
9	0.93	41.2	0.75	-19.35%	OK				2.66	2.21	1.18
10	0.93	40.9	0.73	-21.51%	OK				2.66	2.20	1.15
AVG.	0.935	41.43	0.752	-19.54%					2.668	2.198	1.159
R	0.08	1.5	0.05	5.60%					0.02	0.06	0.04

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	0.94	0.00%
1	0.28	0.94	0.00%
1	0.56	0.93	-1.06%
1	0.84	0.92	-2.13%
1	1.12	0.91	-3.19%
1	1.40	0.90	-4.26%
1	1.68	0.88	-6.38%
1	1.96	0.85	-9.57%
1	2.24	0.77	-18.09%
1	2.52	0.70	-25.53%
1	2.80	0.55	-41.49%

單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	0.91	0.00%	28.0	0.0
30	0.28	0.91	0.00%	28.2	0.2
30	0.56	0.90	-1.10%	29.0	1.0
30	0.84	0.90	-1.10%	30.3	2.3
30	1.12	0.89	-2.20%	32.3	4.3
30	1.40	0.88	-3.30%	33.9	5.9
30	1.68	0.85	-6.59%	36.2	8.2
30	1.96	0.81	-10.99%	39.6	11.6
30	2.24	0.72	-20.88%	42.0	14.0
30	2.52	0.57	-37.36%	45.9	17.9
30	2.80	0.37	-59.34%	50.4	22.4

承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR252012A-1R5MC

PART NO. CKNR252012A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

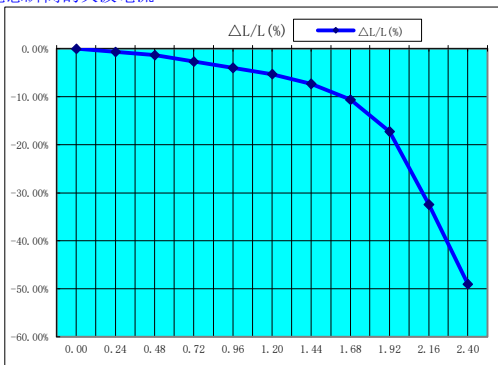
DATE 2025/3/18

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 ± 20%	147 Max.	2.24 Max.	△L/L≤-30%	1.40 △T≤40℃ ℃				上限 下限	2.8 2.4	2.3 1.9 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	1.52	62.0	1.26	-17.11%	OK				2.63	2.19	1.15
2	1.51	61.7	1.21	-19.87%	OK				2.62	2.18	1.16
3	1.61	62.5	1.20	-25.47%	OK				2.65	2.19	1.16
4	1.52	61.9	1.25	-17.76%	OK				2.63	2.26	1.17
5	1.55	61.8	1.21	-21.94%	OK				2.65	2.25	1.17
6	1.54	61.9	1.22	-20.78%	OK				2.66	2.21	1.15
7	1.52	62.0	1.21	-20.39%	OK				2.64	2.20	1.14
8	1.50	62.5	1.21	-19.33%	OK				2.60	2.21	1.14
9	1.56	61.5	1.20	-23.08%	OK				2.65	2.20	1.15
10	1.54	62.0	1.20	-22.08%	OK				2.61	2.20	1.16
AVG.	1.537	61.98	1.217	-20.78%					2.634	2.209	1.155
R	0.11	1	0.06	8.36%					0.06	0.08	0.03

