

承 认 书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	13/Feb/2025	REVISION NO.	A
PART NO.	CKNR4010B 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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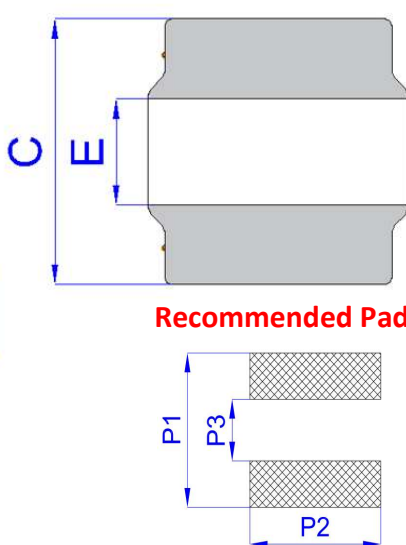
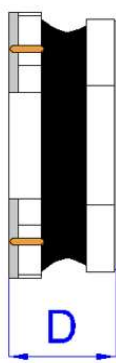
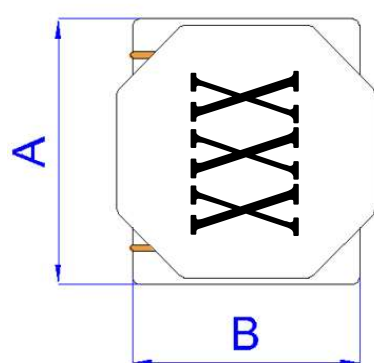


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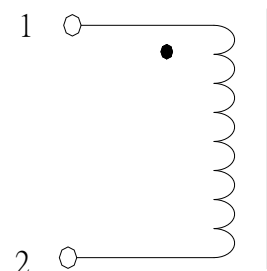
CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 1/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR4010B Series	DATE	2025/2/13

1.SHAPE & DIMENSION

UNIT: mm



SCHEMATICS



MARKING
COLOR

BLACK

A	B	C	D	E	P1	P2	P3
4	4	4	0.9	1.4	4.0	3.7	1.6
±0.2	±0.2	±0.2	±0.1	±0.2	Ref.	Ref.	Ref.

PART NUMBERING SYSTEM

CK NR 4010 B - 2R2 M C
1 2 3 4 5 6 7

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

APPROVED BY	CHECKED BY	DRAFT BY
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DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR4010B Series	DATE	2025/2/13

2.SERIES SPECIFICATION

◆ CKNR4010B Series Specification:

Part Number	Inductance	Test Freq	DCR (mΩ)		Saturation Current (A)		Temp. Rise Current (A)	
	(μH)	(Hz)	Max	Typ	Max	Typ	Max	Typ
CKNR4010B-1R0YC	1.00	100KHz/1V	83	66	2.70	3.00	2.90	3.30
CKNR4010B-2R2MC	2.20	100KHz/1V	143	110	1.80	1.90	1.90	2.10
CKNR4010B-3R3MC	3.30	100KHz/1V	160	123	1.55	1.75	1.75	1.90
CKNR4010B-4R7MC	4.70	100KHz/1V	240	200	1.30	1.50	1.50	1.70
CKNR4010B-6R8MC	6.80	100KHz/1V	360	280	1.15	1.30	1.30	1.50
CKNR4010B-8R2MC	8.20	100KHz/1V	396	328	1.00	1.15	1.35	1.50
CKNR4010B-100MC	10.0	100KHz/1V	480	392	0.80	0.90	1.00	1.10
CKNR4010B-150MC	15.0	100KHz/1V	612	510	0.70	0.85	0.90	1.00
CKNR4010B-220MC	22.0	100KHz/1V	1021	785	0.55	0.70	0.50	0.75
CKNR4010B-470MC	47.0	100KHz/1V	2018	1552	0.40	0.45	0.30	0.50

◆ 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 CKNR4010B 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	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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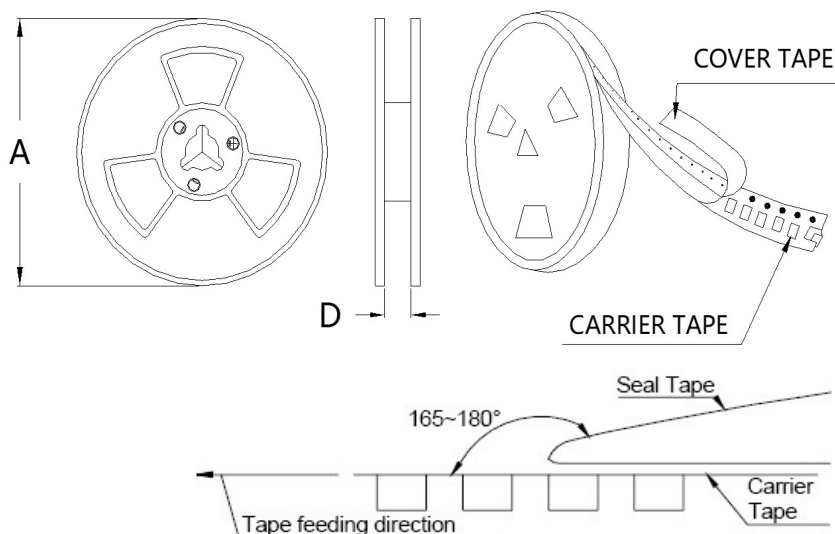
4.PACKAGING(unit: mm)

