

承 认 书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	13/Feb/2025	REVISION NO.	A
PART NO.	CKNR4015B 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	
13/Feb/2025	13/Feb/2025	13/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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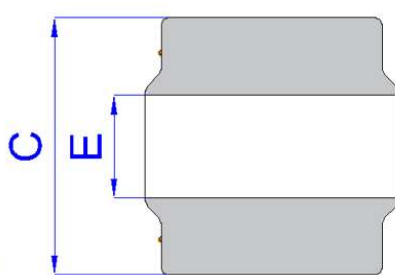
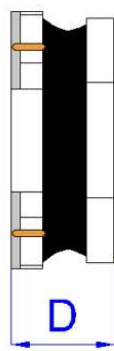
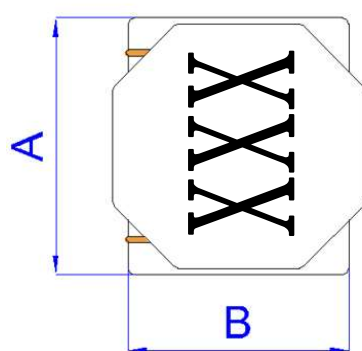


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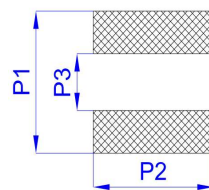
CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 1/8
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1.SHAPE & DIMENSION

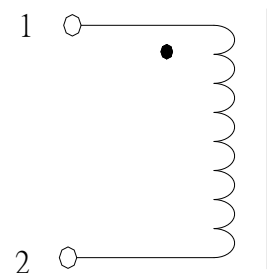
UNIT: mm



Recommended Pad



SCHEMATICS



MARKING
COLOR

BLACK

A	B	C	D	E	P1	P2	P3
4	4	4	1.5	1.6	4	3.7	1.6
±0.2	±0.2	±0.2	MAX	±0.2	Ref.	Ref.	Ref.

PART NUMBERING SYSTEM

CK NR 4015 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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2.SERIES SPECIFICATION

◆ CKNR4015B 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
CKNR4015B-2R2MC	2.2	100KHz/1V	84.0	63.0	3.50	3.70	2.60	3.10
CKNR4015B-3R3MC	3.3		111.0	86.0	2.30	2.60	2.60	3.20
CKNR4015B-4R7MC	4.7		158.0	120.0	1.90	2.10	1.80	2.35
CKNR4015B-6R8MC	6.8		215.0	170.0	2.00	2.20	1.70	2.10
CKNR4015B-100MC	10.0		300.0	230.0	1.25	1.40	1.40	1.70
CKNR4015B-150MC	15.0		370.0	305.0	1.20	1.30	1.30	1.50
CKNR4015B-220MC	22.0		528.0	470.0	1.10	1.30	1.10	1.20

◆ 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 CKNR4015B 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)	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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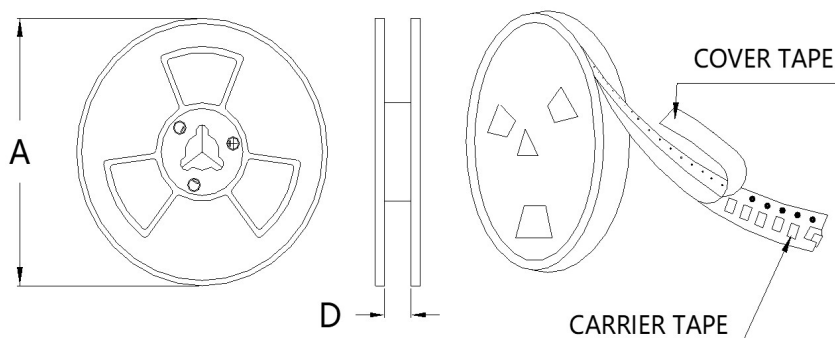
4.PACKAGING(unit: mm)