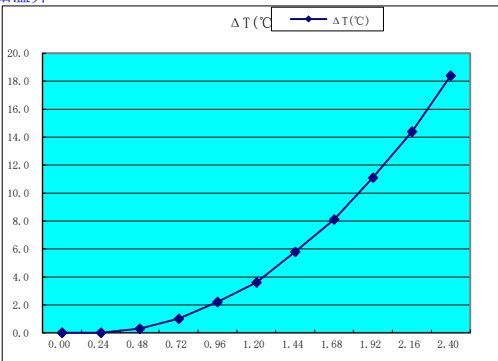
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	1.51	0.00%
1	0.24	1.50	-0.66%
1	0.48	1.49	-1.32%
1	0.72	1.47	-2.65%
1	0.96	1.45	-3.97%
1	1.20	1.43	-5.30%
1	1.44	1.40	-7.28%
1	1.68	1.35	-10.60%
1	1.92	1.25	-17.22%
1	2.16	1.02	-32.45%
1	2.40	0.77	-49.01%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	1.45	0.00%	29.7	0.0
30	0.24	1.45	0.00%	29.7	0.0
30	0.48	1.44	-0.69%	30.0	0.3
30	0.72	1.43	-1.38%	30.7	1.0
30	0.96	1.42	-2.07%	31.9	2.2
30	1.20	1.40	-3.45%	33.3	3.6
30	1.44	1.37	-5.52%	35.5	5.8
30	1.68	1.31	-9.66%	37.8	8.1
30	1.92	1.20	-17.24%	40.8	11.1
30	2.16	0.96	-33.79%	44.1	14.4
30	2.40	0.60	-58.62%	48.1	18.4



承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR252012A-2R2MC

PART NO. CKNR252012A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

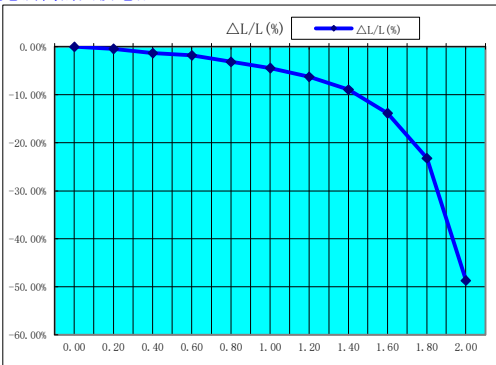
DATE 2025/3/18

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%	216 Max.	1.85 Max.	ΔL/L≤-30%	1.15 ΔT≤40℃ ℃				上限 下限	2.8 2.4	2.3 1.9	1.25 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	2.13	83.7	1.70	-20.19%	OK					2.67	2.20	1.13
2	2.09	82.6	1.71	-18.18%	OK					2.66	2.21	1.16
3	2.09	84.2	1.70	-18.66%	OK					2.67	2.21	1.16
4	2.05	82.8	1.65	-19.51%	OK					2.66	2.20	1.18
5	2.05	83.6	1.62	-20.98%	OK					2.68	2.16	1.17
6	2.09	83.1	1.65	-21.05%	OK					2.66	2.19	1.17
7	2.08	82.4	1.63	-21.63%	OK					2.66	2.20	1.18
8	2.09	83.0	1.64	-21.53%	OK					2.66	2.25	1.17
9	2.01	82.7	1.62	-19.40%	OK					2.66	2.21	1.16
10	2.09	84.1	1.64	-21.53%	OK					2.65	2.24	1.17
AVG.	2.077	83.22	1.656	-20.27%						2.663	2.207	1.165
R	0.12	1.8	0.09	3.45%						0.03	0.09	0.05

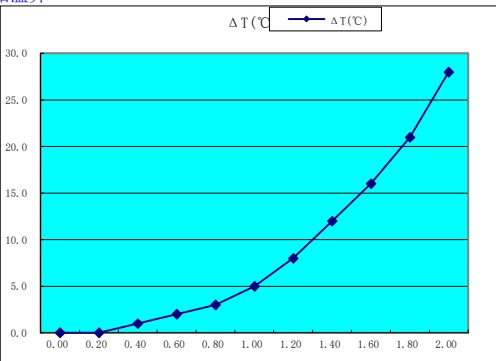
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	2.24	0.00%
1	0.20	2.23	-0.45%
1	0.40	2.21	-1.34%
1	0.60	2.20	-1.79%
1	0.80	2.17	-3.13%
1	1.00	2.14	-4.46%
1	1.20	2.10	-6.25%
1	1.40	2.04	-8.93%
1	1.60	1.93	-13.84%
1	1.80	1.72	-23.21%
1	2.00	1.15	-48.66%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	2.18	0.00%	30.0	0.0
30	0.20	2.16	-0.92%	30.0	0.0
30	0.40	2.14	-1.83%	31.0	1.0
30	0.60	2.12	-2.75%	32.0	2.0
30	0.80	2.09	-4.13%	33.0	3.0
30	1.00	2.05	-5.96%	35.0	5.0
30	1.20	2.00	-8.26%	38.0	8.0
30	1.40	1.93	-11.47%	42.0	12.0
30	1.60	1.82	-16.51%	46.0	16.0
30	1.80	1.64	-24.77%	51.0	21.0
30	2.00	1.30	-40.37%	58.0	28.0