1.包装类型

2.包装尺寸

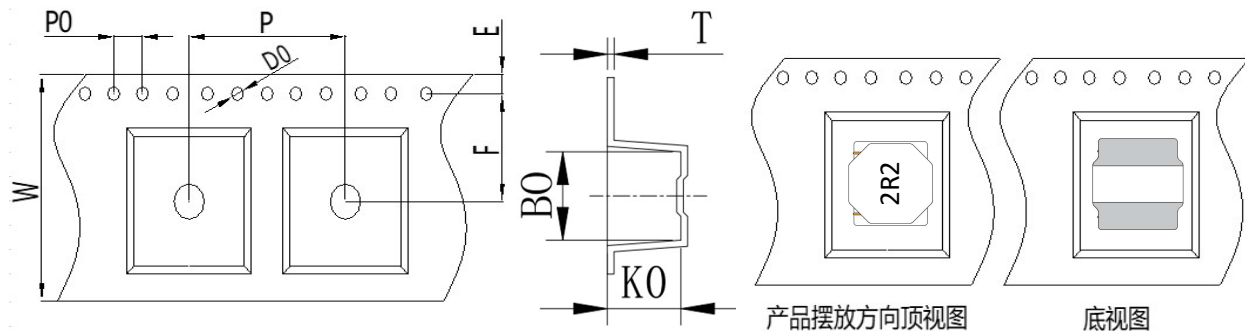
13" 盘

7" 盘



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

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



Item	W	B0	P	T	E	F	D0	P0	K0	
DIM(mm)	12.0±0.3	4.4±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	1.35±0.1	

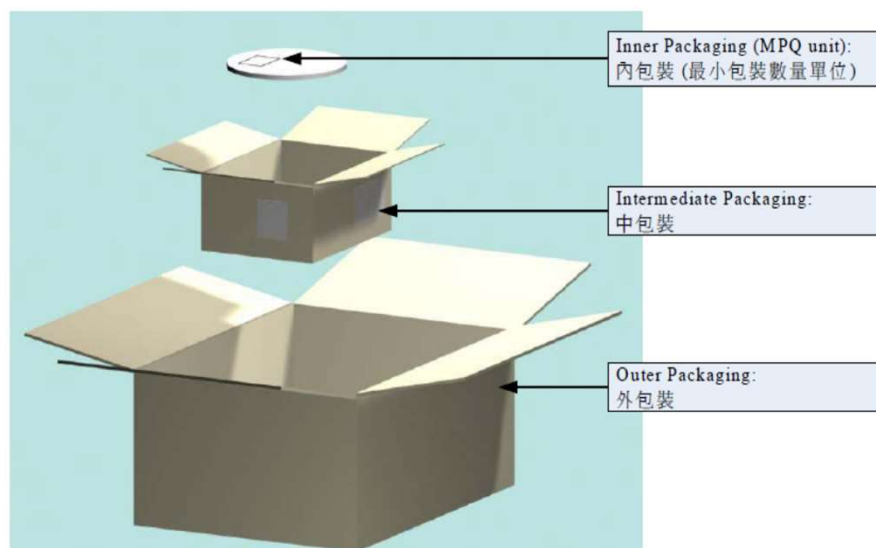
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5. CARTON



- 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	4500	PCS
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外箱包装数量

每箱	10	卷,共	45000	PCS
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内箱包装数量

每箱	5	卷,共	22500	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

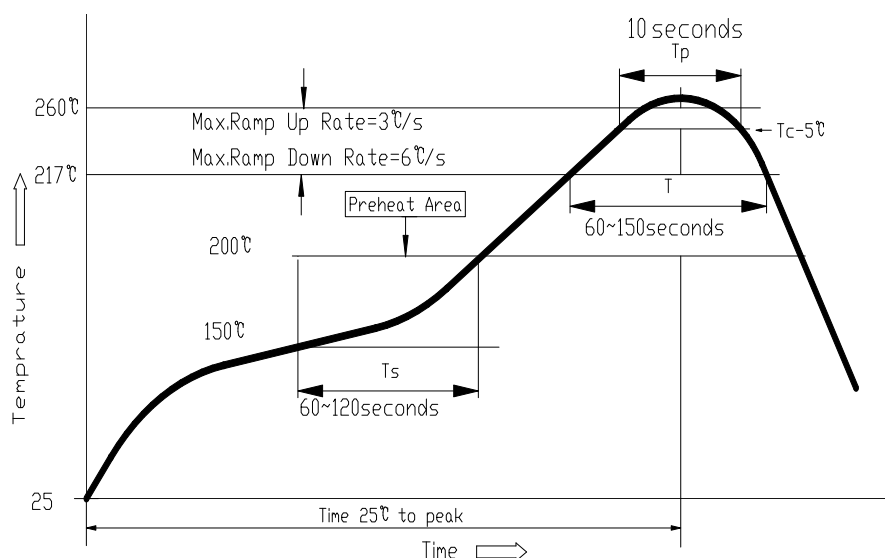
Applicable soldering process to the products is refl.

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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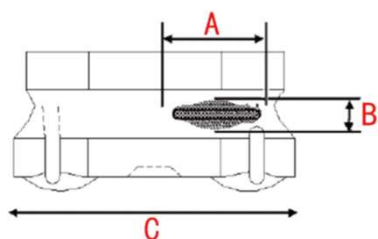


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8.Appearance of the standard

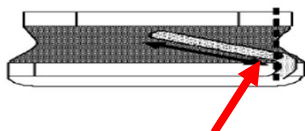
1.Void appearance tolerance limit



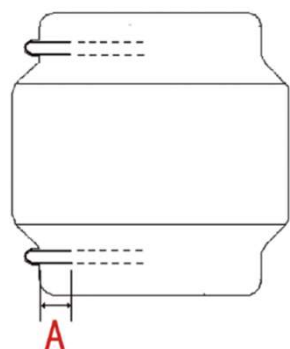
Size of voids occurring to coating resin is specified below.

