

承 认 书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	11/Feb/2025	REVISION NO.	A
PART NO.	CKNR3015B 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	
11/Feb/2025	11/Feb/2025	11/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

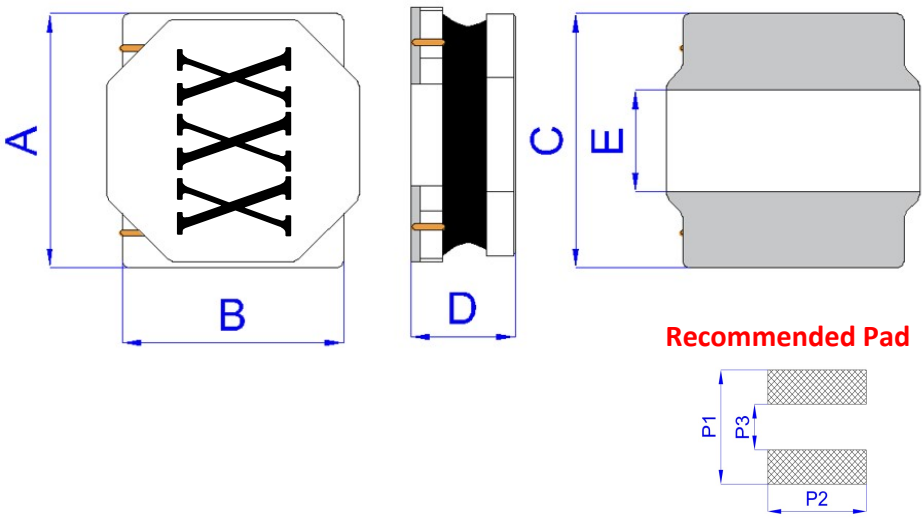
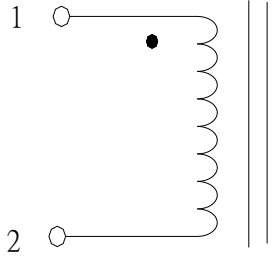
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DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR3015B Series	DATE	2025/2/11

1.SHAPE & DIMENSION

UNIT: mm						SCHEMATICS	
							
						MARKING COLOR	
						BLACK	

A	B	C	D	E	P1	P2	P3
3	3	3	1.5	1.25	3	2.7	1.4
±0.2	±0.2	±0.2	MAX	±0.2	Ref.	Ref.	Ref.

PART NUMBERING SYSTEM

CK	NR	3015	B	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						

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DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR3015B Series	DATE	2025/2/11

2.SERIES SPECIFICATION

◆ CKNR3015B Series

Specification:

Part Number	Inductance	Test Freq	DCR(mΩ)		Saturation Current (A)		Temp. Rise Current (A)	
	(μH)	(Hz)	Max	Typ	Max	Typ	Max	Typ
CKNR3015B-R47YC	0.47	100KHz/1V	40	32	4.47	4.60	3.40	4.80
CKNR3015B-1R0YC	1.00	100KHz/1V	48	32	2.10	3.00	2.10	2.70
CKNR3015B-1R5YC	1.50	100KHz/1V	65	41	1.80	2.47	1.82	2.00
CKNR3015B-2R2MC	2.20	100KHz/1V	72	58	1.60	2.00	1.50	2.00
CKNR3015B-3R3MC	3.30	100KHz/1V	104	90	1.21	1.70	1.23	1.60
CKNR3015B-4R7MC	4.70	100KHz/1V	162.5	121	1.02	1.40	1.09	1.30
CKNR3015B-6R8MC	6.80	100KHz/1V	230	187	0.87	1.10	0.88	1.10
CKNR3015B-100MC	10.0	100KHz/1V	325	251	0.72	0.95	0.77	0.90
CKNR3015B-150MC	15.0	100KHz/1V	432	388	0.56	0.88	0.56	0.72
CKNR3015B-220MC	22.0	100KHz/1V	624	557	0.47	0.60	0.47	0.60
CKNR3015B-330MC	33.0	100KHz/1V	1066	858	0.44	0.54	0.43	0.53
CKNR3015B-470MC	47.0	100KHz/1V	1608	1258	0.32	0.43	0.30	0.41
CKNR3015B-560MC	56.0	100KHz/1V	1980	1594	0.30	0.37	0.28	0.36
CKNR3015B-680MC	68.0	100KHz/1V	2400	1906	0.28	0.41	0.23	0.40
CKNR3015B-101MC	100	100KHz/1V	3200	2419	0.21	0.25	0.21	0.25

◆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 CKNR3015B Series size inductors, absolute maximum voltage: D 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	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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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	K0	
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	1.85±0.1	