1.包装类型

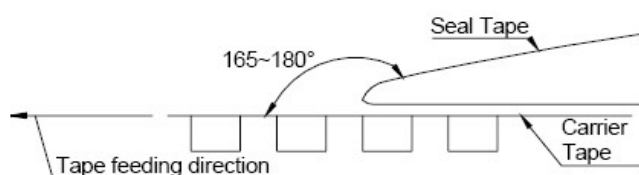
2.包装尺寸

13" 盘

7" 盘



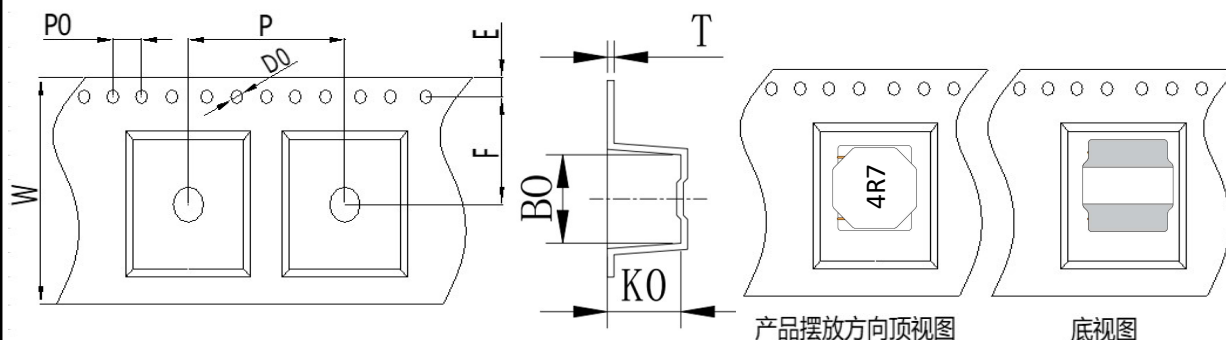
	13" 盘	7" 盘
A	$\Phi 330 \pm 2.0$	$\Phi 178 \pm 2.0$
D	12.4	



Peel-off strength:10~100gf.

Peel-off angle:165°-180°

Peel-off speed:300mm/min.



产品摆放方向顶视图

底视图

Item	W	B0	P	T	E	F	D0	P0	K0	
DIM(mm)	12.0±0.3	4.3±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	1.7±0.1	

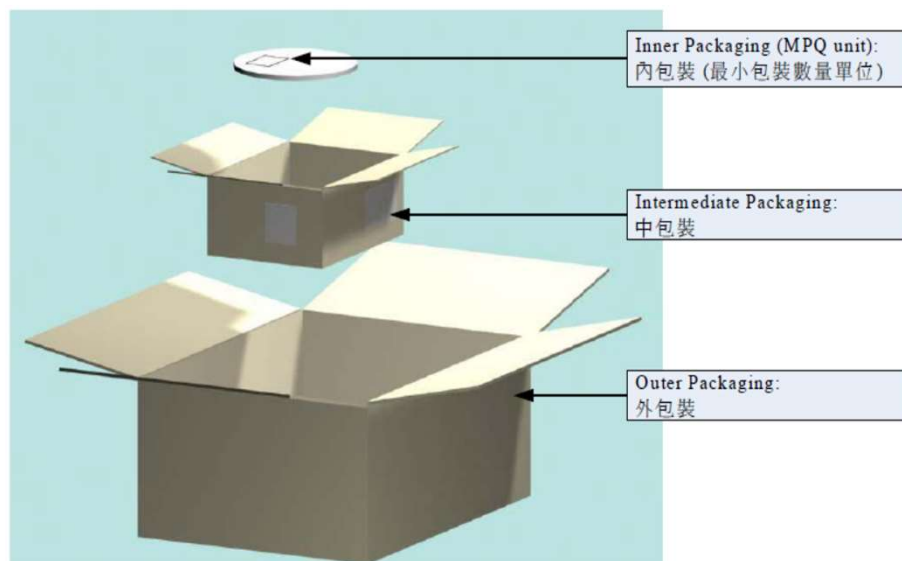
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5. CARTON



- 1.1 外箱: 36*36*23 cm 一箱装 2内箱
1.2 内箱: 33.5*33.5*9 cm 一箱装5卷制品
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:90mm 宽度:50mm
(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	4000	PCS
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外箱包装数量

