

承 认 书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	07/Feb/2025	REVISION NO.	A
PART NO.	CKNR3010B 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	
07/Feb/2025	07/Feb/2025	07/Feb/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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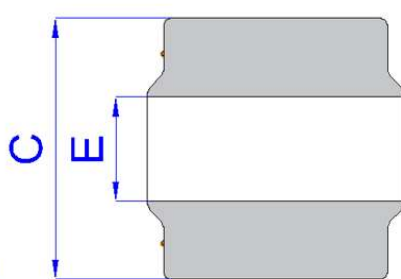
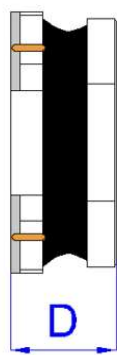
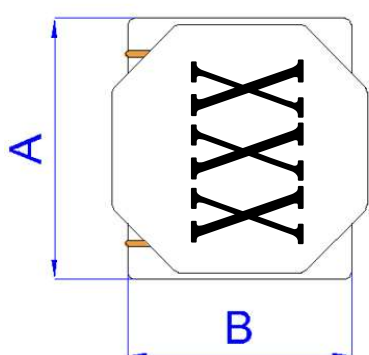


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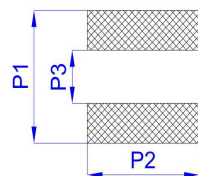
CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 1/8
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PART NO.	CKNR3010B Series	DATE	2025/2/7

1.SHAPE & DIMENSION

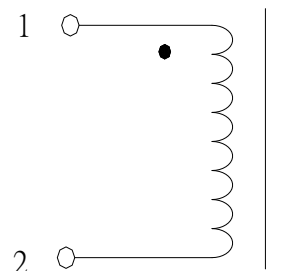
UNIT: mm



Recommended Pad



SCHEMATICS



MARKING
COLOR

BLACK

A	B	C	D	E	P1	P2	P3
3	3	3	0.9	1	3.0	2.7	1.4
±0.2	±0.2	±0.2	±0.1	±0.3	Ref.	Ref.	Ref.

PART NUMBERING SYSTEM

CK NR 3010 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
黄大燕	黄大燕	林树英



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PART NO.	CKNR3010B Series	DATE	2025/2/7

2.SERIES SPECIFICATION

◆ CKNR3010B Series Specification:

Part Number	Inductance	Test Freq	DCR($m\Omega$)		Saturation Current (A)		Temp. Rise Current (A)	
	(μH)	(Hz)	Max	Typ	Max	Typ	Max	Typ
CKNR3010B-1R0YC	1.0	100KHz/1V	90	80	2.30	2.70	2.20	2.80
CKNR3010B-1R5YC	1.5		135	110	1.70	2.00	1.90	2.20
CKNR3010B-2R2NC	2.2		160	120	1.70	1.90	1.90	2.00
CKNR3010B-3R3MC	3.3		220	190	1.20	1.40	1.00	1.60
CKNR3010B-4R7MC	4.7		338	260	1.10	1.25	1.25	1.40
CKNR3010B-6R8MC	6.8		450	350	0.90	1.05	1.05	1.20
CKNR3010B-8R2MC	8.2		490	400	0.70	0.90	0.90	1.10
CKNR3010B-100MC	10.0		590	520	0.60	0.90	0.85	1.00
CKNR3010B-150MC	15.0		1120	850	0.50	0.70	0.70	0.80
CKNR3010B-220MC	22.0		1919	1100	0.40	0.60	0.60	0.70

◆ TEST CONDITION

ITEM	TEST CONDITION	TEST INSTRUMENTS
L	100KHz/1V	Microtest 6377
Isat		TH1773+Microtest 6377
Irms		
DCR	25 $\pm$ 5 $^{\circ}$ C	TH2512B

*The operating temperature is 25 $^{\circ}$ C

*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 CKNR3010B Series size inductors, absolute maximum voltage: 1 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)	LB	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℃

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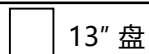
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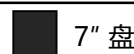
4.PACKAGING(unit: mm)