- 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'S P/N

JINKAI P/N: CKNR4010B-1R0YC

PART NO. CKNR4010B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25°C

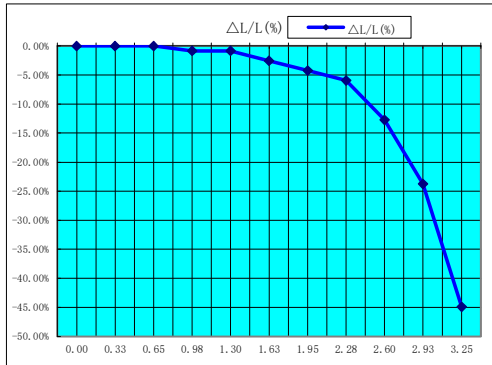
DATE 2025/2/13

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION								DIMENSION (Unit : mm)				
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm	
SPEC.	1.0	83	2.50	ΔL/L≤-30%	2.20				上限	4.2	4.2	1.0
	± 30%	Max.	Max.		ΔT≤40℃				下限	3.8	3.8	MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	1.21	62.7	1.00	-17.36%	OK				4.01	4.03	0.98	
2	1.21	67.7	0.99	-18.18%	OK				4.00	4.03	0.98	
3	1.18	66.5	0.98	-16.95%	OK				4.00	4.01	0.95	
4	1.18	63.0	0.96	-18.64%	OK				4.00	4.03	0.97	
5	1.20	67.3	0.99	-17.50%	OK				4.00	4.03	0.97	
6	1.19	67.2	0.95	-20.17%	OK				4.02	3.98	0.99	
7	1.18	66.4	0.95	-19.49%	OK				4.01	3.99	0.98	
8	1.25	65.4	1.01	-19.20%	OK				4.10	4.00	0.97	
9	1.19	67.6	1.00	-15.97%	OK				3.99	4.00	0.97	
10	1.22	68.2	0.99	-18.85%	OK				4.03	4.03	0.98	
AVG.	1.201	66.2	0.982	-18.23%					4.016	4.013	0.974	
R	0.07	5.5	0.06	4.20%					0.11	0.05	0.04	

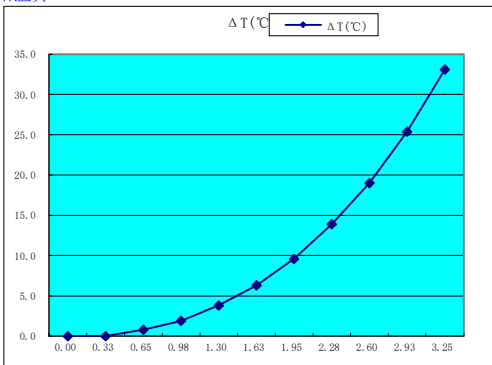
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	1.18	0.00%
1	0.33	1.18	0.00%
1	0.65	1.18	0.00%
1	0.98	1.17	-0.85%
1	1.30	1.17	-0.85%
1	1.63	1.15	-2.54%
1	1.95	1.13	-4.24%
1	2.28	1.11	-5.93%
1	2.60	1.03	-12.71%
1	2.93	0.90	-23.73%
1	3.25	0.65	-44.92%



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TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(°C)	ΔT(°C)
30	0.00	1.16	0.00%	24.5	0.0
30	0.33	1.16	0.00%	24.5	0.0
30	0.65	1.15	-0.86%	25.3	0.8
30	0.98	1.14	-1.72%	26.4	1.9
30	1.30	1.13	-2.59%	28.3	3.8
30	1.63	1.12	-3.45%	30.8	6.3
30	1.95	1.09	-6.03%	34.1	9.6
30	2.28	1.06	-8.62%	38.4	13.9
30	2.60	0.97	-16.38%	43.5	19.0
30	2.93	0.83	-28.45%	49.9	25.4
30	3.25	0.60	-48.28%	57.6	33.1



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JINKAI P/N: CKNR4010B-2R2MC

PART NO. CKNR4010B Series

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TEST R.H. 80~85%

TEST TEMP. 20~25℃

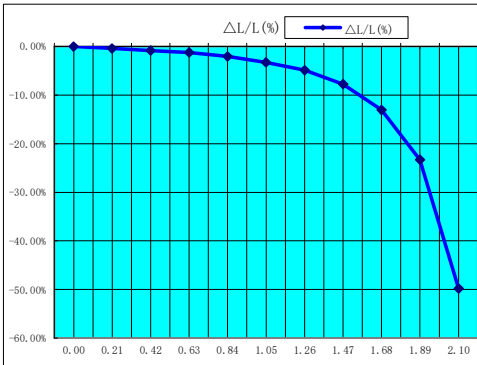
DATE 2025/2/13

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%	143 Max.	1.60 Max.	ΔL/L≤-30%	1.40 ΔT≤40℃ ℃				上限 下限	4.2 3.8	4.2 3.8 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	2.15	112	1.93	-10.23%	OK				4.01	4.02	0.98
2	2.13	109	1.92	-9.86%	OK				3.99	4.05	0.97
3	2.06	110	1.85	-10.19%	OK				4.03	4.04	0.99
4	2.09	111	1.88	-10.05%	OK				4.02	4.04	1.00
5	2.15	109	1.84	-14.42%	OK				4.02	4.04	1.00
6	2.16	119	1.88	-12.96%	OK				4.01	4.03	0.98
7	2.10	108	1.90	-9.52%	OK				4.03	3.99	0.96
8	2.17	118	1.85	-14.75%	OK				4.00	3.99	0.96
9	2.14	110	1.84	-14.02%	OK				4.00	4.00	0.98
10	2.15	109	1.82	-15.35%	OK				4.03	4.00	0.99
AVG.	2.130	111.5	1.871	-12.14%					4.014	4.02	0.981
R	0.11	11	0.11	5.83%					0.04	0.06	0.04