每箱	10	卷,共	40000	PCS
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内箱包装数量

每箱	5	卷,共	20000	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

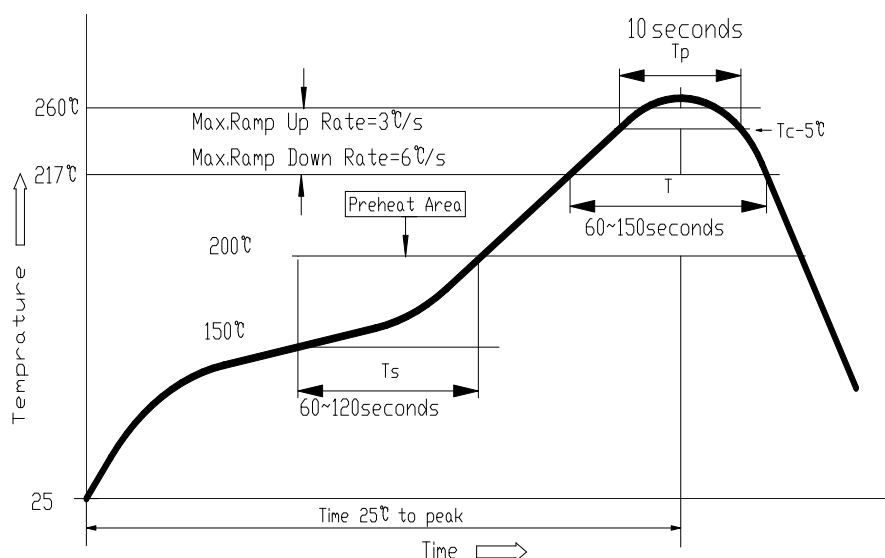
Applicable soldering process to the products is refl.

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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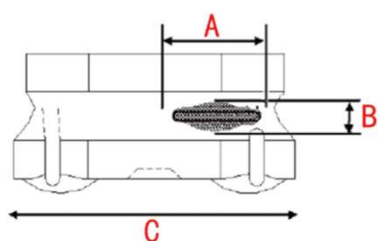


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8.Appearance of the standard

1.Void appearance tolerance limit



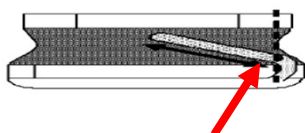
Size of voids occurring to coating resin is specified below.

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

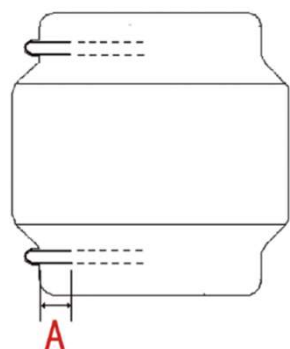
②Length direction(dimension B):Dimension b is not specified

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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JINKAI P/N: CKNR4015B-2R2MC

PART NO. CKNR4015B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

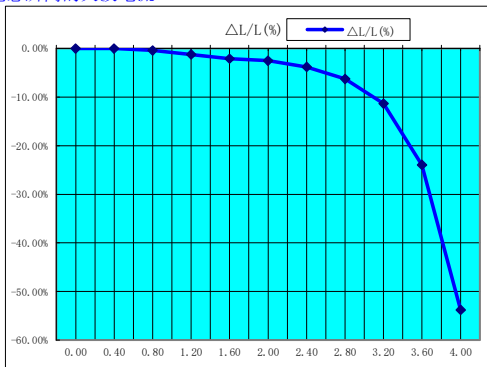
DATE 2025/2/13

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%	84 Max.	2.60 Max.	ΔL/L≤-30%	2.60 ΔT≤40℃ ℃				上限 4.2 下限 3.8	4.2 3.8	1.5 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	2.08	63.7	1.80	-13.46%	OK				4.00	3.99	1.42
2	2.09	64.2	1.82	-12.92%	OK				3.97	3.98	1.44
3	2.07	65.2	1.84	-11.11%	OK				3.99	3.99	1.45
4	2.10	62.6	1.86	-11.43%	OK				4.00	4.01	1.41
5	2.07	62.2	1.84	-11.11%	OK				4.01	3.99	1.41
6	2.11	64.0	1.84	-12.80%	OK				4.02	4.01	1.45
7	2.09	62.5	1.82	-12.92%	OK				4.02	4.01	1.47
8	2.10	62.4	1.86	-11.43%	OK				4.00	3.99	1.45
9	2.13	63.9	1.86	-12.68%	OK				4.00	3.98	1.45
10	2.09	63.2	1.88	-10.05%	OK				3.99	3.99	1.48
AVG.	2.093	63.386	1.842	-11.99%					4	3.994	1.443
R	0.06	3	0.08	3.41%					0.05	0.03	0.07