承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR252012A-3R3MC

PART NO. CKNR252012A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

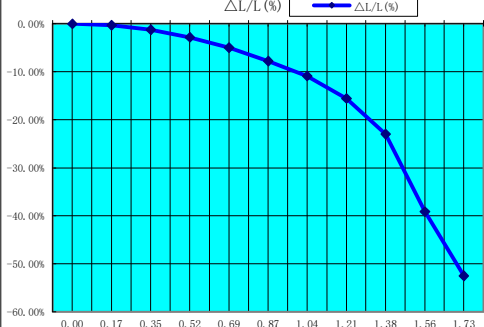
DATE 2025/3/18

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.	3.3 ± 20%	264 Max.	1.61 Max.	ΔL/L≤-30%	1.04 ΔT≤40℃ ℃				上限 2.8 下限 2.4	2.3 1.9	1.25 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	3.07	135	2.64	-14.01%	OK				2.65	2.21	1.18
2	3.11	137	2.68	-13.83%	OK				2.62	2.20	1.14
3	3.09	139	2.67	-13.59%	OK				2.63	2.20	1.15
4	3.19	134	2.68	-15.99%	OK				2.61	2.23	1.18
5	3.19	138	2.64	-17.24%	OK				2.65	2.25	1.18
6	3.10	140	2.62	-15.48%	OK				2.64	2.18	1.17
7	3.20	136	2.65	-17.19%	OK				2.63	2.14	1.17
8	3.22	138	2.65	-17.70%	OK				2.62	2.15	1.15
9	3.19	139	2.68	-15.99%	OK				2.68	2.16	1.16
10	3.14	138	2.62	-16.56%	OK				2.61	2.20	1.18
AVG.	3.150	137.4	2.653	-15.76%					2.634	2.192	1.166
R	0.15	6	0.06	4.11%					0.07	0.11	0.04

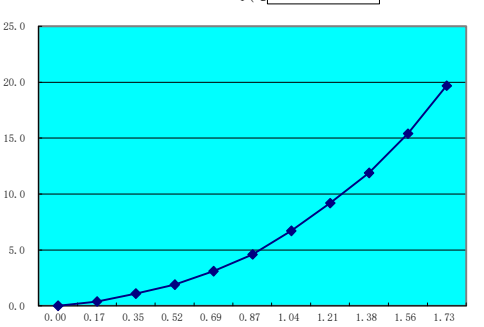
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Isat(A)	L(UH)	ΔL/L(%)
1	0.00	3.22	0.00%
1	0.17	3.21	-0.31%
1	0.35	3.18	-1.24%
1	0.52	3.13	-2.80%
1	0.69	3.06	-4.97%
1	0.87	2.97	-7.76%
1	1.04	2.87	-10.87%
1	1.21	2.72	-15.53%
1	1.38	2.48	-22.98%
1	1.56	1.96	-39.13%
1	1.73	1.53	-52.48%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	3.14	0.00%	19.6	0.0
30	0.17	3.13	-0.32%	20.0	0.4
30	0.35	3.11	-0.96%	20.7	1.1
30	0.52	3.08	-1.91%	21.5	1.9
30	0.69	3.02	-3.82%	22.7	3.1
30	0.87	2.95	-6.05%	24.2	4.6
30	1.04	2.86	-8.92%	26.3	6.7
30	1.21	2.73	-13.06%	28.8	9.2
30	1.38	2.47	-21.34%	31.5	11.9
30	1.56	2.00	-36.31%	35.0	15.4
30	1.73	1.35	-57.01%	39.3	19.7



承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR252012A-4R7MC

PART NO. CKNR252012A Series

DRAWN NO.