1.包装类型

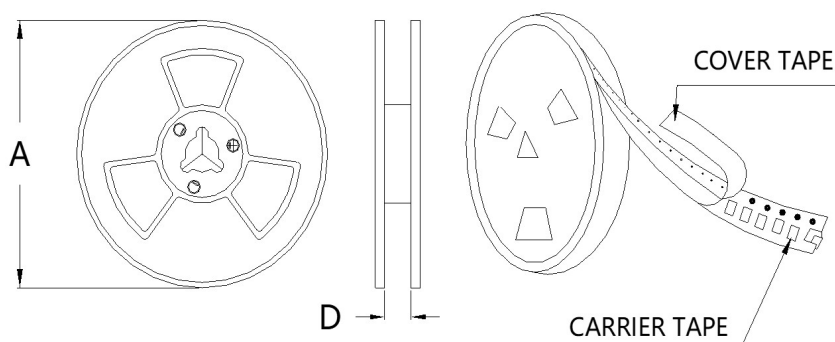
2.包装尺寸



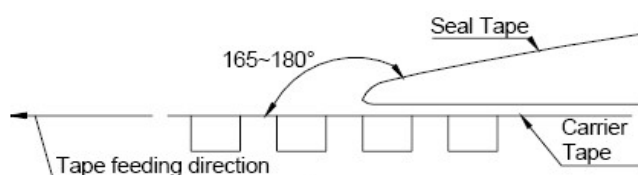
13" 盘



7" 盘



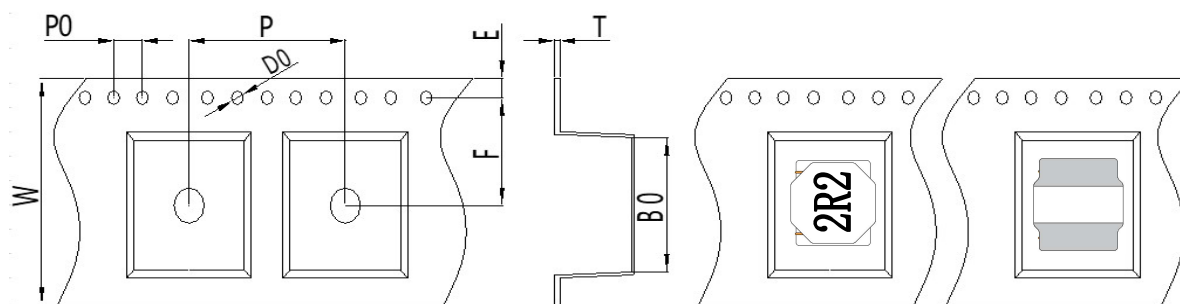
	13" 盘	7" 盘
A	$\Phi 330 \pm 2.0$	$\Phi 178 \pm 2.0$
D	8.4	



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	3.3± 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		

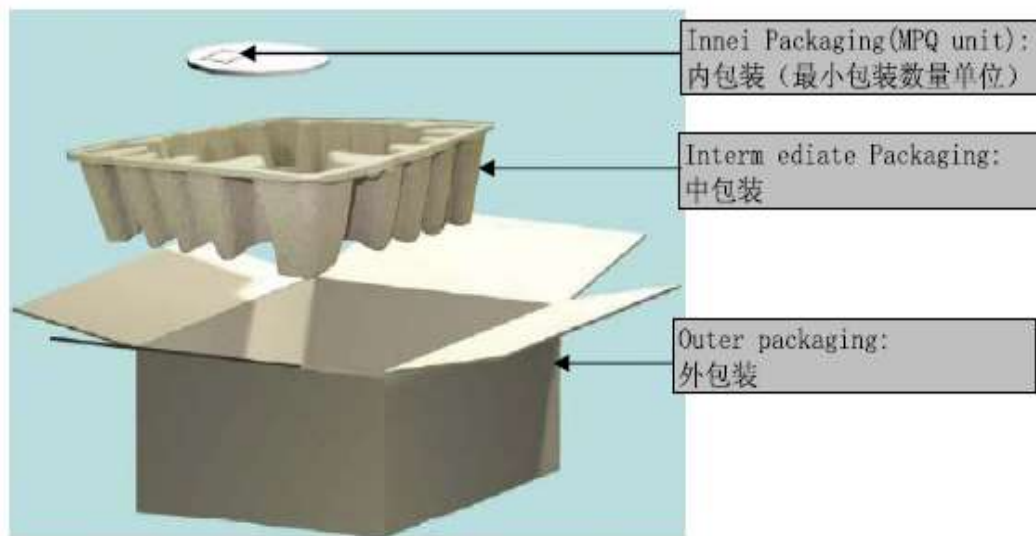
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5. CARTON



- 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 > 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 $\pm 10\%$ 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±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°C, 10±1 sec, 2) 350±10°C, 3.5±0.5 sec	Inductance shall be within $\pm 10\%$ of the initial value. Apperance: No damage

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7. SOLDERING CONDITIONS

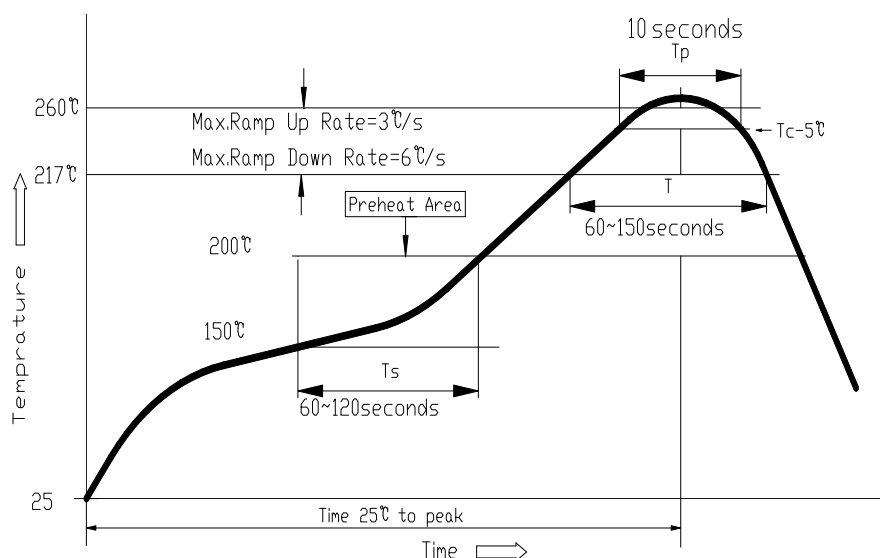
Applicable soldering process to the products is refl.

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



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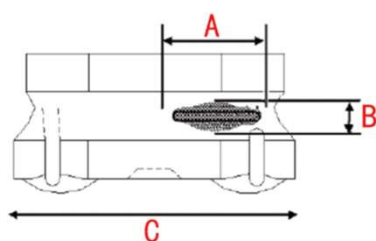


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8.Appearance of the standard

1.Void appearance tolerance limit



Size of voids occurring to coating resin is specified below.