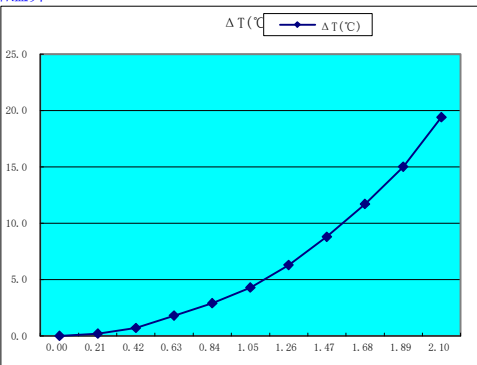
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	2.45	0.00%
1	0.21	2.44	-0.41%
1	0.42	2.43	-0.82%
1	0.63	2.42	-1.22%
1	0.84	2.40	-2.04%
1	1.05	2.37	-3.27%
1	1.26	2.33	-4.90%
1	1.47	2.26	-7.76%
1	1.68	2.13	-13.06%
1	1.89	1.88	-23.27%
1	2.10	1.23	-49.80%



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TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	2.30	0.00%	28.3	0.0
30	0.21	2.29	-0.43%	28.5	0.2
30	0.42	2.27	-1.30%	29.0	0.7
30	0.63	2.24	-2.61%	30.1	1.8
30	0.84	2.22	-3.48%	31.2	2.9
30	1.05	2.19	-4.78%	32.6	4.3
30	1.26	2.14	-6.96%	34.6	6.3
30	1.47	2.07	-10.00%	37.1	8.8
30	1.68	1.94	-15.65%	40.0	11.7
30	1.89	1.73	-24.78%	43.3	15.0
30	2.10	1.36	-40.87%	47.7	19.4



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CUSTOMER'S P/N

JINKAI P/N: CKNR4010B-3R3MC

PART NO. CKNR4010B 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.	3.3 ± 20%	160 Max.	1.50 Max.	ΔL/L≤-30%	1.30 ΔT≤40℃ ℃				上限 下限	4.2 3.8	4.2 3.8	1.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	3.14	123	2.59	-17.52%	OK				4.02	4.00	0.95	
2	3.13	124	2.54	-18.85%	OK				3.99	3.99	0.99	
3	3.06	123	2.52	-17.65%	OK				4.03	4.04	0.97	
4	3.00	130	2.50	-16.67%	OK				4.01	3.99	0.97	
5	3.06	126	2.49	-18.63%	OK				4.00	4.03	0.97	
6	3.17	125	2.60	-17.98%	OK				3.99	4.00	0.98	
7	3.04	123	2.61	-14.14%	OK				4.03	4.03	0.96	
8	3.18	122	2.58	-18.87%	OK				4.05	4.02	0.98	
9	3.12	121	2.52	-19.23%	OK				4.04	4.03	0.98	
10	3.07	122	2.54	-17.26%	OK				4.02	4.01	0.97	
AVG.	3.097	123.9	2.549	-17.68%					4.018	4.014	0.972	
R	0.18	9	0.12	5.09%					0.06	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	3.13	0.00%
1	0.19	3.14	0.32%
1	0.38	3.13	0.00%
1	0.57	3.12	-0.32%
1	0.76	3.10	-0.96%
1	0.95	3.06	-2.24%
1	1.14	3.00	-4.15%
1	1.33	2.89	-7.67%
1	1.52	2.68	-14.38%
1	1.71	2.30	-26.52%
1	1.90	1.67	-46.65%

單點溫昇					
TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	3.02	0.00%	30.0	0.0
30	0.19	3.00	-0.66%	30.0	0.0
30	0.38	3.01	-0.33%	30.0	0.0
30	0.57	3.01	-0.33%	31.0	1.0
30	0.76	2.99	-0.99%	31.0	1.0
30	0.95	2.95	-2.32%	33.0	3.0
30	1.14	2.89	-4.30%	35.0	5.0
30	1.33	2.77	-8.28%	37.0	7.0
30	1.52	2.42	-19.87%	40.0	10.0
30	1.71	2.16	-28.48%	43.0	13.0
30	1.90	1.56	-48.34%	50.0	20.0

承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR4010B-4R7MC

PART NO. CKNR4010B 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%	240 Max.	1.30 Max.	ΔL/L≤-30%	1.20 ΔT≤40℃ ℃				上限 下限	4.2 3.8	4.2 3.8	1.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	4.71	201	3.90	-17.20%	OK				4.02	4.02	0.94	
2	4.69	199	3.89	-17.06%	OK				4.03	4.05	0.96	
3	4.86	195	3.95	-18.72%	OK				4.02	4.01	0.94	
4	4.75	199	3.99	-16.00%	OK				4.03	4.03	0.94	
5	4.76	197	3.89	-18.28%	OK				4.02	4.03	0.97	
6	4.88	201	3.95	-19.06%	OK				4.01	3.99	0.97	
7	4.78	205	3.96	-17.15%	OK				4.01	4.01	0.98	
8	4.90	205	3.93	-19.80%	OK				4.00	4.02	0.99	
9	4.82	200	3.90	-19.09%	OK				4.00	4.01	0.98	
10	4.91	199	4.00	-18.53%	OK				4.05	4.04	0.96	
AVG.	4.806	200.1	3.936	-18.09%					4.019	4.021	0.963	
R	0.22	10	0.11	3.80%					0.05	0.06	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	4.59	0.00%
1	0.17	4.56	-0.65%
1	0.34	4.54	-1.09%
1	0.51	4.54	-1.09%
1	0.68	4.50	-1.96%
1	0.85	4.42	-3.70%
1	1.02	4.14	-9.80%
1	1.19	3.97	-13.51%
1	1.36	3.68	-19.83%
1	1.53	2.97	-35.29%
1	1.70	2.22	-51.63%