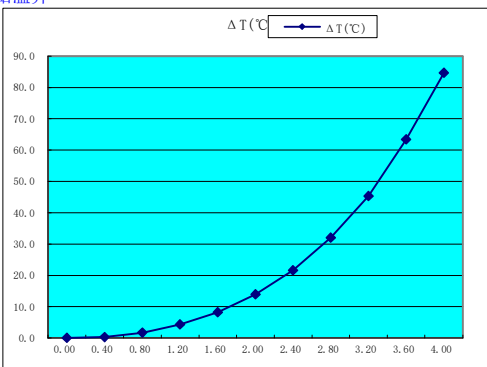
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	2.38	0.00%
1	0.40	2.38	0.00%
1	0.80	2.37	-0.42%
1	1.20	2.35	-1.26%
1	1.60	2.33	-2.10%
1	2.00	2.32	-2.52%
1	2.40	2.29	-3.78%
1	2.80	2.23	-6.30%
1	3.20	2.11	-11.34%
1	3.60	1.81	-23.95%
1	4.00	1.10	-53.78%



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TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	2.29	0.00%	23.4	0.0
30	0.40	2.29	0.00%	23.7	0.3
30	0.80	2.28	-0.44%	25.1	1.7
30	1.20	2.27	-0.87%	27.7	4.3
30	1.60	2.27	-0.87%	31.6	8.2
30	2.00	2.26	-1.31%	37.3	13.9
30	2.40	2.24	-2.18%	45.0	21.6
30	2.80	2.18	-4.80%	55.4	32.0
30	3.20	1.97	-13.97%	68.7	45.3
30	3.60	1.16	-49.34%	86.8	63.4
30	4.00	0.57	-75.11%	108.0	84.6



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PART NO. CKNR4015B Series

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TEST TEMP. 20~25°C

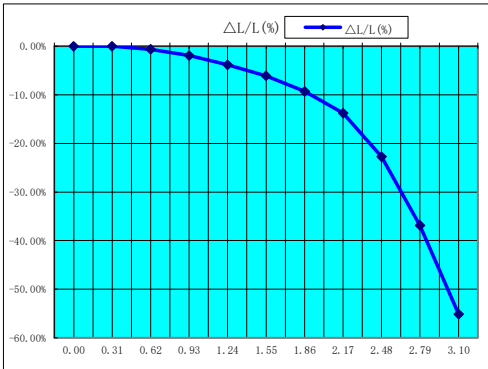
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MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm
SPEC.	3.3 ± 20%	111 Max.	2.20 Max.	ΔL/L≤-30%	2.20 ΔT≤40℃ ℃				上限 4.2 下限 3.8	4.2 3.8	1.5 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	3.26	85.4	2.76	-15.34%	OK				3.97	4.00	1.41
2	3.22	86.3	2.74	-14.91%	OK				3.97	4.01	1.40
3	3.21	85.5	2.70	-15.89%	OK				3.97	4.02	1.42
4	3.15	84.8	2.71	-13.97%	OK				3.98	4.03	1.40
5	3.19	84.2	2.74	-14.11%	OK				4.03	4.01	1.41
6	3.26	86.3	2.80	-14.11%	OK				4.00	4.00	1.40
7	3.23	86.3	2.83	-12.38%	OK				3.99	4.00	1.42
8	3.20	86.1	2.80	-12.50%	OK				4.02	4.00	1.45
9	3.18	86.5	2.79	-12.26%	OK				4.01	4.00	1.39
10	3.20	86.3	2.80	-12.50%	OK				4.02	4.02	1.45
AVG.	3.210	85.77	2.767	-13.80%					3.996	4.009	1.415
R	0.11	2.3	0.13	3.62%					0.06	0.03	0.06

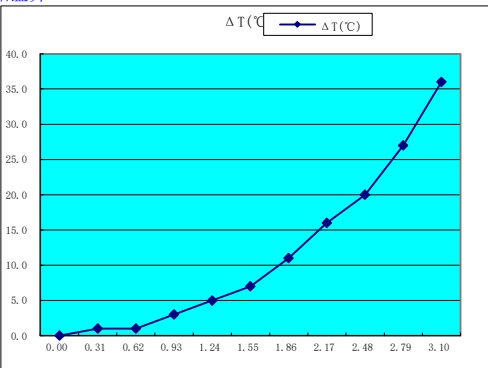
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	3.12	0.00%
1	0.31	3.12	0.00%
1	0.62	3.10	-0.64%
1	0.93	3.06	-1.92%
1	1.24	3.00	-3.85%
1	1.55	2.93	-6.09%
1	1.86	2.83	-9.29%
1	2.17	2.69	-13.78%
1	2.48	2.41	-22.76%
1	2.79	1.97	-36.86%
1	3.10	1.40	-55.13%