TEST R.H. 80~85%

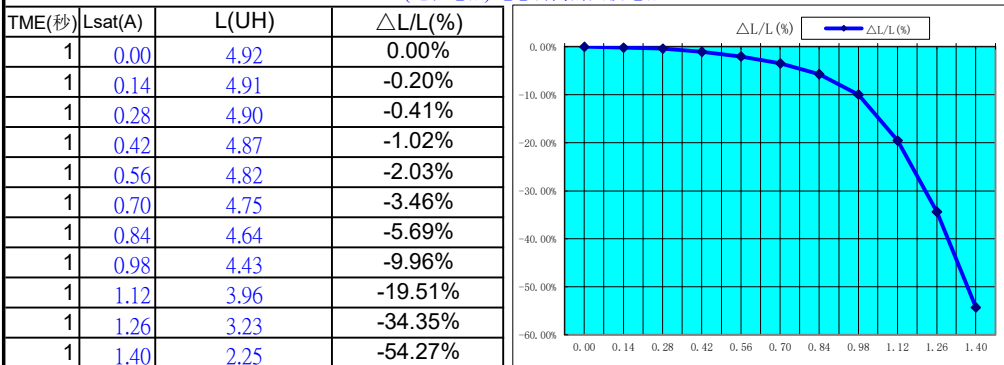
TEST TEMP. 20~25℃

DATE 2025/3/18

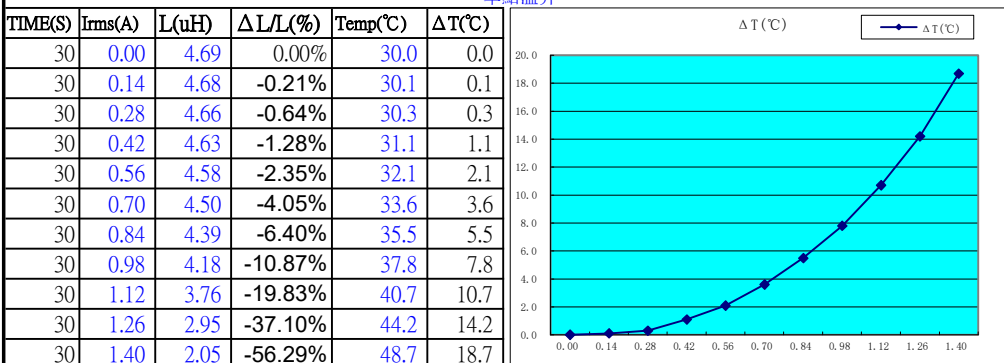
TEST DATA FOR PREPRODUCTION SAMPLE

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%	348 Max.	1.12 Max.	ΔL/L≤-30%	0.84 ΔT≤40℃ ℃			上限 2.8 下限 2.4	2.3 1.9	1.25 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	4.83	183	4.10	-15.11%	OK			2.65	2.12	1.18
2	4.91	184	4.33	-11.81%	OK			2.63	2.18	1.14
3	4.94	182	4.16	-15.79%	OK			2.64	2.18	1.18
4	4.83	185	4.12	-14.70%	OK			2.68	2.20	1.17
5	4.90	184	4.10	-16.33%	OK			2.68	2.20	1.16
6	4.92	185	4.20	-14.63%	OK			2.66	2.21	1.15
7	4.83	185	4.12	-14.70%	OK			2.66	2.21	1.16
8	4.89	185	4.11	-15.95%	OK			2.66	2.21	1.15
9	4.88	186	4.14	-15.16%	OK			2.66	2.21	1.15
10	4.85	185	4.20	-13.40%	OK			2.65	2.25	1.18
AVG.	4.878	184.4	4.158	-14.76%				2.657	2.1969	1.162
R	0.11	4	0.23	4.51%				0.05	0.131	0.04