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DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0																																		
PART NO.	CKNR3015B Series	DATE	2025/2/11																																		
5. CARTON																																					
Innei Packaging (MPQ unit): 内包装 (最小包装数量单位) Interm ediate Packaging: 中包装 Outer packaging: 外包装 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 外箱材質: A三A 1.4 内箱材質: 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 <table><tr><th colspan="3">卷轴包装数量</th></tr><tr><td>每卷</td><td>2000</td><td>PCS</td></tr></table><table><tr><th colspan="3">外箱包装数量</th></tr><tr><td>每箱</td><td>40 卷,共</td><td>80000 PCS</td></tr></table> <table><tr><td>APPROVED BY</td><td>CHECKED BY</td><td>DRAFT</td></tr><tr><td>黄大燕</td><td>黄大燕</td><td>林树英</td></tr></table> 广东今凯电子科技有限公司 GUANG DONG CHK ELECTRONIC TECH Co., Ltd <table><tr><td>CUSTOMER</td><td>0</td><td>REVISION NO.</td><td>A</td></tr><tr><td>CUSTOMER'S P/N</td><td>0</td><td>PAGE</td><td>P 6/8</td></tr><tr><td>DESCRIPTION.</td><td>SMD POWER INDUCTOR</td><td>DRAWN NO.</td><td>0</td></tr><tr><td>PART NO.</td><td>CKNR3015B Series</td><td>DATE</td><td>2025/2/11</td></tr></table>				卷轴包装数量			每卷	2000	PCS	外箱包装数量			每箱	40 卷,共	80000 PCS	APPROVED BY	CHECKED BY	DRAFT	黄大燕	黄大燕	林树英	CUSTOMER	0	REVISION NO.	A	CUSTOMER'S P/N	0	PAGE	P 6/8	DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0	PART NO.	CKNR3015B Series	DATE	2025/2/11
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6. RELIABILITY TEST

Test Items	Test Conditions	Criteria
1 Low temperature storage	Placed at -40℃ 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℃ 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℃,30min.~+125℃,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℃ 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℃, 10±1 sec, 2) 350±10℃, 3.5±0.5 sec	Inductance shall be within $\pm 10\%$ of the initial value. Apperance: No damage

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CHECKED BY

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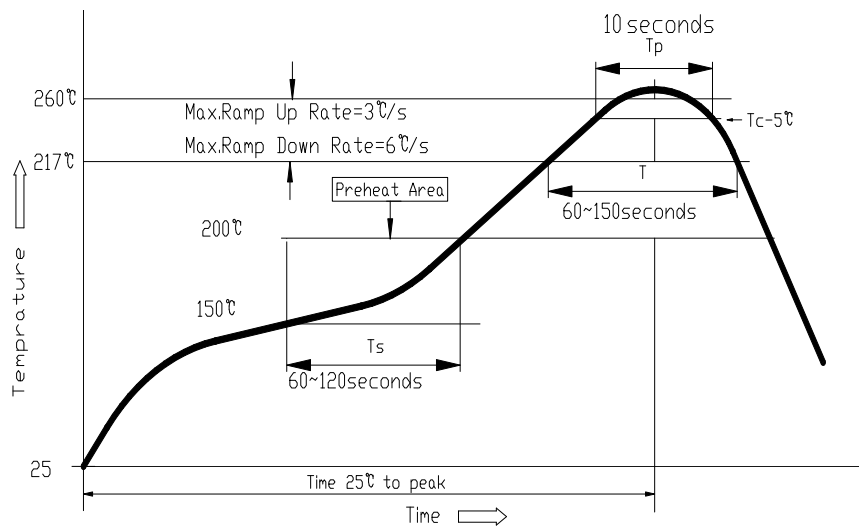
7. SOLDERING CONDITIONS

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℃ 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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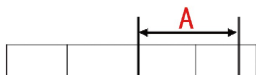
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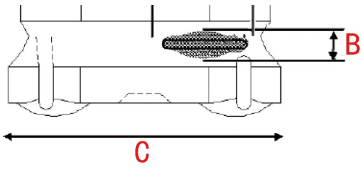
8.Appearance of the standard

1.Void appearance tolerance limit

Size of voids occurring to coating resin is specified below.

- ①Width direction(dimension A): Acceptable when A<=C/2

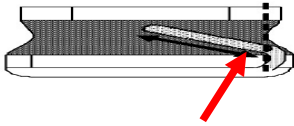




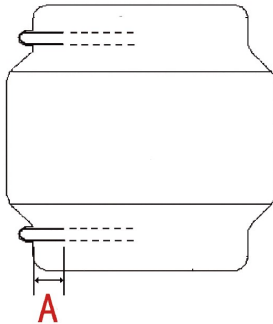
Nonconforming when $B \geq C/2$

- 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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SPECIFICATION FOR APPROVAL

CUSTOMER			
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JINKAI P/N:	CKNR3015B-1R0YC		TEST R.H. 80~85%
PART NO.	CKNR3015B Series		TEST TEMP. 20~25℃
DRAWN NO.			DATE 2025/2/11

TEST DATA FOR PREPRODUCTION SAMPLE												
TEST RESOLUTION								DIMENSION (Unit: mm)				
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm	
SPEC.	1.0 ± 30%	48 Max.	2.10 Max.	ΔL/L ≤ -30%	2.10 ΔT ≤ 40℃ ℃				上限 下限	3.2 2.8	3.2 2.8	1.5 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	0.93	32.0	0.75	-19.35%	OK					3.06	3.11	1.45
2	0.99	32.0	0.80	-19.19%	OK					3.03	3.09	1.46
3	1.02	32.0	0.80	-21.57%	OK					3.02	3.08	1.46
4	0.98	34.0	0.78	-20.41%	OK					3.05	3.09	1.47
5	0.97	34.0	0.78	-19.59%	OK					3.04	3.12	1.46
6	0.95	33.0	0.78	-17.89%	OK					3.05	3.02	1.48
7	0.93	31.0	0.78	-16.13%	OK					3.03	3.03	1.49
8	0.99	31.0	0.78	-21.21%	OK					3.08	3.01	1.46
9	0.98	32.0	0.80	-18.37%	OK					3.06	3.05	1.46
10	1.01	32.0	0.80	-20.79%	OK					3.04	3.06	1.48
AVG.	0.975	32.3	0.785	-19.45%						3.046	3.066	1.467
R	0.09	3	0.05	5.44%						0.06	0.11	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	1.01	0.00%
1	0.34	1.01	0.00%
1	0.67	1.00	-0.99%
1	1.01	0.99	-1.98%
1	1.34	0.97	-3.96%
1	1.68	0.95	-5.94%
1	2.02	0.92	-8.91%
1	2.35	0.88	-12.87%
1	2.69	0.80	-20.79%
1	3.02	0.68	-32.67%
1	3.36	0.48	-52.48%