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TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(°C)	ΔT(°C)
30	0.00	3.24	0.00%	27.0	0.0
30	0.31	3.23	-0.31%	28.0	1.0
30	0.62	3.20	-1.23%	28.0	1.0
30	0.93	3.14	-3.09%	30.0	3.0
30	1.24	3.07	-5.25%	32.0	5.0
30	1.55	2.98	-8.02%	34.0	7.0
30	1.86	2.84	-12.35%	38.0	11.0
30	2.17	2.64	-18.52%	43.0	16.0
30	2.48	2.30	-29.01%	47.0	20.0
30	2.79	1.79	-44.75%	54.0	27.0
30	3.10	1.25	-61.42%	63.0	36.0



承 認 書



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CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR4015B-4R7MC

PART NO. CKNR4015B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

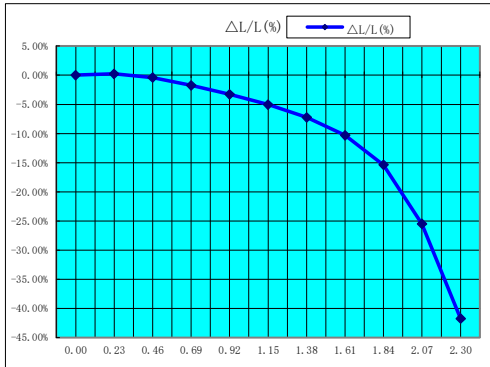
DATE 2025/2/13

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%	158 Max.	1.90 Max.	ΔL/L≤-30%	1.80 ΔT≤40℃ ℃				上限 4.2 下限 3.8	4.2 3.8	1.5 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	4.71	125	3.89	-17.41%	OK				4.00	3.99	1.42
2	4.55	121	3.88	-14.73%	OK				3.97	3.98	1.44
3	4.71	123	3.80	-19.32%	OK				3.99	3.99	1.45
4	4.78	121	3.86	-19.25%	OK				4.00	4.01	1.41
5	4.52	122	3.90	-13.72%	OK				4.01	3.99	1.41
6	4.56	123	3.85	-15.57%	OK				4.02	4.01	1.45
7	4.74	120	3.84	-18.99%	OK				4.02	4.01	1.47
8	4.76	121	3.82	-19.75%	OK				4.00	3.99	1.45
9	4.55	121	3.79	-16.70%	OK				4.00	3.98	1.45
10	4.53	125	3.80	-16.11%	OK				3.99	3.99	1.48
AVG.	4.641	122.2	3.843	-17.15%					4	3.994	1.443
R	0.26	5	0.11	6.03%					0.05	0.03	0.07

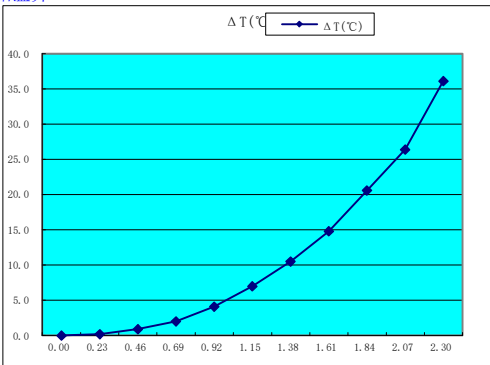
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	4.55	0.00%
1	0.23	4.56	0.22%
1	0.46	4.53	-0.44%
1	0.69	4.47	-1.76%
1	0.92	4.40	-3.30%
1	1.15	4.32	-5.05%
1	1.38	4.22	-7.25%
1	1.61	4.08	-10.33%
1	1.84	3.85	-15.38%
1	2.07	3.39	-25.49%
1	2.30	2.65	-41.76%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	4.520	0.00%	26.0	0.0
30	0.23	4.520	0.00%	26.2	0.2
30	0.46	4.510	-0.22%	26.9	0.9
30	0.69	4.470	-1.11%	28.0	2.0
30	0.92	4.420	-2.21%	30.1	4.1
30	1.15	4.350	-3.76%	33.0	7.0
30	1.38	4.250	-5.97%	36.5	10.5
30	1.61	4.090	-9.51%	40.8	14.8
30	1.84	3.810	-15.71%	46.6	20.6
30	2.07	3.330	-26.33%	52.4	26.4
30	2.30	2.620	-42.04%	62.1	36.1