Isat(飽和電流):電感瞬間の突波電流



單點溫昇



承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR252012A-6R8MC

PART NO. CKNR252012A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

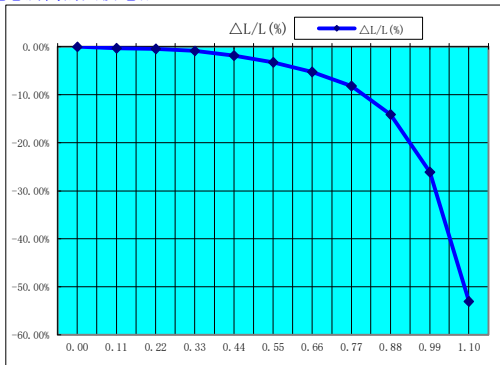
DATE 2025/3/18

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%	581 Max.	0.98 Max.	ΔL/L≤-30%	0.69 ΔT≤40℃ ℃			上限 下限	2.8 2.4	2.3 1.9	1.25 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	7.06	305	6.31	-10.6%	OK				2.62	2.21	1.15
2	7.08	307	6.25	-11.7%	OK				2.68	2.15	1.14
3	7.06	304	6.15	-12.9%	OK				2.65	2.19	1.16
4	7.06	305	6.20	-12.2%	OK				2.69	2.18	1.18
5	7.05	307	6.16	-12.6%	OK				2.65	2.21	1.18
6	7.02	308	6.18	-12.0%	OK				2.64	2.22	1.14
7	7.00	307	6.19	-11.6%	OK				2.62	2.25	1.15
8	7.06	307	6.24	-11.6%	OK				2.68	2.23	1.18
9	7.05	305	6.15	-12.8%	OK				2.68	2.25	1.14
10	7.08	304	6.10	-13.8%	OK				2.64	2.20	1.13
AVG.	7.052	305.9	6.193	-12.18%					2.655	2.209	1.155
R	0.08	4	0.21	3.22%					0.07	0.1	0.05

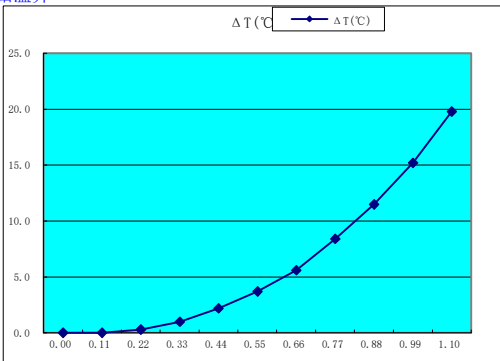
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	7.09	0.00%
1	0.11	7.07	-0.28%
1	0.22	7.06	-0.42%
1	0.33	7.03	-0.85%
1	0.44	6.96	-1.83%
1	0.55	6.86	-3.24%
1	0.66	6.72	-5.22%
1	0.77	6.51	-8.18%
1	0.88	6.09	-14.10%
1	0.99	5.24	-26.09%
1	1.10	3.33	-53.03%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	6.83	0.00%	30.8	0.0
30	0.11	6.83	0.00%	30.8	0.0
30	0.22	6.82	-0.15%	31.1	0.3
30	0.33	6.78	-0.73%	31.8	1.0
30	0.44	6.70	-1.90%	33.0	2.2
30	0.55	6.59	-3.51%	34.5	3.7
30	0.66	6.53	-4.39%	36.4	5.6
30	0.77	6.17	-9.66%	39.2	8.4
30	0.88	5.70	-16.54%	42.3	11.5
30	0.99	4.83	-29.28%	46.0	15.2
30	1.10	3.06	-55.20%	50.6	19.8