ΔL/L(%)

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TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	0.94	0.00%	29.0	0.0
30	0.34	0.93	-1.06%	29.1	0.1
30	0.67	0.92	-2.13%	29.6	0.6
30	1.01	0.90	-4.26%	30.5	1.5
30	1.34	0.89	-5.32%	31.9	2.9
30	1.68	0.86	-8.51%	34.0	5.0
30	2.02	0.85	-9.57%	35.8	6.8
30	2.35	0.81	-13.83%	38.8	9.8
30	2.69	0.74	-21.28%	42.2	13.2
30	3.02	0.61	-35.11%	46.5	17.5
30	3.36	0.40	-57.45%	51.8	22.8

ΔT(℃)

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JINKAI P/N: CKNR3015B-1R5YC

PART NO. CKNR3015B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

DATE 2025/2/11

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION						DIMENSION (Unit: mm)			
MEAS. ITEM	L μH	DCR mΩ	Isat A	ΔL/L	Irms A				
SPEC.	1.5 ± 30%	65 Max.	1.80 Max.	ΔL/L ≤ -30%	1.82 ΔT ≤ 40℃ ℃			上限 下限	長 mm 寬 mm 高 mm
TEST FREQ.	100KHz/1V		100KHz/1V						
1	1.36	41.3	1.22	-10.29%	OK				3.13 3.07 1.48
2	1.32	41.1	1.21	-8.33%	OK				3.09 3.08 1.49
3	1.38	41.7	1.21	-12.32%	OK				3.15 3.08 1.48
4	1.33	41.6	1.21	-9.02%	OK				3.12 3.09 1.48
5	1.36	40.5	1.21	-11.03%	OK				3.10 3.09 1.49
6	1.37	41.2	1.23	-10.22%	OK				3.09 3.10 1.45
7	1.38	40.3	1.24	-10.14%	OK				3.10 3.03 1.48
8	1.34	40.5	1.21	-9.70%	OK				3.11 3.06 1.47
9	1.40	43.0	1.19	-15.00%	OK				3.02 3.08 1.49
10	1.36	41.5	1.13	-16.91%	OK				3.06 3.06 1.46
AVG.	1.360	41.27	1.206	-11.30%					3.097 3.074 1.477
R	0.08	2.7	0.11	8.58%					0.13 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	1.51	0.00%
1	0.24	1.53	1.32%
1	0.48	1.50	-0.66%
1	0.72	1.46	-3.31%
1	0.96	1.42	-5.96%
1	1.20	1.37	-9.27%
1	1.44	1.32	-12.58%
1	1.68	1.24	-17.88%
1	1.92	1.13	-25.17%
1	2.16	0.97	-35.76%
1	2.40	0.78	-48.34%

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TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	1.47	0.00%	33.0	0.0
30	0.24	1.47	0.00%	33.0	0.0
30	0.48	1.45	-1.36%	33.0	0.0
30	0.72	1.41	-4.08%	33.0	0.0
30	0.96	1.37	-6.80%	34.0	1.0
30	1.20	1.32	-10.20%	35.0	2.0
30	1.44	1.26	-14.29%	36.0	3.0
30	1.68	1.18	-19.73%	37.0	4.0
30	1.92	1.06	-27.89%	38.0	5.0
30	2.16	0.86	-41.50%	40.0	7.0
30	2.40	0.63	-57.14%	45.0	12.0

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SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3015B-2R2MC

PART NO. CKNR3015B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

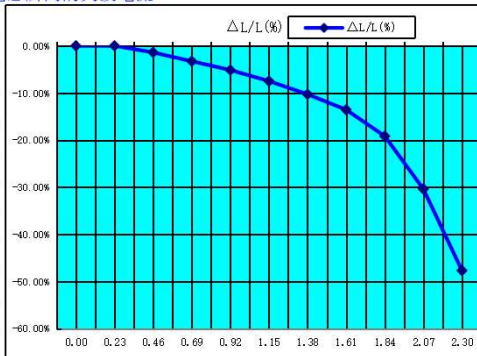
DATE 2025/2/11

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 ± 20%	72 Max.	1.48 Max.	ΔL/L ≤ -30%	1.50 ΔT ≤ 40℃ ℃				
TEST FREQ.	100KHz/1V		100KHz/1V						
1	1.93	57	1.70	-11.92%	OK			3.01	3.03
2	2.01	58	1.72	-14.43%	OK			2.98	3.05
3	2.00	57	1.73	-13.50%	OK			2.99	3.12
4	1.92	58	1.70	-11.46%	OK			3.05	3.01
5	1.89	58	1.68	-11.11%	OK			3.04	3.02
6	1.98	57	1.72	-13.13%	OK			3.06	3.05
7	1.98	56	1.69	-14.65%	OK			3.05	3.10
8	2.00	57	1.72	-14.00%	OK			3.01	3.00
9	1.94	58	1.73	-10.82%	OK			3.02	3.03
10	1.95	59	1.70	-12.82%	OK			3.03	3.06
AVG.	1.960	57.5	1.709	-12.78%				3.024	3.047
R	0.12	3	0.05	3.82%				0.08	0.12