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR4015B-6R8MC

PART NO. CKNR4015B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25°C

DATE 2025/2/13

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.	6.8 ± 20%	215 Max.	1.60 Max.	△L/L≤-30%	1.50 ΔT≤40℃ ℃			上限 下限	4.2 3.8	4.2 3.8	1.5 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	6.61	167	5.64	-14.67%	OK				4.00	3.99	1.42
2	6.23	169	5.48	-12.04%	OK				3.97	3.98	1.44
3	6.21	166	5.38	-13.37%	OK				3.99	3.99	1.45
4	6.20	168	5.29	-14.68%	OK				4.00	4.01	1.41
5	6.27	164	5.35	-14.67%	OK				4.01	3.99	1.41
6	6.45	168	5.35	-17.05%	OK				4.02	4.01	1.45
7	6.13	164	5.25	-14.36%	OK				4.02	4.01	1.47
8	6.20	167	5.35	-13.71%	OK				4.00	3.99	1.45
9	6.24	166	5.39	-13.62%	OK				4.00	3.98	1.45
10	6.25	161	5.38	-13.92%	OK				3.99	3.99	1.48
AVG.	6.279	166	5.386	-14.21%					4	3.994	1.443
R	0.48	8	0.39	5.02%					0.05	0.03	0.07

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	6.20	0.00%
1	0.24	6.22	0.32%
1	0.48	6.19	-0.16%
1	0.72	6.13	-1.13%
1	0.96	6.06	-2.26%
1	1.20	5.99	-3.39%
1	1.44	5.90	-4.84%
1	1.68	5.76	-7.10%
1	1.92	5.45	-12.10%
1	2.16	4.55	-26.61%
1	2.40	3.08	-50.32%

單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(°C)	ΔT(°C)
30	0.00	6.13	0.00%	21.0	0.0
30	0.24	6.12	-0.16%	21.0	0.0
30	0.47	6.07	-0.98%	22.0	1.0
30	0.71	6.01	-1.96%	24.0	3.0
30	0.94	5.94	-3.10%	27.0	6.0
30	1.18	5.86	-4.40%	30.0	9.0
30	1.41	5.75	-6.20%	36.0	15.0
30	1.65	5.55	-9.46%	42.0	21.0
30	1.88	5.09	-16.97%	51.0	30.0
30	2.12	4.07	-33.61%	61.0	40.0
30	2.35	2.27	-62.97%	74.0	53.0

承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR4015B-100MC

PART NO. CKNR4015B Series

DRAWN NO.