單點溫昇					
TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	4.50	0.00%	31.0	0.0
30	0.17	4.53	0.67%	31.0	0.0
30	0.34	4.50	0.00%	31.0	0.0
30	0.51	4.47	-0.67%	33.0	2.0
30	0.68	4.38	-2.67%	34.0	3.0
30	0.85	4.26	-5.33%	36.0	5.0
30	1.02	4.09	-9.11%	39.0	8.0
30	1.19	3.80	-15.56%	42.0	11.0
30	1.36	3.34	-25.78%	46.0	15.0
30	1.53	2.72	-39.56%	51.0	20.0
30	1.70	2.10	-53.33%	56.0	25.0

承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR4010B-6R8MC

PART NO. CKNR4010B Series

DRAWN NO.

TEST R.H. 80~85%

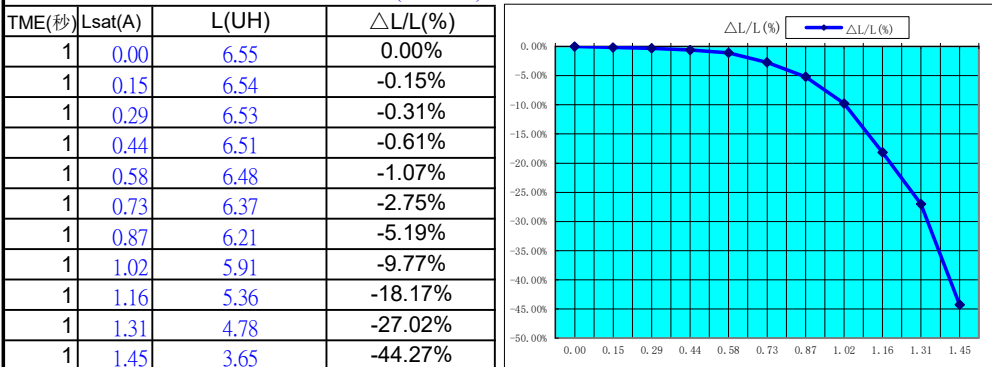
TEST TEMP. 20~25℃

DATE 2025/2/13

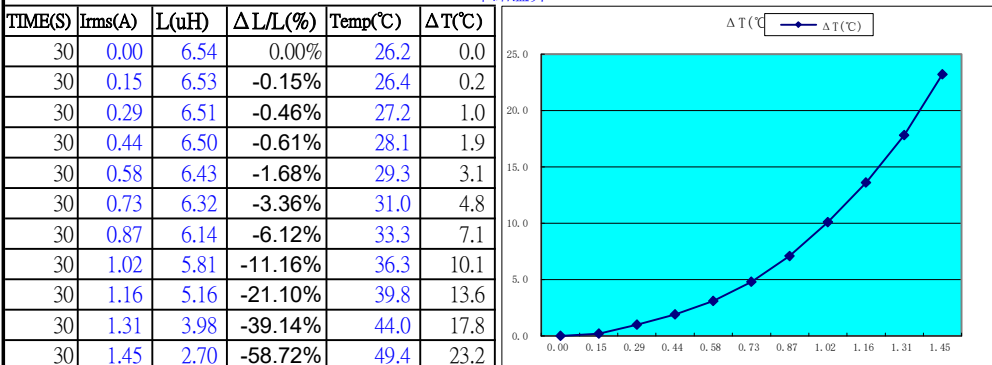
TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION								DIMENSION (Unit : mm)		
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A			長 mm	寬 mm	高 mm
SPEC.	6.8 ± 20%	360 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	7.01	284	5.44	-22.40%	OK			4.03	4.01	0.98
2	7.07	277	6.20	-12.31%	OK			4.02	4.04	0.97
3	7.23	285	6.01	-16.87%	OK			4.01	4.02	0.97
4	7.05	279	5.99	-15.04%	OK			4.03	4.03	0.97
5	6.97	282	5.95	-14.63%	OK			4.05	4.01	0.96
6	7.10	280	5.88	-17.18%	OK			4.05	4.01	0.98
7	7.04	281	5.95	-15.48%	OK			4.02	4.02	0.99
8	7.14	283	5.93	-16.95%	OK			4.01	4.05	0.98
9	7.17	281	6.01	-16.18%	OK			4.03	4.00	0.97
10	6.94	278	6.05	-12.82%	OK			4.03	4.00	0.97
AVG.	7.072	281	5.941	-15.99%				4.028	4.019	0.974
R	0.29	8	0.76	10.09%				0.04	0.05	0.03

Isat(飽和電流):電感瞬間的突波電流



單點溫昇



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR4010B-8R2MC

PART NO. CKNR4010B Series

DRAWN NO.