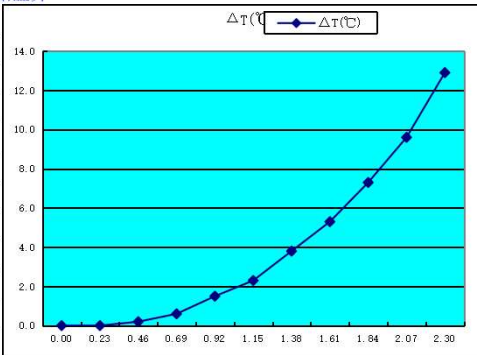
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	2.14	0.00%
1	0.23	2.14	0.00%
1	0.46	2.11	-1.40%
1	0.69	2.07	-3.27%
1	0.92	2.03	-5.14%
1	1.15	1.98	-7.48%
1	1.38	1.92	-10.28%
1	1.61	1.85	-13.55%
1	1.84	1.73	-19.16%
1	2.07	1.49	-30.37%
1	2.30	1.12	-47.66%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	2.13	0.00%	29.0	0.0
30	0.23	2.12	-0.47%	29.0	0.0
30	0.46	2.09	-1.88%	29.2	0.2
30	0.69	2.05	-3.76%	29.6	0.6
30	0.92	2.01	-5.63%	30.5	1.5
30	1.15	1.97	-7.51%	31.3	2.3
30	1.38	1.92	-9.86%	32.8	3.8
30	1.61	1.85	-13.15%	34.3	5.3
30	1.84	1.74	-18.31%	36.3	7.3
30	2.07	1.54	-27.70%	38.6	9.6
30	2.30	1.19	-44.13%	41.9	12.9



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SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3015B-3R3MC

PART NO. CKNR3015B Series

DRAWN NO.

TEST R.H. 80~85%

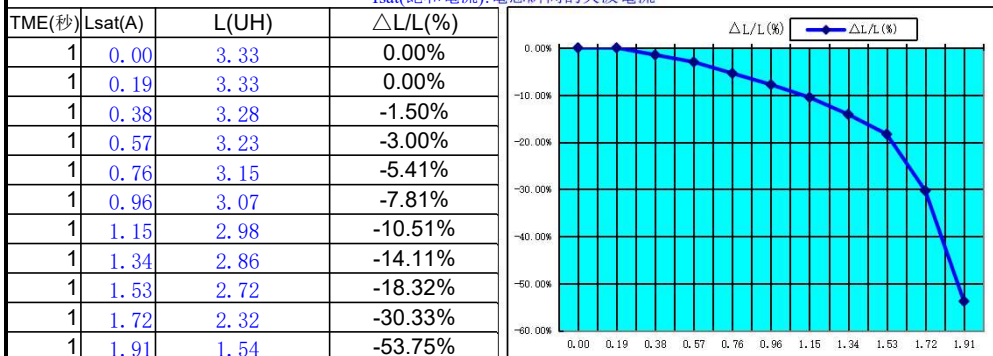
TEST TEMP. 20~25℃

DATE 2025/2/11

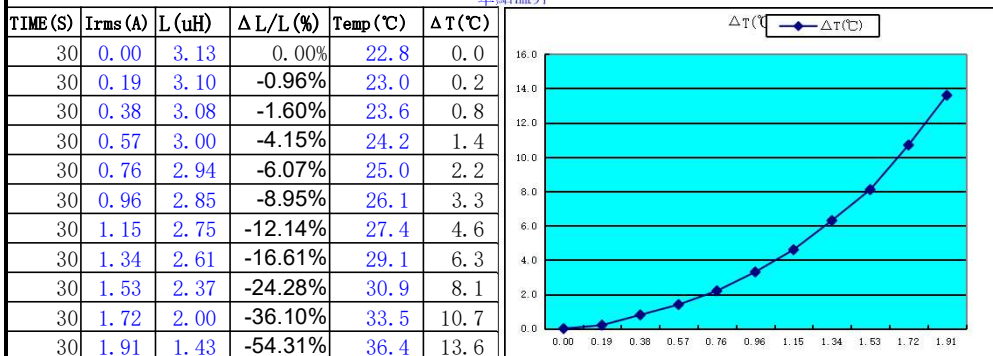
TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION						DIMENSION (Unit: mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				
SPEC.	3.3 ± 20%	104 Max.	1.21 Max.	ΔL/L ≤ -30%	1.23 ΔT ≤ 40℃ ℃			上限 下限	長 mm 寬 mm 高 mm
TEST FREQ.	100KHz/1V		100KHz/1V						
1	3.46	90	2.57	-25.72%	OK				3.02 3.05 1.40
2	3.36	91	2.63	-21.73%	OK				3.03 3.08 1.43
3	3.55	90	2.64	-25.63%	OK				3.01 3.07 1.42
4	3.49	88	2.63	-24.64%	OK				3.02 3.09 1.45
5	3.36	91	2.59	-22.92%	OK				3.04 3.07 1.42
6	3.45	90	2.65	-23.19%	OK				3.02 3.05 1.43
7	3.33	89	2.75	-17.42%	OK				3.03 3.12 1.45
8	3.41	92	2.64	-22.58%	OK				3.05 3.03 1.43
9	3.44	90	2.68	-22.09%	OK				3.06 3.02 1.45
10	3.54	88	2.59	-26.84%	OK				3.08 3.01 1.43
AVG.	3.439	89.9	2.637	-23.28%					3.036 3.059 1.431
R	0.22	4	0.18	9.42%					0.07 0.11 0.05

Isat(飽和電流):電感瞬間的突波電流



單點溫昇



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SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3015B-4R7MC

PART NO. CKNR3015B Series

DRAWN NO.