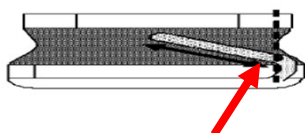
①Width direction(dimension A): Acceptable when $A \leq C/2$

Nonconforming when $B \geq C/2$

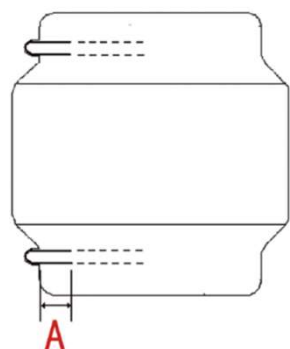
②Length direction(dimension B):Dimension b is not specified

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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CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3010B-1R0YC

PART NO. CKNR3010B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

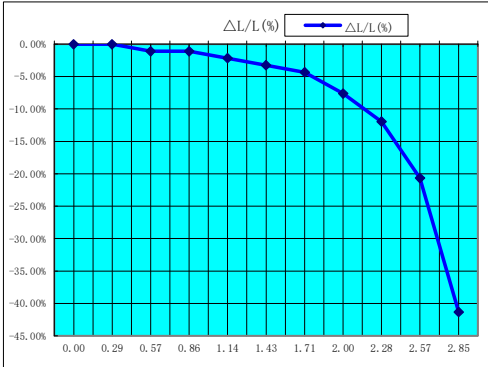
DATE 2025/2/7

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 ± 30%	90 Max.	2.10 Max.	ΔL/L≤-30%	1.80 ΔT≤40℃ ℃				上限 2.8	3.2 2.8	1.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	0.88	80.0	0.81	-7.95%	OK				3.07	3.02	0.94
2	0.90	81.0	0.80	-11.11%	OK				2.98	3.03	0.96
3	0.91	77.0	0.81	-10.99%	OK				2.99	3.01	0.94
4	0.92	78.0	0.81	-11.96%	OK				3.00	3.05	0.97
5	0.95	78.0	0.80	-15.79%	OK				3.02	3.08	0.95
6	0.95	77.0	0.83	-12.63%	OK				3.02	3.09	0.98
7	0.96	75.0	0.82	-14.58%	OK				3.01	3.02	0.96
8	0.97	80.0	0.86	-11.34%	OK				2.99	3.01	0.94
9	0.98	76.0	0.82	-16.33%	OK				2.98	3.03	0.96
10	0.96	78.0	0.84	-12.50%	OK				2.99	2.99	0.95
AVG.	0.938	78	0.82	-12.52%					3.005	3.033	0.955
R	0.1	6	0.06	8.37%					0.09	0.1	0.04

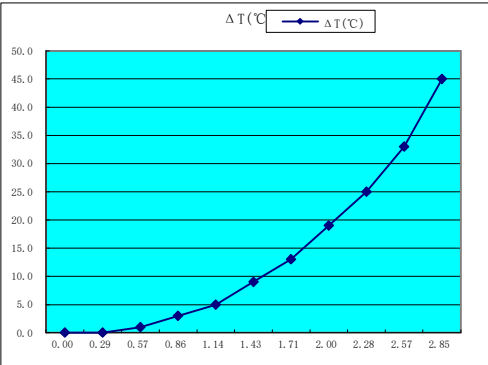
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	0.92	0.00%
1	0.29	0.92	0.00%
1	0.57	0.91	-1.09%
1	0.86	0.91	-1.09%
1	1.14	0.90	-2.17%
1	1.43	0.89	-3.26%
1	1.71	0.88	-4.35%
1	2.00	0.85	-7.61%
1	2.28	0.81	-11.96%
1	2.57	0.73	-20.65%
1	2.85	0.54	-41.30%



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TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	0.92	0.00%	31.0	0.0
30	0.29	0.92	0.00%	31.0	0.0
30	0.57	0.91	-1.09%	32.0	1.0
30	0.86	0.91	-1.09%	34.0	3.0
30	1.14	0.90	-2.17%	36.0	5.0
30	1.43	0.89	-3.26%	40.0	9.0
30	1.71	0.87	-5.43%	44.0	13.0
30	2.00	0.85	-7.61%	50.0	19.0
30	2.28	0.82	-10.87%	56.0	25.0
30	2.57	0.71	-22.83%	64.0	33.0
30	2.85	0.48	-47.83%	76.0	45.0



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DRAWN NO.