承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR252012A-100MC

PART NO. CKNR252012A 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.	10.0 ± 20%	690 Max.	0.79 Max.	ΔL/L≤-30%	0.62 ΔT≤40℃ ℃				上限 2.8 下限 2.4	2.3 1.9	1.25 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	10.0	435	8.65	-13.50%	OK				2.69	2.15	1.18
2	10.2	432	8.59	-15.78%	OK				2.68	2.16	1.17
3	10.2	437	8.62	-15.49%	OK				2.69	2.18	1.17
4	10.1	432	8.52	-15.64%	OK				2.66	2.19	1.15
5	10.0	430	8.70	-13.00%	OK				2.70	2.18	1.17
6	10.1	436	8.65	-14.36%	OK				2.71	2.18	1.14
7	10.0	441	8.52	-14.80%	OK				2.68	2.19	1.16
8	10.2	447	8.51	-16.57%	OK				2.67	2.20	1.15
9	10.1	429	8.24	-18.42%	OK				2.66	2.18	1.18
10	10.1	437	8.16	-19.21%	OK				2.67	2.16	1.18
AVG.	10.100	435.6	8.516	-15.68%					2.681	2.177	1.165
R	0.2	18	0.54	6.21%					0.05	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	10.0	0.00%
1	0.10	10.0	0.00%
1	0.20	9.95	-0.50%
1	0.29	9.89	-1.10%
1	0.39	9.77	-2.30%
1	0.49	9.61	-3.90%
1	0.59	9.38	-6.20%
1	0.69	9.00	-10.00%
1	0.78	8.27	-17.30%
1	0.88	7.00	-30.00%
1	0.98	4.62	-53.80%

ΔL/L (%)

單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	9.74	0.00%	28.5	0.0
30	0.10	9.69	-0.51%	28.6	0.1
30	0.20	9.62	-1.23%	28.9	0.4
30	0.29	9.63	-1.13%	30.1	1.6
30	0.39	9.53	-2.16%	31.3	2.8
30	0.49	9.39	-3.59%	32.7	4.2
30	0.59	9.17	-5.85%	34.7	6.2
30	0.69	8.77	-9.96%	37.4	8.9
30	0.78	8.01	-17.76%	40.6	12.1
30	0.88	6.53	-32.96%	44.5	16.0
30	0.98	4.00	-58.93%	49.3	20.8

ΔT (℃)

承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR252012A-150MC

PART NO. CKNR252012A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

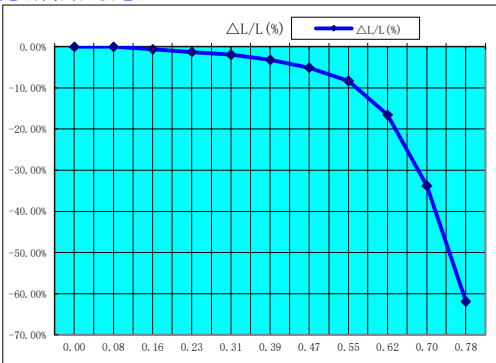
DATE 2025/3/18

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.	15.0 ± 20%	1000 Max.	0.65 Max.	ΔL/L≤-30%	0.57 ΔT≤40℃ ℃				上限 下限	2.8 2.4	2.3 1.9	1.25 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	16.1	836	13.2	-18.01%	OK					2.69	2.15	1.18
2	16.2	841	14.2	-12.35%	OK					2.68	2.16	1.17
3	16.7	839	12.6	-24.55%	OK					2.69	2.18	1.17
4	15.6	833	12.7	-18.59%	OK					2.66	2.19	1.15
5	15.7	836	12.5	-20.38%	OK					2.70	2.18	1.17
6	16.1	838	13.2	-18.01%	OK					2.71	2.18	1.14
7	15.2	834	12.5	-17.76%	OK					2.68	2.19	1.16
8	15.8	836	12.1	-23.42%	OK					2.67	2.20	1.15
9	15.4	840	12.4	-19.48%	OK					2.66	2.18	1.18
10	15.6	839	12.4	-20.51%	OK					2.67	2.16	1.18
AVG.	15.840	837.2	12.78	-19.31%						2.681	2.177	1.165
R	1.5	8	2.1	12.21%						0.05	0.05	0.04