TEST R.H. 80~85%

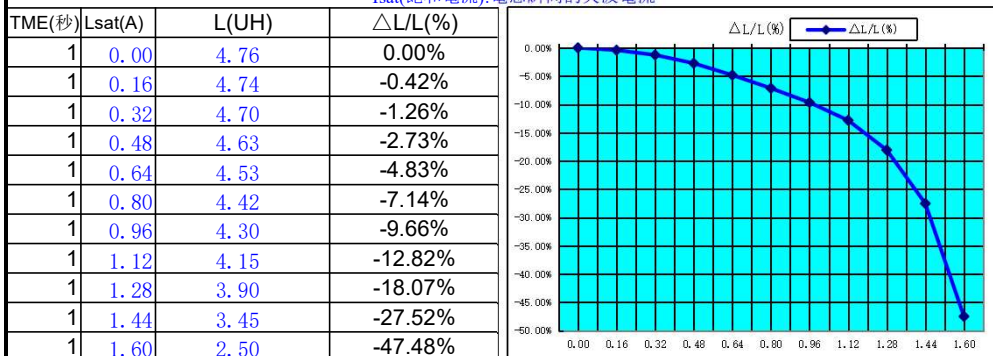
TEST TEMP. 20~25℃

DATE 2025/2/11

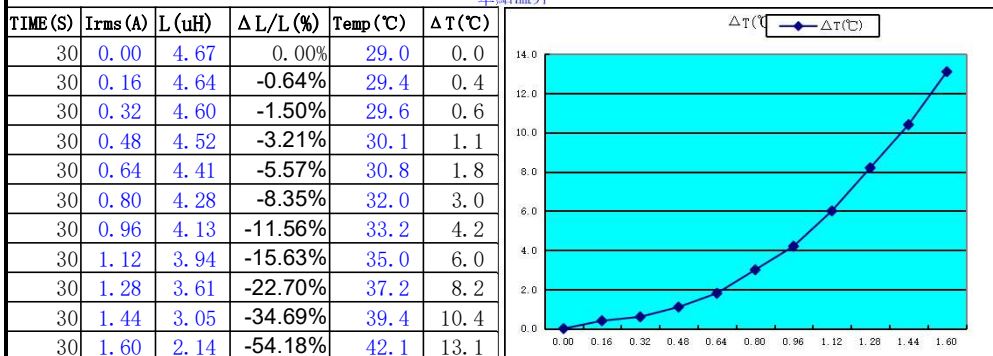
TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION						DIMENSION (Unit: mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				
SPEC.	4.7 ± 20%	162.5 Max.	1.02 Max.	ΔL/L ≤ -30%	1.09 ΔT ≤ 40℃ ℃			上限 下限	長 mm 寬 mm 高 mm
TEST FREQ.	100KHz/1V		100KHz/1V						
1	4.59	123	3.88	-15.47%	OK				3.05 3.03 1.41
2	4.68	122	3.83	-18.16%	OK				3.02 3.05 1.43
3	4.81	122	3.91	-18.71%	OK				3.04 3.03 1.45
4	4.54	122	3.87	-14.76%	OK				3.03 3.03 1.42
5	4.70	121	3.85	-18.09%	OK				3.05 3.05 1.43
6	4.64	119	3.84	-17.24%	OK				3.06 3.06 1.45
7	4.57	121	3.78	-17.29%	OK				3.02 3.01 1.48
8	4.57	119	3.73	-18.38%	OK				3.01 3.00 1.42
9	4.70	119	3.81	-18.94%	OK				3.03 3.05 1.43
10	4.73	123	3.80	-19.66%	OK				3.02 3.04 1.43
AVG.	4.653	121.1	3.83	-17.67%					3.033 3.035 1.435
R	0.27	4	0.18	4.90%					0.05 0.06 0.07

Isat(飽和電流):電感瞬間的突波電流



單點溫昇



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SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3015B-6R8MC

PART NO. CKNR3015B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

DATE 2025/2/11

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%	230 Max.	0.87 Max.	△L/L ≒ -30%	0.88 △T ≒ 40℃ ℃				上限 下限	3.2 2.8	3.2 2.8	1.5 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	7.01	183	5.88	-16.12%	OK					3.01	3.08	1.42
2	6.99	193	6.02	-13.88%	OK					3.04	3.09	1.43
3	7.03	186	6.06	-13.80%	OK					3.02	3.07	1.40
4	7.32	182	6.02	-17.76%	OK					3.05	3.11	1.45
5	7.13	189	6.03	-15.43%	OK					3.04	3.03	1.43
6	7.30	179	5.98	-18.08%	OK					3.06	3.03	1.41
7	7.24	183	5.96	-17.68%	OK					3.02	3.10	1.43
8	7.06	192	5.94	-15.86%	OK					3.03	3.09	1.42
9	7.03	190	5.99	-14.79%	OK					3.04	3.03	1.40
10	7.12	194	6.05	-15.03%	OK					3.03	3.05	1.46
AVG.	7.123	187.1	5.993	-15.84%						3.034	3.068	1.425
R	0.33	15	0.18	4.28%						0.05	0.08	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	6.71	0.00%
1	0.13	6.69	-0.30%
1	0.26	6.62	-1.34%
1	0.39	6.52	-2.83%
1	0.52	6.38	-4.92%
1	0.65	6.22	-7.30%
1	0.78	6.03	-10.13%
1	0.91	5.76	-14.16%
1	1.04	5.31	-20.86%
1	1.17	4.59	-31.59%
1	1.30	3.45	-48.58%