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TEST TEMP. 20~25℃

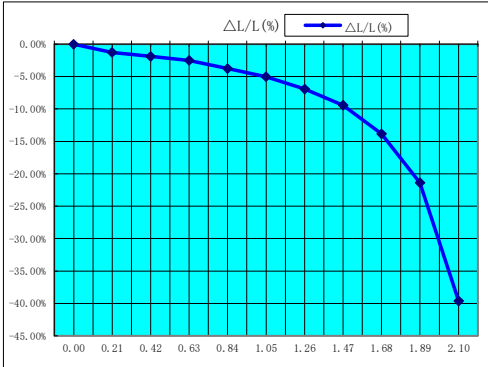
DATE 2025/2/7

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%	135 Max.	1.70 Max.	ΔL/L≤-30%	1.50 ΔT≤40℃ ℃				上限 2.8	3.2 2.8	1.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	1.70	111	1.39	-18.24%	OK				2.98	3.07	0.94
2	1.71	107	1.48	-13.45%	OK				2.98	3.05	0.93
3	1.74	112	1.45	-16.67%	OK				2.99	3.04	0.95
4	1.74	107	1.43	-17.82%	OK				3.02	3.05	0.95
5	1.78	108	1.41	-20.79%	OK				3.01	3.07	0.96
6	1.76	109	1.42	-19.32%	OK				3.03	3.05	0.94
7	1.73	109	1.45	-16.18%	OK				3.01	3.07	0.95
8	1.71	110	1.43	-16.37%	OK				3.01	3.06	0.93
9	1.70	108	1.44	-15.29%	OK				3.02	3.02	0.95
10	1.67	109	1.46	-12.57%	OK				3.03	3.01	0.96
AVG.	1.724	109	1.436	-16.67%					3.008	3.049	0.946
R	0.11	5	0.09	8.21%					0.05	0.06	0.03

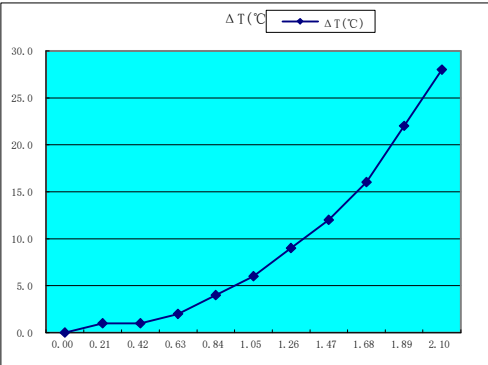
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	1.59	0.00%
1	0.21	1.57	-1.26%
1	0.42	1.56	-1.89%
1	0.63	1.55	-2.52%
1	0.84	1.53	-3.77%
1	1.05	1.51	-5.03%
1	1.26	1.48	-6.92%
1	1.47	1.44	-9.43%
1	1.68	1.37	-13.84%
1	1.89	1.25	-21.38%
1	2.10	0.96	-39.62%



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TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	1.58	0.00%	28.0	0.0
30	0.21	1.58	0.00%	29.0	1.0
30	0.42	1.57	-0.63%	29.0	1.0
30	0.63	1.56	-1.27%	30.0	2.0
30	0.84	1.54	-2.53%	32.0	4.0
30	1.05	1.52	-3.80%	34.0	6.0
30	1.26	1.50	-5.06%	37.0	9.0
30	1.47	1.46	-7.59%	40.0	12.0
30	1.68	1.40	-11.39%	44.0	16.0
30	1.89	1.29	-18.35%	50.0	22.0
30	2.10	1.10	-30.38%	56.0	28.0



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3010B-2R2NC

PART NO. CKNR3010B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

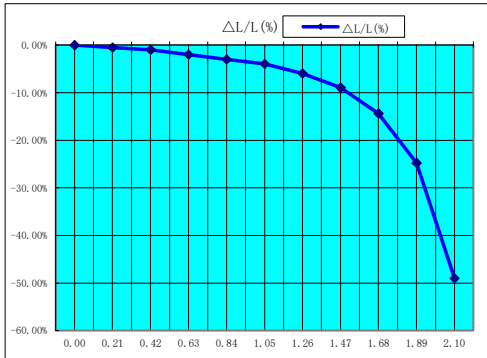
DATE 2025/2/7

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION						DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				
SPEC.	2.2 ± 25%	160 Max.	1.30 Max.	ΔL/L≤-30%	1.30 ΔT≤40℃ ℃			上限 下限	長 mm 3.2 2.8 寬 mm 3.2 2.8 高 mm 1.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V						
1	2.07	120	1.96	-5.31%	OK				3.02 3.00 0.98
2	2.08	119	1.97	-5.29%	OK				3.04 3.02 0.96
3	2.11	117	2.00	-5.21%	OK				3.02 3.01 0.93
4	2.06	120	2.01	-2.43%	OK				3.00 2.99 0.94
5	2.11	117	2.00	-5.21%	OK				3.02 3.01 0.97
6	2.12	122	2.02	-4.72%	OK				3.00 2.99 0.93
7	2.07	120	2.01	-2.90%	OK				3.00 2.98 0.95
8	2.04	117	1.98	-2.94%	OK				2.98 3.00 0.93
9	2.07	120	1.99	-3.86%	OK				2.99 2.98 0.94
10	2.11	119	1.94	-8.06%	OK				2.99 2.97 0.95
AVG.	2.084	119.1	1.988	-4.59%					3.006 2.995 0.948
R	0.08	5	0.08	5.63%					0.06 0.05 0.05

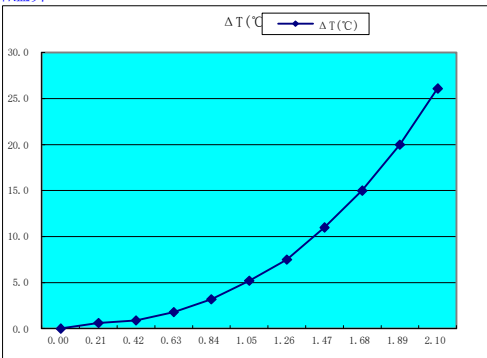
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	2.02	0.00%
1	0.21	2.01	-0.50%
1	0.42	2.00	-0.99%
1	0.63	1.98	-1.98%
1	0.84	1.96	-2.97%
1	1.05	1.94	-3.96%
1	1.26	1.90	-5.94%
1	1.47	1.84	-8.91%
1	1.68	1.73	-14.36%
1	1.89	1.52	-24.75%
1	2.10	1.03	-49.01%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	2.02	0.00%	29.0	0.0
30	0.21	2.02	0.00%	29.6	0.6
30	0.42	2.01	-0.50%	29.9	0.9
30	0.63	2.00	-0.99%	30.8	1.8
30	0.84	1.98	-1.98%	32.2	3.2
30	1.05	1.95	-3.47%	34.2	5.2
30	1.26	1.92	-4.95%	36.5	7.5
30	1.47	1.85	-8.42%	40.0	11.0
30	1.68	1.70	-15.84%	44.0	15.0
30	1.89	1.46	-27.72%	49.0	20.0
30	2.10	1.05	-48.02%	55.1	26.1