TEST R.H. 80~85%

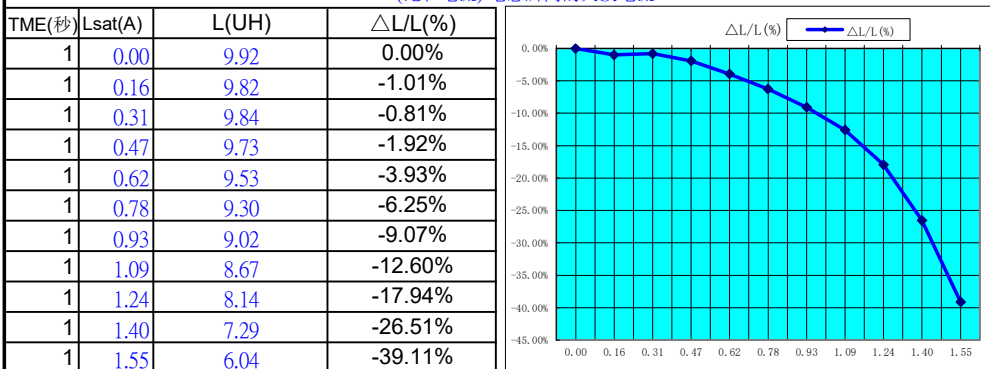
TEST TEMP. 20~25℃

DATE 2025/2/13

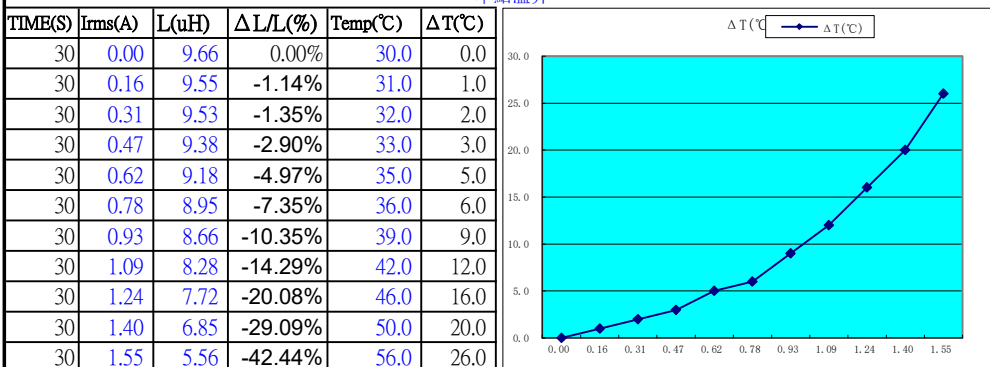
TEST DATA FOR PREPRODUCTION SAMPLE

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%	338 Max.	1.00 Max.	ΔL/L≤-30%	1.00 ΔT≤40℃ ℃			上限 下限	4.2 3.8	4.2 3.8 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	10.2	229	9.00	-11.76%	OK			4.00	3.99	1.42
2	10.1	233	9.25	-8.42%	OK			3.97	3.98	1.44
3	10.1	231	9.15	-9.41%	OK			3.99	3.99	1.45
4	10.1	232	9.26	-8.32%	OK			4.00	4.01	1.41
5	10.2	235	9.20	-9.80%	OK			4.01	3.99	1.41
6	10.1	235	9.15	-9.41%	OK			4.02	4.01	1.45
7	10.0	229	9.14	-8.60%	OK			4.02	4.01	1.47
8	10.0	234	9.10	-9.00%	OK			4.00	3.99	1.45
9	10.1	230	9.10	-9.90%	OK			4.00	3.98	1.45
10	10.2	228	9.20	-9.80%	OK			3.99	3.99	1.48
AVG.	10.110	231.6	9.155	-9.44%				4	3.994	1.443
R	0.2	7	0.26	3.45%				0.05	0.03	0.07

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: CKNR4015B-150MC

PART NO. CKNR4015B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

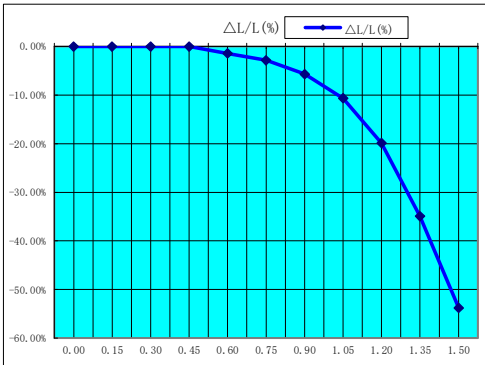
DATE 2025/2/13

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%	370 Max.	0.90 Max.	ΔL/L≤-30%	0.90 ΔT≤40℃ ℃				上限 下限	4.2 3.8	4.2 3.8 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	14.2	304	12.1	-14.79%	OK				4.00	3.99	1.42
2	14.2	305	12.1	-14.79%	OK				3.97	3.98	1.44
3	14.1	306	12.4	-12.06%	OK				3.99	3.99	1.45
4	14.1	306	12.5	-11.35%	OK				4.00	4.01	1.41
5	14.2	302	12.6	-11.27%	OK				4.01	3.99	1.41
6	14.3	305	12.8	-10.49%	OK				4.02	4.01	1.45
7	14.2	306	12.4	-12.68%	OK				4.02	4.01	1.47
8	14.2	306	12.5	-11.97%	OK				4.00	3.99	1.45
9	14.1	305	12.6	-10.64%	OK				4.00	3.98	1.45
10	14.2	304	12.6	-11.27%	OK				3.99	3.99	1.48
AVG.	14.180	304.9	12.46	-12.13%					4	3.994	1.443
R	0.2	4	0.7	4.30%					0.05	0.03	0.07