TEST R.H. 80~85%

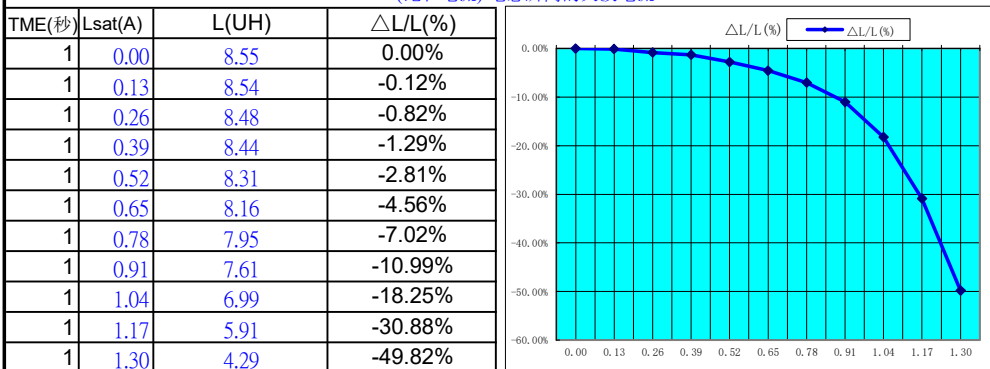
TEST TEMP. 20~25℃

DATE 2025/2/13

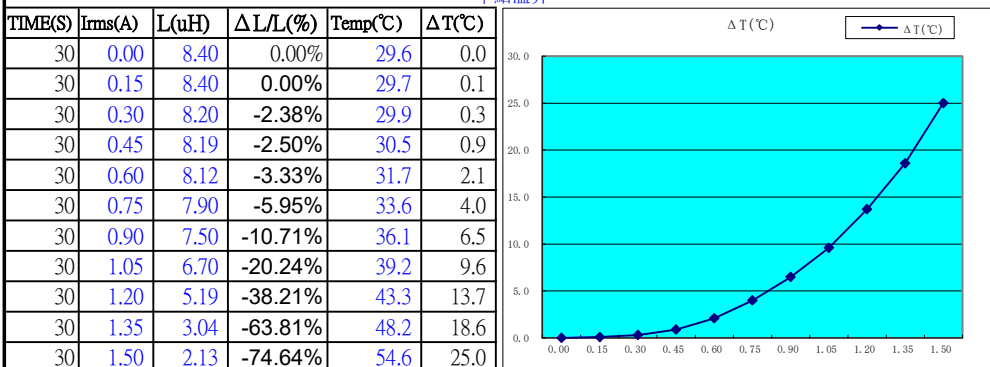
TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION							DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A			長 mm	寬 mm	高 mm
SPEC.	8.2 ± 20%	396 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	7.61	324	6.69	-12.09%	OK			4.04	4.05	0.98
2	7.34	331	6.69	-8.86%	OK			4.05	4.07	0.98
3	7.56	326	6.68	-11.64%	OK			3.98	4.00	0.96
4	7.60	326	6.69	-11.97%	OK			4.03	4.03	0.98
5	7.60	330	6.69	-11.97%	OK			4.03	4.05	0.98
6	7.74	332	6.97	-9.95%	OK			4.04	4.05	0.98
7	7.52	325	6.86	-8.78%	OK			4.00	4.02	0.99
8	7.40	332	6.68	-9.73%	OK			4.02	4.02	1.00
9	7.60	325	6.69	-11.97%	OK			4.02	4.03	0.99
10	7.48	331	6.76	-9.63%	OK			4.04	3.99	0.95
AVG.	7.545	328.2	6.74	-10.66%				4.025	4.031	0.979
R	0.4	8	0.29	3.31%				0.07	0.08	0.05

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: CKNR4010B-100MC

PART NO. CKNR4010B 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	△L/L	Irms A				長 mm	寬 mm	高 mm
SPEC.	10.0 ± 20%	480 Max.	0.8 Max.	△L/L≤-30%	0.80 △T≤40℃ ℃				上限 4.2 下限 3.8	4.2 3.8	1.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	10.1	389	8.57	-15.1%	OK				4.03	4.01	0.93
2	10.1	387	8.62	-14.7%	OK				3.98	3.99	0.97
3	10.7	395	8.87	-17.1%	OK				3.99	4.00	0.97
4	9.91	389	8.54	-13.8%	OK				4.01	4.03	0.97
5	10.8	396	8.85	-18.1%	OK				4.04	4.01	0.96
6	10.6	395	9.02	-14.9%	OK				4.00	4.00	0.97
7	10.8	392	8.88	-17.8%	OK				4.00	4.02	0.96
8	10.9	393	8.95	-17.9%	OK				4.03	3.98	0.96
9	10.7	391	9.00	-15.9%	OK				4.05	3.99	0.99
10	10.4	398	8.91	-14.3%	OK				4.02	3.99	0.96
AVG.	10.501	392.5	8.821	-15.96%					4.015	4.002	0.964
R	0.99	11	0.48	4.23%					0.07	0.05	0.06

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	10.4	0.00%
1	0.10	10.4	0.00%
1	0.20	10.3	-0.96%
1	0.30	10.3	-0.96%
1	0.40	10.2	-1.92%
1	0.50	10.0	-3.85%
1	0.60	9.80	-5.77%
1	0.70	9.36	-10.00%
1	0.80	8.36	-19.62%
1	0.90	6.92	-33.46%
1	1.00	5.01	-51.83%

單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	9.56	0.00%	24.0	0.0
30	0.10	9.49	-0.73%	24.1	0.1
30	0.20	9.49	-0.73%	24.2	0.2
30	0.30	9.46	-1.05%	24.6	0.6
30	0.40	9.41	-1.57%	25.3	1.3
30	0.50	9.26	-3.14%	26.2	2.2
30	0.60	9.05	-5.33%	27.3	3.3
30	0.70	8.72	-8.79%	28.8	4.8
30	0.80	8.18	-14.44%	30.5	6.5
30	0.90	7.34	-23.22%	32.5	8.5
30	1.00	6.12	-35.98%	35.2	11.2

承 認 书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR4010B-150MC

PART NO. CKNR4010B Series

DRAWN NO.