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3010B-3R3MC

PART NO. CKNR3010B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

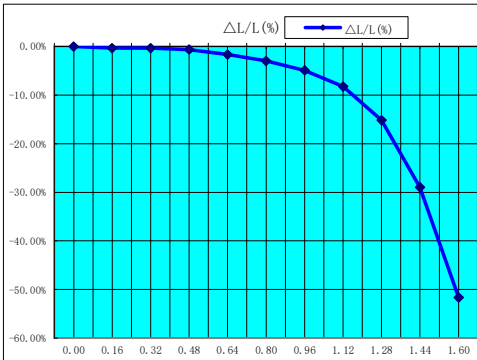
DATE 2025/2/7

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%	220 Max.	1.20 Max.	ΔL/L≤-30%	1.00 ΔT≤40℃ ℃			上限 下限	3.2 2.8	3.2 2.8	1.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	3.11	191	2.85	-8.36%	OK				3.02	3.03	0.93
2	3.06	182	2.87	-6.21%	OK				3.02	3.01	0.93
3	3.04	187	2.82	-7.24%	OK				3.04	3.03	0.95
4	3.11	181	2.79	-10.29%	OK				3.01	3.01	0.94
5	3.00	184	2.83	-5.67%	OK				3.01	3.04	0.93
6	3.06	180	2.80	-8.50%	OK				3.02	3.00	0.95
7	3.04	183	2.79	-8.22%	OK				3.00	3.02	0.93
8	3.02	183	2.78	-7.95%	OK				3.00	3.01	0.94
9	3.03	183	2.89	-4.62%	OK				2.99	3.00	0.95
10	3.00	182	2.85	-5.00%	OK				3.02	2.99	0.96
AVG.	3.047	183.6	2.827	-7.21%					3.013	3.014	0.941
R	0.11	11	0.11	5.67%					0.05	0.05	0.03

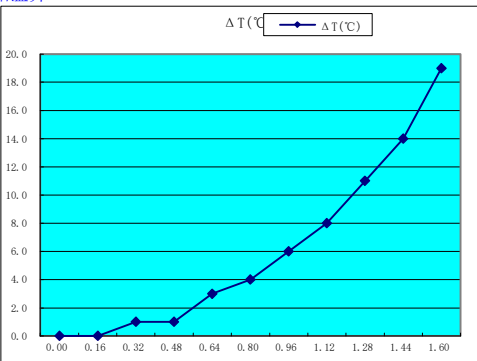
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	3.04	0.00%
1	0.16	3.03	-0.33%
1	0.32	3.03	-0.33%
1	0.48	3.02	-0.66%
1	0.64	2.99	-1.64%
1	0.80	2.95	-2.96%
1	0.96	2.89	-4.93%
1	1.12	2.79	-8.22%
1	1.28	2.58	-15.13%
1	1.44	2.16	-28.95%
1	1.60	1.47	-51.64%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	3.00	0.00%	29.0	0.0
30	0.16	2.96	-1.33%	29.0	0.0
30	0.32	2.95	-1.67%	30.0	1.0
30	0.48	2.94	-2.00%	30.0	1.0
30	0.64	2.92	-2.67%	32.0	3.0
30	0.80	2.89	-3.67%	33.0	4.0
30	0.96	2.84	-5.33%	35.0	6.0
30	1.12	2.76	-8.00%	37.0	8.0
30	1.28	2.59	-13.67%	40.0	11.0
30	1.44	2.26	-24.67%	43.0	14.0
30	1.60	1.64	-45.33%	48.0	19.0



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3010B-4R7MC

PART NO. CKNR3010B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

DATE 2025/2/7

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%	360 Max.	1.10 Max.	ΔL/L≤-30%	0.90 ΔT≤40℃ ℃			上限 下限	3.2 2.8	3.2 2.8 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	4.38	263	3.76	-14.16%	OK			3.01	3.03	0.94
2	4.37	265	3.98	-8.92%	OK			3.02	3.01	0.93
3	4.44	264	3.88	-12.61%	OK			3.02	3.03	0.93
4	4.38	270	3.93	-10.27%	OK			3.03	3.00	0.94
5	4.37	270	3.69	-15.56%	OK			3.03	3.04	0.96
6	4.36	263	3.91	-10.32%	OK			3.02	3.06	0.95
7	4.38	261	3.92	-10.50%	OK			3.00	3.00	0.94
8	4.39	265	3.90	-11.10%	OK			3.01	2.99	0.97
9	4.33	265	3.89	-10.16%	OK			3.02	3.00	0.95
10	4.37	258	3.84	-12.13%	OK			3.00	3.02	0.94
AVG.	4.377	264.4	3.87	-11.57%				3.016	3.018	0.945
R	0.11	12	0.29	6.64%				0.03	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	4.45	0.00%
1	0.14	4.45	0.00%
1	0.27	4.43	-0.45%
1	0.41	4.42	-0.67%
1	0.54	4.39	-1.35%
1	0.68	4.34	-2.47%
1	0.82	4.26	-4.27%
1	0.95	4.13	-7.19%
1	1.09	3.86	-13.26%
1	1.22	3.34	-24.94%
1	1.36	2.21	-50.34%