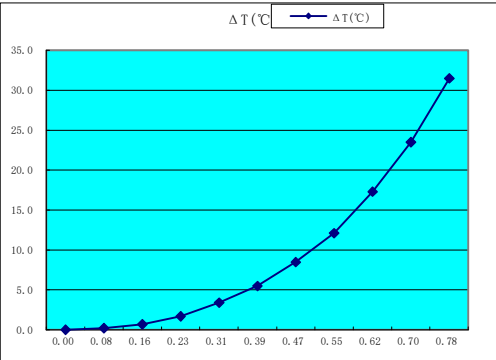
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	15.7	0.00%
1	0.08	15.7	0.00%
1	0.16	15.6	-0.64%
1	0.23	15.5	-1.27%
1	0.31	15.4	-1.91%
1	0.39	15.2	-3.18%
1	0.47	14.9	-5.10%
1	0.55	14.4	-8.28%
1	0.62	13.1	-16.56%
1	0.70	10.4	-33.76%
1	0.78	5.99	-61.85%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	15.1	0.00%	30.0	0.0
30	0.08	15.1	0.00%	30.2	0.2
30	0.16	15.1	0.00%	30.7	0.7
30	0.23	15.1	0.00%	31.7	1.7
30	0.31	15.0	-0.66%	33.4	3.4
30	0.39	14.8	-1.99%	35.5	5.5
30	0.47	14.5	-3.97%	38.5	8.5
30	0.55	13.7	-9.27%	42.1	12.1
30	0.62	11.8	-21.85%	47.3	17.3
30	0.70	7.60	-49.67%	53.5	23.5
30	0.78	3.50	-76.82%	61.5	31.5



承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR252012A-220MC

PART NO. CKNR252012A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

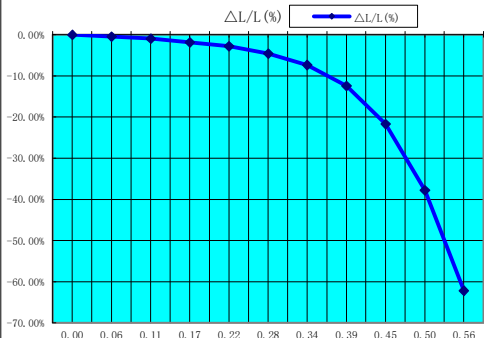
DATE 2025/3/18

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.	22.0 ± 20%	1100 Max.	0.40 Max.	ΔL/L≤-30%	0.50 ΔT≤40℃ ℃				上限 2.8 下限 2.4	2.3 1.9	1.25 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	22.0	865	18.2	-17.27%	OK				2.64	2.26	1.18
2	22.2	890	18.6	-16.22%	OK				2.65	2.25	1.17
3	23.7	861	19.0	-19.83%	OK				2.64	2.21	1.17
4	22.1	883	18.6	-15.84%	OK				2.64	2.20	1.15
5	23.3	849	18.9	-18.88%	OK				2.65	2.18	1.17
6	23.0	847	19.0	-17.39%	OK				2.64	2.18	1.14
7	22.5	867	18.2	-19.11%	OK				2.66	2.20	1.16
8	22.6	863	18.6	-17.70%	OK				2.67	2.20	1.15
9	22.0	857	18.6	-15.45%	OK				2.66	2.21	1.18
10	21.9	870	18.4	-15.98%	OK				2.67	2.16	1.18
AVG.	22.530	865.2	18.61	-17.37%					2.652	2.205	1.165
R	1.8	43	0.8	4.38%					0.03	0.1	0.04