TEST R.H. 80~85%

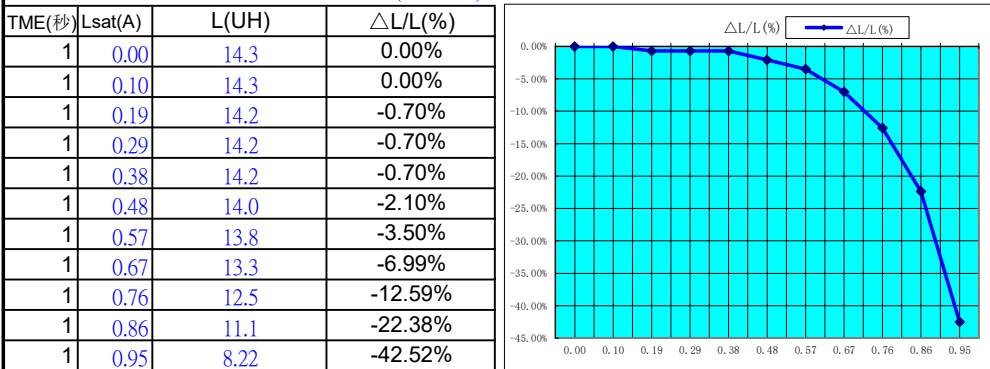
TEST TEMP. 20~25℃

DATE 2025/2/13

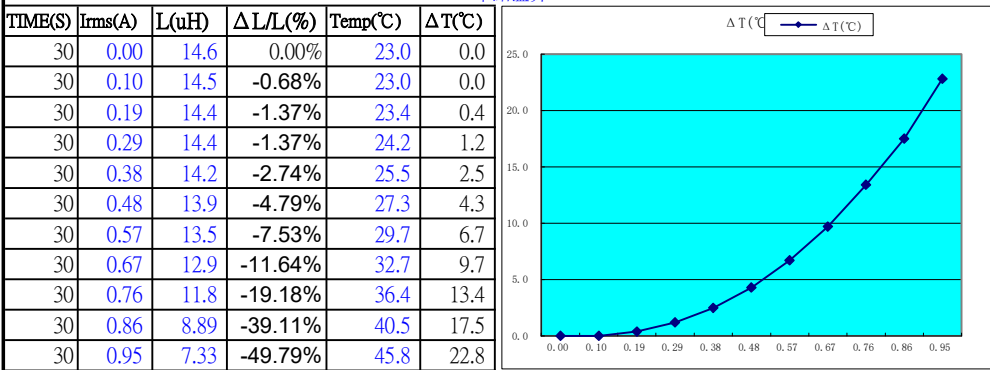
TEST DATA FOR PREPRODUCTION SAMPLE

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%	612 Max.	0.7 Max.	ΔL/L≤-30%	0.70 ΔT≤40℃ ℃				上限 下限	4.2 3.8	4.2 3.8 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	14.3	509	12.0	-16.08%	OK				4.03	4.01	0.93
2	14.4	506	12.0	-16.67%	OK				3.98	3.99	0.97
3	14.5	502	11.8	-18.62%	OK				3.99	4.00	0.97
4	14.6	514	11.9	-18.49%	OK				4.01	4.03	0.97
5	14.9	509	12.1	-18.79%	OK				4.04	4.01	0.96
6	14.6	510	12.0	-17.81%	OK				4.00	4.00	0.97
7	14.7	506	12.4	-15.65%	OK				4.00	4.02	0.96
8	14.3	514	11.8	-17.48%	OK				4.03	3.98	0.96
9	14.8	511	12.0	-18.92%	OK				4.05	3.99	0.99
10	14.5	518	11.9	-17.93%	OK				4.02	3.99	0.96
AVG.	14.560	509.9	11.99	-17.64%					4.015	4.002	0.964
R	0.6	16	0.6	3.27%					0.07	0.05	0.06