ΔL/L (%)

單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	4.31	0.00%	25.0	0.0
30	0.14	4.30	-0.23%	25.2	0.2
30	0.27	4.29	-0.46%	25.7	0.7
30	0.41	4.27	-0.93%	26.8	1.8
30	0.54	4.25	-1.39%	28.2	3.2
30	0.68	4.19	-2.78%	30.0	5.0
30	0.82	4.10	-4.87%	32.4	7.4
30	0.95	3.96	-8.12%	35.5	10.5
30	1.09	3.70	-14.15%	39.3	14.3
30	1.22	3.27	-24.13%	43.6	18.6
30	1.36	2.55	-40.84%	49.4	24.4

ΔT(℃)

承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3010B-6R8MC

PART NO. CKNR3010B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

DATE 2025/2/7

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%	450 Max.	0.90 Max.	ΔL/L≤-30%	0.80 ΔT≤40℃ ℃				上限 下限	3.2 2.8	3.2 2.8	1.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	6.40	345	5.64	-11.9%	OK				3.04	3.08	0.93	
2	6.50	331	5.82	-10.5%	OK				2.98	3.05	0.95	
3	6.40	335	5.47	-14.5%	OK				3.01	3.07	0.95	
4	6.40	342	5.72	-10.6%	OK				3.01	3.05	0.96	
5	6.50	345	5.72	-12.0%	OK				3.04	3.03	0.93	
6	6.60	338	5.65	-14.4%	OK				3.02	3.08	0.96	
7	6.50	347	5.69	-12.5%	OK				3.00	3.00	0.93	
8	6.50	341	5.66	-12.9%	OK				3.03	3.01	0.95	
9	6.50	348	5.65	-13.1%	OK				3.10	3.02	0.95	
10	6.40	343	5.64	-11.9%	OK				2.99	3.00	0.94	
AVG.	6.470	341.5	5.666	-12.42%					3.022	3.0393	0.945	
R	0.2	17	0.35	4.07%					0.12	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	6.40	0.00%
1	0.12	6.42	#VALUE!
1	0.23	6.41	0.16%
1	0.35	6.40	0.00%
1	0.46	6.35	-0.78%
1	0.58	6.28	-1.88%
1	0.69	6.18	-3.44%
1	0.81	5.95	-7.03%
1	0.92	5.64	-11.88%
1	1.04	4.99	-22.03%
1	1.15	3.65	-42.97%

單點溫昇					
TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	6.31	0.00%	27.9	0.0
30	0.12	6.30	-0.16%	28.2	0.3
30	0.23	6.28	-0.48%	29.0	1.1
30	0.35	6.25	-0.95%	30.2	2.3
30	0.46	6.19	-1.90%	32.0	4.1
30	0.58	6.10	-3.33%	34.0	6.1
30	0.69	5.96	-5.55%	36.6	8.7
30	0.81	5.71	-9.51%	39.8	11.9
30	0.92	5.25	-16.80%	42.7	14.8
30	1.04	4.43	-29.79%	48.4	20.5
30	1.15	3.27	-48.18%	54.2	26.3

承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3010B-8R2MC

PART NO. CKNR3010B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

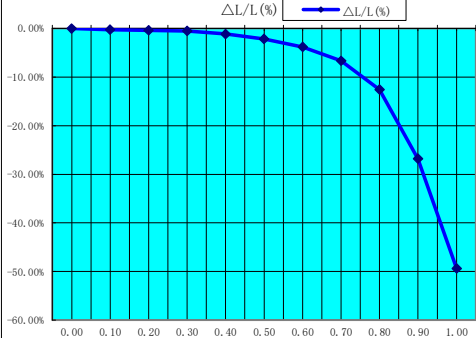
DATE 2025/2/7

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.	8.2 ± 20%	490 Max.	0.70 Max.	ΔL/L≤-30%	0.70 ΔT≤40℃ ℃			上限 下限	3.2 2.8	3.2 2.8 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	8.06	393	7.38	-8.4%	OK			3.01	3.02	0.95
2	8.16	390	7.35	-9.9%	OK			3.04	3.05	0.94
3	8.03	387	7.25	-9.7%	OK			3.03	3.06	0.94
4	8.06	397	7.30	-9.4%	OK			3.02	3.01	0.96
5	8.00	396	7.29	-8.9%	OK			3.01	3.05	0.95
6	8.06	397	7.31	-9.3%	OK			3.03	3.02	0.96
7	8.09	387	7.26	-10.3%	OK			3.00	3.02	0.94
8	8.08	393	7.25	-10.3%	OK			3.03	3.03	0.95
9	8.06	396	7.21	-10.5%	OK			3.01	3.01	0.95
10	8.09	394	7.19	-11.1%	OK			3.03	3.05	0.98
AVG.	8.069	393	7.279	-9.79%				3.021	3.032	0.952
R	0.16	10	0.19	2.69%				0.04	0.05	0.04