單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	6.84	0.00%	27.6	0.0
30	0.13	6.83	-0.15%	27.7	0.1
30	0.26	6.76	-1.17%	28.1	0.5
30	0.39	6.66	-2.63%	29.0	1.4
30	0.52	6.54	-4.39%	30.1	2.5
30	0.65	6.40	-6.43%	31.7	4.1
30	0.78	6.22	-9.06%	33.7	6.1
30	0.91	5.96	-12.87%	36.2	8.6
30	1.04	5.49	-19.74%	39.2	11.6
30	1.17	4.66	-31.87%	42.9	15.3
30	1.30	3.02	-55.85%	47.3	19.7

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SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3015B-100MC

PART NO. CKNR3015B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

DATE 2025/2/11

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION						DIMENSION (Unit: mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				
SPEC.	10.0 ± 20%	325 Max.	0.72 Max.	ΔL/L ≤ -30%	0.77 ΔT ≤ 40℃ ℃			上限 下限	長 mm 寬 mm 高 mm
TEST FREQ.	100KHz/1V		100KHz/1V						
1	10.5	251	8.68	-17.3%	OK				3.03 3.05 1.43
2	10.3	253	8.51	-17.4%	OK				3.01 3.06 1.46
3	10.4	252	8.40	-19.2%	OK				3.02 3.04 1.40
4	10.2	246	8.59	-15.8%	OK				3.05 3.07 1.42
5	10.6	246	8.54	-19.4%	OK				3.06 3.08 1.41
6	10.0	252	8.53	-14.7%	OK				3.02 3.06 1.43
7	10.2	251	8.34	-18.2%	OK				3.03 3.08 1.39
8	9.96	253	8.26	-17.1%	OK				2.99 3.09 1.45
9	10.4	249	8.45	-18.8%	OK				3.06 3.06 1.39
10	10.2	252	8.39	-17.7%	OK				3.09 3.00 1.40
AVG.	10.276	250.5	8.469	-17.57%					3.036 3.059 1.418
R	0.64	7	0.42	4.73%					0.1 0.09 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	10.4	0.00%
1	0.11	10.4	0.00%
1	0.21	10.2	-1.92%
1	0.32	10.1	-2.88%
1	0.42	9.92	-4.62%
1	0.53	9.68	-6.92%
1	0.63	9.40	-9.62%
1	0.74	9.02	-13.27%
1	0.84	8.41	-19.13%
1	0.95	7.40	-28.85%
1	1.05	5.55	-46.63%

單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	9.98	0.00%	22.6	0.0
30	0.11	9.97	-0.10%	22.8	0.2
30	0.21	9.79	-1.90%	23.0	0.4
30	0.32	9.58	-4.01%	23.8	1.2
30	0.42	9.33	-6.51%	24.7	2.1
30	0.53	9.08	-9.02%	25.6	3.0
30	0.63	8.78	-12.02%	27.0	4.4
30	0.74	8.41	-15.73%	28.6	6.0
30	0.84	7.85	-21.34%	30.5	7.9
30	0.95	6.96	-30.26%	32.8	10.2
30	1.05	5.65	-43.39%	35.6	13.0

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SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3015B-150MC

PART NO. CKNR3015B Series

DRAWN NO.