Isat(飽和電流):電感瞬間的突波電流



單點溫昇



承 認 书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR4010B-220MC

PART NO. CKNR4010B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

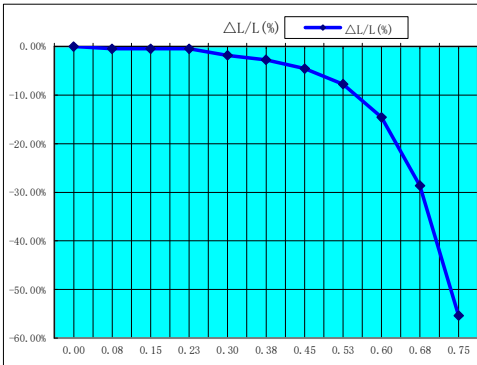
DATE 2025/2/13

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%	1021 Max.	0.55 Max.	ΔL/L≤-30%	0.50 ΔT≤40℃ ℃			上限 下限	4.2 3.8	4.2 3.8 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	21.7	776	18.6	-14.29%	OK			4.00	4.04	0.96
2	22.0	781	19.0	-13.64%	OK			3.99	4.01	0.97
3	21.6	773	18.2	-15.74%	OK			4.03	3.99	0.98
4	21.9	783	19.0	-13.24%	OK			4.01	4.02	0.98
5	21.7	800	18.2	-16.13%	OK			4.03	4.05	0.98
6	22.4	780	18.6	-16.96%	OK			4.40	3.99	0.97
7	21.8	782	19.0	-12.84%	OK			3.99	3.98	0.97
8	22.7	791	19.1	-15.86%	OK			4.05	4.02	0.99
9	21.7	800	18.4	-15.21%	OK			4.05	4.02	0.96
10	21.5	785	18.6	-13.49%	OK			4.01	4.02	0.98
AVG.	21.900	785.1	18.67	-14.74%				4.056	4.014	0.974
R	1.2	27	0.9	4.12%				0.41	0.07	0.03

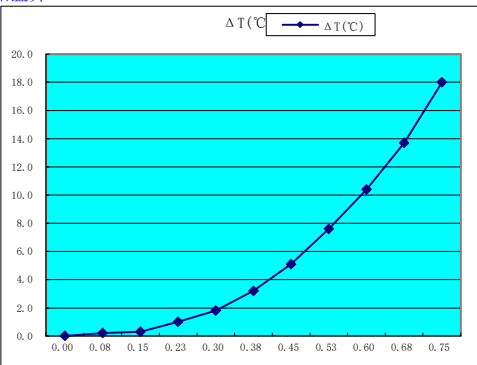
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	22.0	0.00%
1	0.08	21.9	-0.45%
1	0.15	21.9	-0.45%
1	0.23	21.9	-0.45%
1	0.30	21.6	-1.82%
1	0.38	21.4	-2.73%
1	0.45	21.0	-4.55%
1	0.53	20.3	-7.73%
1	0.60	18.8	-14.55%
1	0.68	15.7	-28.64%
1	0.75	9.82	-55.36%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	21.00	0.00%	31.0	0.0
30	0.08	20.90	-0.48%	31.2	0.2
30	0.15	20.90	-0.48%	31.3	0.3
30	0.23	20.80	-0.95%	32.0	1.0
30	0.30	20.60	-1.90%	32.8	1.8
30	0.38	20.20	-3.81%	34.2	3.2
30	0.45	19.60	-6.67%	36.1	5.1
30	0.53	18.70	-10.95%	38.6	7.6
30	0.60	17.30	-17.62%	41.4	10.4
30	0.68	15.00	-28.57%	44.7	13.7
30	0.75	11.80	-43.81%	49.0	18.0



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR4010B-470MC

PART NO. CKNR4010B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

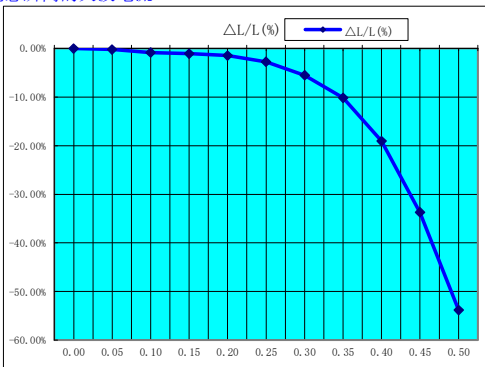
DATE 2025/2/13

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.	47.0 ± 20%	2018 Max.	0.25 Max.	ΔL/L≤-30%	0.30 ΔT≤40℃ ℃			上限 下限	4.2 3.8	4.2 3.8 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	44.9	1561	43.3	-3.56%	OK			4.03	4.02	0.95
2	43.8	1564	42.0	-4.11%	OK			4.00	4.03	0.98
3	44.6	1557	43.2	-3.14%	OK			4.05	4.03	0.96
4	44.5	1543	42.6	-4.27%	OK			4.03	4.01	0.97
5	43.7	1560	42.9	-1.83%	OK			4.03	4.03	0.97
6	44.4	1533	42.7	-3.83%	OK			4.04	4.00	0.98
7	44.6	1564	43.2	-3.14%	OK			4.00	4.03	0.98
8	44.8	1522	43.4	-3.13%	OK			4.00	3.99	0.96
9	44.3	1554	42.7	-3.61%	OK			4.00	3.99	0.96
10	44.2	1562	42.8	-3.17%	OK			4.02	4.02	0.97
AVG.	44.380	1552	42.88	-3.38%				4.02	4.015	0.968
R	1.2	42	1.4	2.44%				0.05	0.04	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	47.2	0.00%
1	0.05	47.1	-0.21%
1	0.10	46.8	-0.85%
1	0.15	46.7	-1.06%
1	0.20	46.5	-1.48%
1	0.25	45.9	-2.75%
1	0.30	44.6	-5.51%
1	0.35	42.4	-10.17%
1	0.40	38.2	-19.07%
1	0.45	31.3	-33.69%
1	0.50	21.8	-53.81%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	45.2	0.00%	30.0	0.0
30	0.05	45.1	-0.22%	30.1	0.1
30	0.10	44.7	-1.11%	30.2	0.2
30	0.15	44.2	-2.21%	30.7	0.7
30	0.20	44.1	-2.43%	31.7	1.7
30	0.25	43.1	-4.65%	32.8	2.8
30	0.30	41.6	-7.96%	34.6	4.6
30	0.35	39.0	-13.72%	36.5	6.5
30	0.40	34.7	-23.23%	39.0	9.0
30	0.45	28.1	-37.83%	41.7	11.7
30	0.50	20.4	-54.87%	45.1	15.1