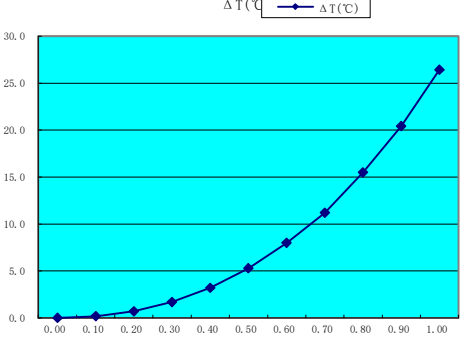
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	7.96	0.00%
1	0.10	7.94	-0.25%
1	0.20	7.93	-0.38%
1	0.30	7.92	-0.50%
1	0.40	7.87	-1.13%
1	0.50	7.79	-2.14%
1	0.60	7.66	-3.77%
1	0.70	7.43	-6.66%
1	0.80	6.96	-12.56%
1	0.90	5.83	-26.76%
1	1.00	4.03	-49.37%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	7.79	0.00%	32.6	0.0
30	0.10	7.78	-0.13%	32.8	0.2
30	0.20	7.77	-0.26%	33.3	0.7
30	0.30	7.77	-0.26%	34.3	1.7
30	0.40	7.73	-0.77%	35.8	3.2
30	0.50	7.65	-1.80%	37.9	5.3
30	0.60	7.51	-3.59%	40.6	8.0
30	0.70	7.26	-6.80%	43.8	11.2
30	0.80	6.75	-13.35%	48.1	15.5
30	0.90	5.64	-27.60%	53.0	20.4
30	1.00	3.85	-50.58%	59.0	26.4



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3010B-100MC

PART NO. CKNR3010B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

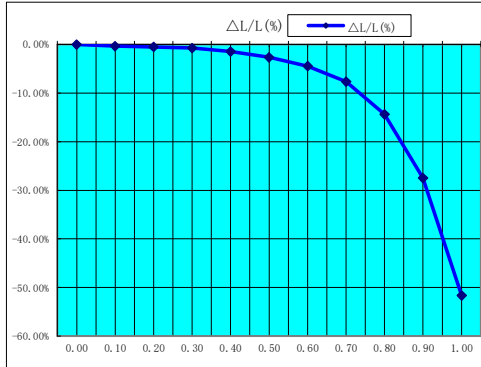
DATE 2025/2/7

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%	590 Max.	0.60 Max.	ΔL/L≤-30%	0.62 ΔT≤40℃ ℃				上限 下限	3.2 2.8	3.2 2.8 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	9.33	531	8.82	-5.47%	OK				3.01	3.04	0.94
2	9.44	519	8.88	-5.93%	OK				3.01	3.04	0.96
3	9.46	507	9.02	-4.65%	OK				3.04	3.01	0.98
4	9.54	523	9.10	-4.61%	OK				3.00	3.02	0.95
5	9.40	523	9.04	-3.83%	OK				3.03	3.02	0.95
6	9.59	515	9.14	-4.69%	OK				3.03	3.01	0.96
7	9.39	523	9.00	-4.15%	OK				3.03	3.00	0.95
8	9.51	522	8.99	-5.47%	OK				3.01	3.30	0.97
9	9.28	512	8.85	-4.63%	OK				3.08	3.01	0.94
10	9.38	523	8.81	-6.08%	OK				3.00	3.02	0.95
AVG.	9.432	519.8	8.965	-4.95%					3.024	3.047	0.955
R	0.31	24	0.33	2.25%					0.08	0.3	0.04

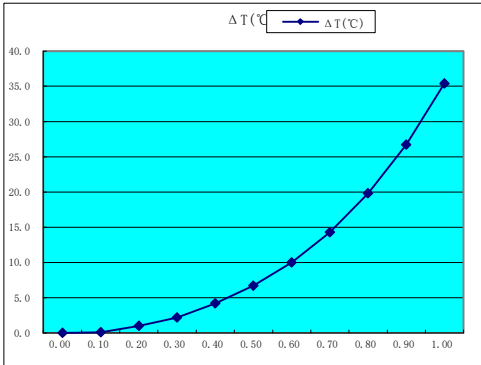
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	9.39	0.00%
1	0.10	9.36	-0.32%
1	0.20	9.34	-0.53%
1	0.30	9.32	-0.75%
1	0.40	9.25	-1.49%
1	0.50	9.14	-2.66%
1	0.60	8.97	-4.47%
1	0.70	8.67	-7.67%
1	0.80	8.04	-14.38%
1	0.90	6.81	-27.48%
1	1.00	4.54	-51.65%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	9.35	0.00%	26.6	0.0
30	0.10	9.34	-0.11%	26.7	0.1
30	0.20	9.32	-0.32%	27.6	1.0
30	0.30	9.29	-0.64%	28.8	2.2
30	0.40	9.24	-1.18%	30.8	4.2
30	0.50	9.10	-2.67%	33.3	6.7
30	0.60	8.88	-5.03%	36.6	10.0
30	0.70	8.44	-9.73%	40.9	14.3
30	0.80	7.78	-16.79%	46.4	19.8
30	0.90	5.40	-42.25%	53.3	26.7
30	1.00	3.12	-66.63%	62.0	35.4