TEST R.H. 80~85%

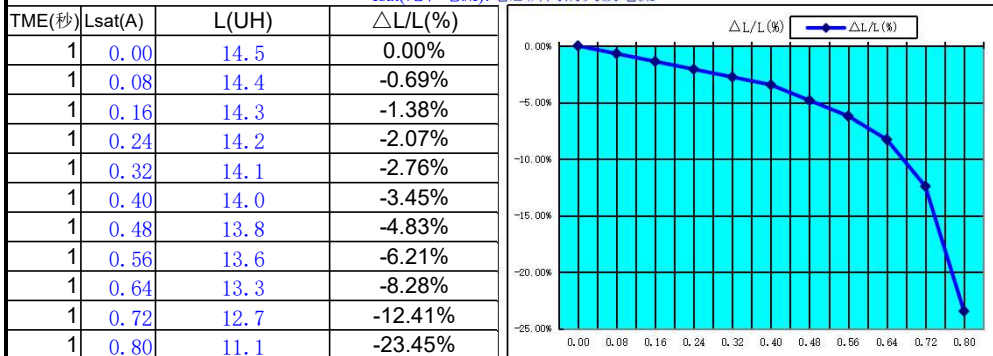
TEST TEMP. 20~25℃

DATE 2025/2/11

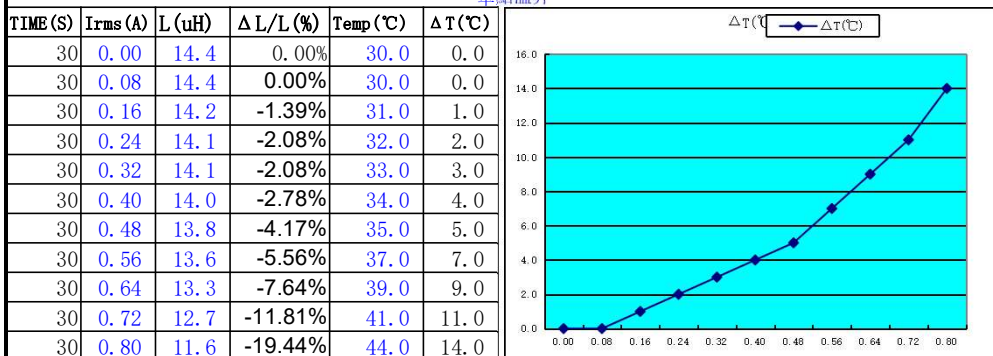
TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION						DIMENSION (Unit: mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				
SPEC.	15.0 ± 20%	432 Max.	0.56 Max.	ΔL/L ≤ -30%	0.56 ΔT ≤ 40℃ ℃			上限 下限	長 mm 寬 mm 高 mm
TEST FREQ.	100KHz/1V		100KHz/1V						
1	15.3	386	12.8	-16.34%	OK				3.05 3.02 1.45
2	15.0	382	13.8	-8.00%	OK				3.01 3.01 1.43
3	14.4	394	12.4	-13.89%	OK				3.03 3.03 1.45
4	14.6	391	12.9	-11.64%	OK				3.05 3.20 1.42
5	15.9	386	13.8	-13.21%	OK				3.02 3.03 1.43
6	15.2	384	13.1	-13.82%	OK				3.04 3.05 1.41
7	14.7	391	12.8	-12.93%	OK				3.02 3.02 1.43
8	15.3	392	12.8	-16.34%	OK				3.03 3.03 1.39
9	15.0	387	12.5	-16.67%	OK				3.05 3.06 1.43
10	14.6	382	12.4	-15.07%	OK				3.01 3.04 1.42
AVG.	15.000	387.5	12.93	-13.79%					3.031 3.049 1.426
R	1.5	12	1.4	8.67%					0.04 0.19 0.06

Isat(飽和電流):電感瞬間的突波電流



單點溫昇



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SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3015B-220MC

PART NO. CKNR3015B Series

DRAWN NO.

TEST R.H. 80~85%

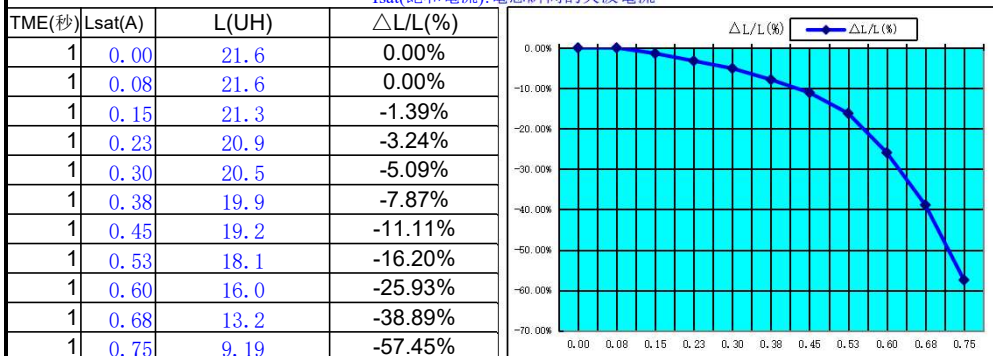
TEST TEMP. 20~25℃

DATE 2025/2/11

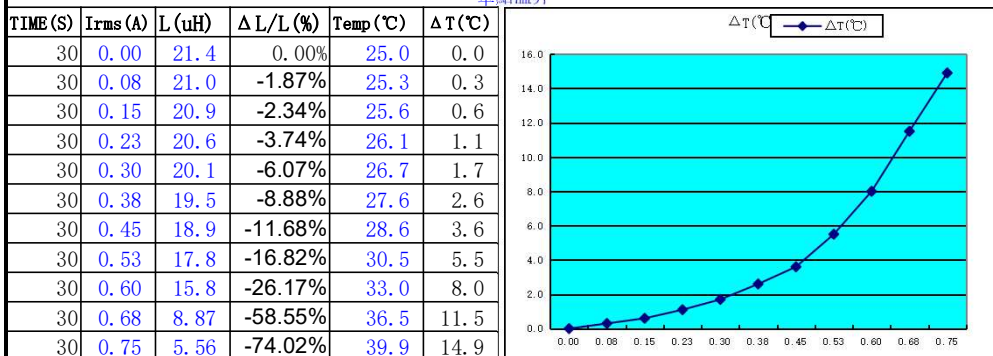
TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION						DIMENSION (Unit: mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				
SPEC.	22.0 ± 20%	624 Max.	0.47 Max.	ΔL/L ≤ -30%	0.47 ΔT ≤ 40℃ ℃			上限 下限	長 mm 寬 mm 高 mm
TEST FREQ.	100KHz/1V		100KHz/1V						
1	22.7	612	18.9	-16.74%	OK				3.01 3.06 1.40
2	22.5	545	18.9	-16.00%	OK				3.05 3.08 1.41
3	22.2	566	18.8	-15.32%	OK				3.00 3.05 1.40
4	22.9	548	18.7	-18.34%	OK				2.98 3.04 1.40
5	23.8	552	18.4	-22.69%	OK				2.99 3.05 1.41
6	22.9	548	18.0	-21.40%	OK				3.06 3.06 1.43
7	23.2	552	18.3	-21.12%	OK				3.05 3.02 1.45
8	22.8	548	18.0	-21.05%	OK				3.02 3.03 1.40
9	22.1	546	17.9	-19.00%	OK				3.01 3.06 1.39
10	22.6	548	17.5	-22.57%	OK				3.06 3.04 1.43
AVG.	22.770	556.5	18.34	-19.42%					3.023 3.049 1.412
R	1.7	67	1.4	7.37%					0.08 0.06 0.06

Isat(飽和電流):電感瞬間的突波電流



單點溫昇



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SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3015B-330MC

PART NO. CKNR3015B Series

DRAWN NO.