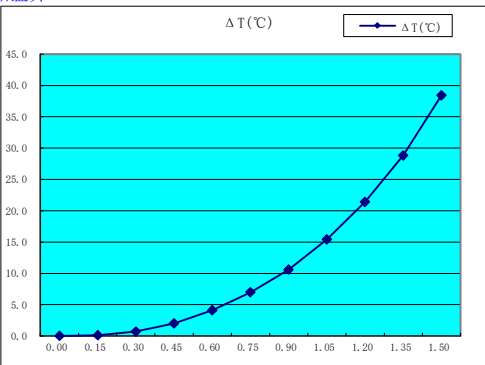
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	14.1	0.00%
1	0.15	14.1	0.00%
1	0.30	14.1	0.00%
1	0.45	14.1	0.00%
1	0.60	13.9	-1.42%
1	0.75	13.7	-2.84%
1	0.90	13.3	-5.67%
1	1.05	12.6	-10.64%
1	1.20	11.3	-19.86%
1	1.35	9.18	-34.89%
1	1.50	6.52	-53.76%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	14.1	0.00%	18.4	0.0
30	0.15	14.1	0.00%	18.5	0.1
30	0.30	14.1	0.00%	19.1	0.7
30	0.45	14.0	-0.71%	20.4	2.0
30	0.60	13.9	-1.42%	22.5	4.1
30	0.75	13.7	-2.84%	25.4	7.0
30	0.90	13.2	-6.38%	29.0	10.6
30	1.05	12.2	-13.48%	33.8	15.4
30	1.20	10.0	-29.08%	39.8	21.4
30	1.35	6.82	-51.63%	47.2	28.8
30	1.50	4.44	-68.51%	56.8	38.4



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR4015B-220MC

PART NO. CKNR4015B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

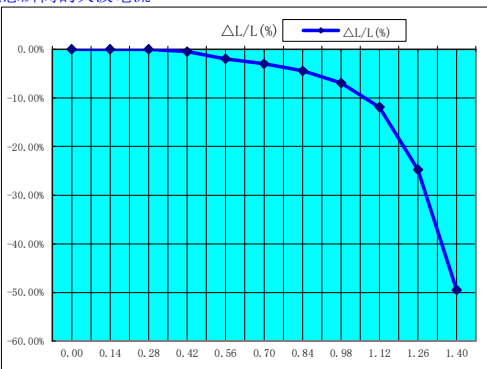
DATE 2025/2/13

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%	528 Max.	0.8 Max.	ΔL/L≤-30%	0.80 ΔT≤40℃ ℃				上限 4.2 下限 3.8	4.2 3.8	1.5 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	20.6	476	17.7	-14.1%	OK				3.99	4.00	1.40
2	21.6	470	17.0	-21.3%	OK				3.98	4.00	1.42
3	20.8	482	17.8	-14.4%	OK				4.02	4.02	1.41
4	20.6	470	18.0	-12.6%	OK				4.01	4.01	1.42
5	20.7	460	17.5	-15.5%	OK				4.01	4.01	1.42
6	21.5	477	17.6	-18.1%	OK				4.02	4.03	1.41
7	21.1	473	17.5	-17.1%	OK				3.98	3.99	1.41
8	21.9	464	17.5	-20.1%	OK				4.06	3.99	1.40
9	21.1	471	17.6	-16.6%	OK				4.05	4.01	1.40
10	21.7	471	17.4	-19.8%	OK				4.02	4.01	1.42
AVG.	21.160	471.4	17.56	-16.96%					4.014	4.007	1.411
R	1.3	22	1	8.67%					0.08	0.04	0.02

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	20.2	0.00%
1	0.14	20.2	0.00%
1	0.28	20.2	0.00%
1	0.42	20.1	-0.50%
1	0.56	19.8	-1.98%
1	0.70	19.6	-2.97%
1	0.84	19.3	-4.46%
1	0.98	18.8	-6.93%
1	1.12	17.8	-11.88%
1	1.26	15.2	-24.75%
1	1.40	10.2	-49.50%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	19.5	0.00%	24.4	0.0
30	0.14	19.5	0.00%	24.8	0.4
30	0.28	19.4	-0.51%	25.9	1.5
30	0.42	19.3	-1.03%	27.6	3.2
30	0.56	19.2	-1.54%	31.0	6.6
30	0.70	18.9	-3.08%	35.2	10.8
30	0.84	18.6	-4.62%	40.8	16.4
30	0.98	18.1	-7.18%	48.2	23.8
30	1.12	16.9	-13.33%	57.0	32.6
30	1.26	13.9	-28.72%	68.5	44.1
30	1.40	7.84	-59.79%	82.3	57.9