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3010B-150MC

PART NO. CKNR3010B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

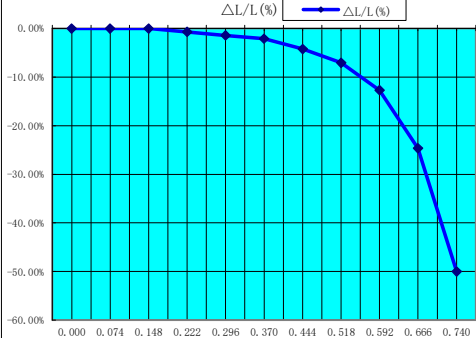
DATE 2025/2/7

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%	1120 Max.	0.50 Max.	ΔL/L≤-30%	0.50 ΔT≤40℃ ℃			上限 下限	3.2 2.8	3.2 2.8 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	14.1	854	13.1	-7.09%	OK			3.01	3.04	0.94
2	14.2	863	13.0	-8.45%	OK			3.01	3.04	0.96
3	14.0	839	13.1	-6.43%	OK			3.04	3.01	0.98
4	13.9	836	12.8	-7.91%	OK			3.00	3.02	0.95
5	13.8	853	12.5	-9.42%	OK			3.03	3.02	0.95
6	14.2	857	13.0	-8.45%	OK			3.03	3.01	0.96
7	14.3	849	12.9	-9.79%	OK			3.03	3.00	0.95
8	14.0	842	12.8	-8.57%	OK			3.01	3.30	0.97
9	13.9	838	12.8	-7.91%	OK			3.08	3.01	0.94
10	14.4	866	12.9	-10.42%	OK			3.00	3.02	0.95
AVG.	14.080	849.7	12.89	-8.44%				3.024	3.047	0.955
R	0.6	30	0.6	3.99%				0.08	0.3	0.04

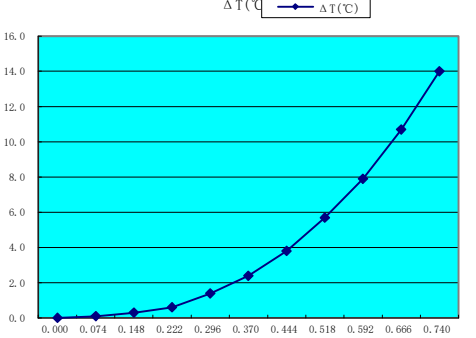
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.000	14.2	0.00%
1	0.074	14.2	0.00%
1	0.148	14.2	0.00%
1	0.222	14.1	-0.70%
1	0.296	14.0	-1.41%
1	0.370	13.9	-2.11%
1	0.444	13.6	-4.23%
1	0.518	13.2	-7.04%
1	0.592	12.4	-12.68%
1	0.666	10.7	-24.65%
1	0.740	7.10	-50.00%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.000	14.0	0.00%	32.8	0.0
30	0.074	13.9	-0.71%	32.9	0.1
30	0.148	13.8	-1.43%	33.1	0.3
30	0.222	13.7	-2.14%	33.4	0.6
30	0.296	13.5	-3.57%	34.2	1.4
30	0.370	13.1	-6.43%	35.2	2.4
30	0.444	12.6	-10.00%	36.6	3.8
30	0.518	11.8	-15.71%	38.5	5.7
30	0.592	10.7	-23.57%	40.7	7.9
30	0.666	9.11	-34.93%	43.5	10.7
30	0.740	7.27	-48.07%	46.8	14.0



承 認 书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3010B-220MC

PART NO. CKNR3010B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

DATE 2025/2/7

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%	1919 Max.	0.40 Max.	ΔL/L≤-30%	0.40 ΔT≤40℃ ℃				上限 下限	3.2 2.8	3.2 2.8	1.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	21.5	1055	19.5	-9.30%	OK				3.00	3.02	0.94	
2	21.7	1084	19.8	-8.76%	OK				3.01	3.03	0.96	
3	21.2	1095	19.6	-7.55%	OK				3.01	3.02	0.95	
4	21.1	1075	20.0	-5.21%	OK				3.00	3.01	0.96	
5	21.7	1087	18.9	-12.90%	OK				3.02	3.03	0.95	
6	21.7	1090	19.3	-11.06%	OK				2.99	3.00	0.93	
7	21.6	1095	19.6	-9.26%	OK				2.98	3.01	0.96	
8	21.1	1098	19.2	-9.00%	OK				2.99	2.99	0.94	
9	21.5	1096	19.4	-9.77%	OK				3.03	2.98	0.93	
10	21.6	1097	19.7	-8.80%	OK				2.98	3.00	0.97	
AVG.	21.470	1087.2	19.5	-9.16%					3.001	3.009	0.949	
R	0.6	43	1.1	7.69%					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	21.7	0.00%
1	0.06	21.6	-0.46%
1	0.13	21.6	-0.46%
1	0.19	21.5	-0.92%
1	0.25	21.5	-0.92%
1	0.32	21.2	-2.30%
1	0.38	20.9	-3.69%
1	0.44	20.2	-6.91%
1	0.50	18.9	-12.90%
1	0.57	16.1	-25.81%
1	0.63	11.3	-47.93%

單點溫昇					
TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	21.3	0.00%	26.3	0.0
30	0.06	21.3	0.00%	26.5	0.2
30	0.13	21.2	-0.47%	27.5	1.2
30	0.19	21.0	-1.41%	28.6	2.3
30	0.25	20.9	-1.88%	30.2	3.9
30	0.32	20.6	-3.29%	32.5	6.2
30	0.38	20.2	-5.16%	35.2	8.9
30	0.44	19.2	-9.86%	38.5	12.2
30	0.50	17.6	-17.37%	42.8	16.5
30	0.57	14.7	-30.99%	47.8	21.5
30	0.63	11.1	-47.89%	53.8	27.5