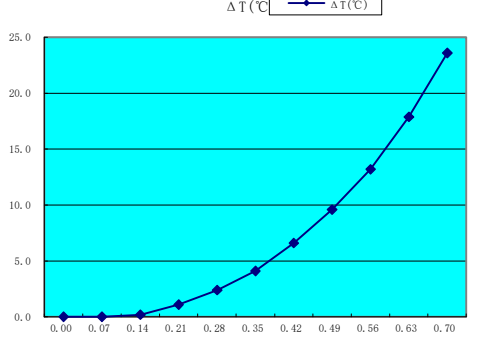
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	21.7	0.00%
1	0.06	21.6	-0.46%
1	0.11	21.5	-0.92%
1	0.17	21.3	-1.84%
1	0.22	21.1	-2.76%
1	0.28	20.7	-4.61%
1	0.34	20.1	-7.37%
1	0.39	19.0	-12.44%
1	0.45	17.0	-21.66%
1	0.50	13.5	-37.79%
1	0.56	8.21	-62.17%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	19.8	0.00%	28.6	0.0
30	0.07	19.8	0.00%	28.6	0.0
30	0.14	19.6	-1.01%	28.8	0.2
30	0.21	19.4	-2.02%	29.7	1.1
30	0.28	19.0	-4.04%	31.0	2.4
30	0.35	18.5	-6.57%	32.7	4.1
30	0.42	17.2	-13.13%	35.2	6.6
30	0.49	14.4	-27.27%	38.2	9.6
30	0.56	8.49	-57.12%	41.8	13.2
30	0.63	4.20	-78.79%	46.5	17.9
30	0.70	3.21	-83.79%	52.2	23.6



承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR252012LDES-2R2MC

PART NO. CKNR252012A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

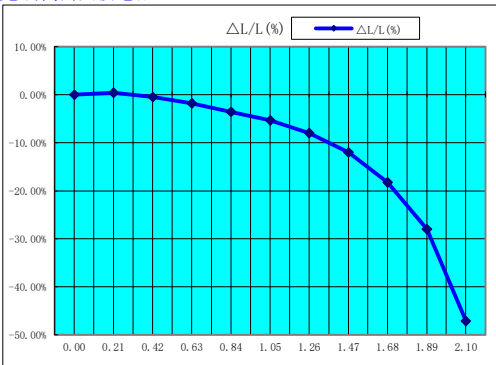
DATE 2025/3/18

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%	96 Max.	1.80 Max.	ΔL/L≤-30%	1.80 ΔT≤40℃ ℃				上限 2.8 下限 2.4	2.3 1.9	1.25 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	2.11	91.8	1.67	-20.85%	OK				2.57	2.20	1.18
2	2.13	92.0	1.65	-22.54%	OK				2.52	2.20	1.19
3	2.19	90.8	1.70	-22.37%	OK				2.51	2.17	1.23
4	2.20	90.6	1.71	-22.27%	OK				2.55	2.19	1.20
5	2.20	93.4	1.68	-23.64%	OK				2.56	2.20	1.19
6	2.16	92.0	1.70	-21.30%	OK				2.57	2.20	1.18
7	2.09	91.3	1.66	-20.57%	OK				2.52	2.20	1.19
8	2.10	93.5	1.64	-21.90%	OK				2.51	2.17	1.23
9	2.18	92.9	1.72	-21.10%	OK				2.55	2.19	1.20
10	2.12	91.1	1.67	-21.23%	OK				2.56	2.20	1.19
AVG.	2.148	91.94	1.68	-21.78%					2.542	2.192	1.198
R	0.11	2.9	0.08	3.06%					0.06	0.03	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	2.25	0.00%
1	0.21	2.26	0.44%
1	0.42	2.24	-0.44%
1	0.63	2.21	-1.78%
1	0.84	2.17	-3.56%
1	1.05	2.13	-5.33%
1	1.26	2.07	-8.00%
1	1.47	1.98	-12.00%
1	1.68	1.84	-18.22%
1	1.89	1.62	-28.00%
1	2.10	1.19	-47.11%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	2.16	0.00%	31.0	0.0
30	0.21	2.16	0.00%	32.0	1.0
30	0.42	2.14	-0.93%	32.0	1.0
30	0.63	2.11	-2.31%	33.0	2.0
30	0.84	2.00	-7.41%	35.0	4.0
30	1.05	2.03	-6.02%	37.0	6.0
30	1.26	1.97	-8.80%	39.0	8.0
30	1.47	1.89	-12.50%	42.0	11.0
30	1.68	1.69	-21.76%	45.0	14.0
30	1.89	1.56	-27.78%	50.0	19.0
30	2.10	1.25	-42.13%	56.0	25.0