TEST R.H. 80~85%

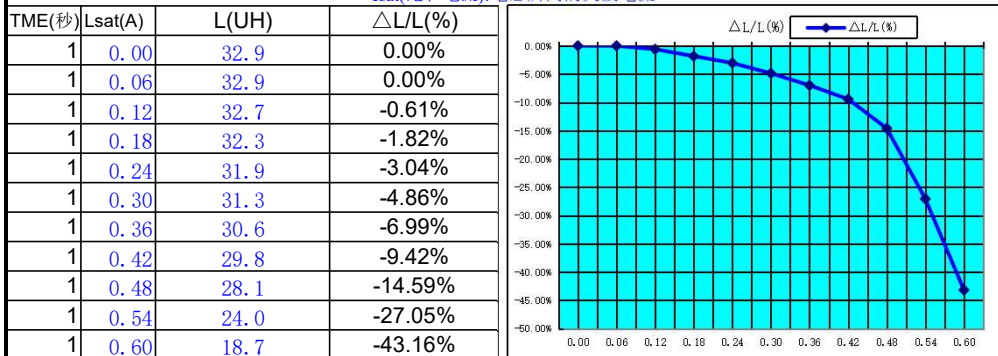
TEST TEMP. 20~25℃

DATE 2025/2/11

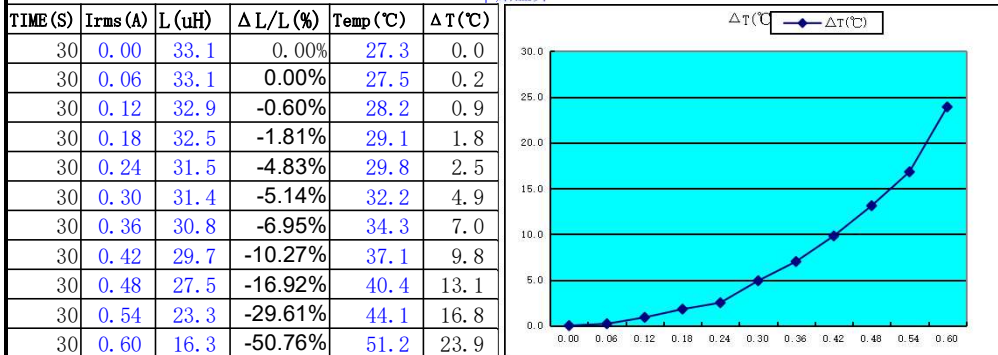
TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION						DIMENSION (Unit: mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				
SPEC.	33.0 ± 20%	1066 Max.	0.44 Max.	ΔL/L ≤ -30%	0.43 ΔT ≤ 40℃ ℃			上限 下限	長 mm 寬 mm 高 mm
TEST FREQ.	100KHz/1V		100KHz/1V						
1	31.7	844	26.3	-17.03%	OK				3.01 3.06 1.40
2	31.8	856	26.1	-17.92%	OK				3.05 3.08 1.41
3	31.6	861	25.9	-18.04%	OK				3.00 3.05 1.40
4	31.2	870	25.8	-17.31%	OK				2.98 3.04 1.40
5	31.0	855	26.2	-15.48%	OK				2.99 3.05 1.41
6	31.4	849	26.6	-15.29%	OK				3.06 3.06 1.43
7	32.0	862	25.4	-20.63%	OK				3.05 3.02 1.45
8	31.3	869	25.1	-19.81%	OK				3.02 3.03 1.40
9	31.0	854	25.4	-18.06%	OK				3.01 3.06 1.39
10	31.5	855	26.0	-17.46%	OK				3.06 3.04 1.43
AVG.	31.450	857.5	25.88	-17.70%					3.023 3.049 1.412
R	1	26	1.5	5.34%					0.08 0.06 0.06

Isat(飽和電流):電感瞬間的突波電流



單點溫昇



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SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3015B-470MC

PART NO. CKNR3015B Series

DRAWN NO.

TEST R.H. 80~85%

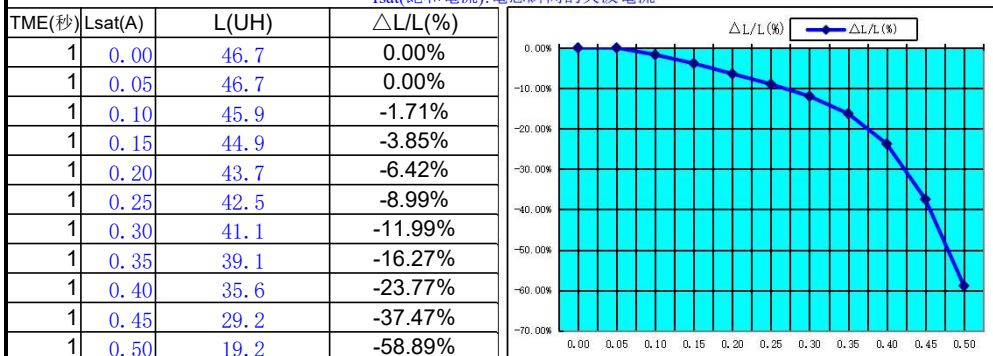
TEST TEMP. 20~25℃

DATE 2025/2/11

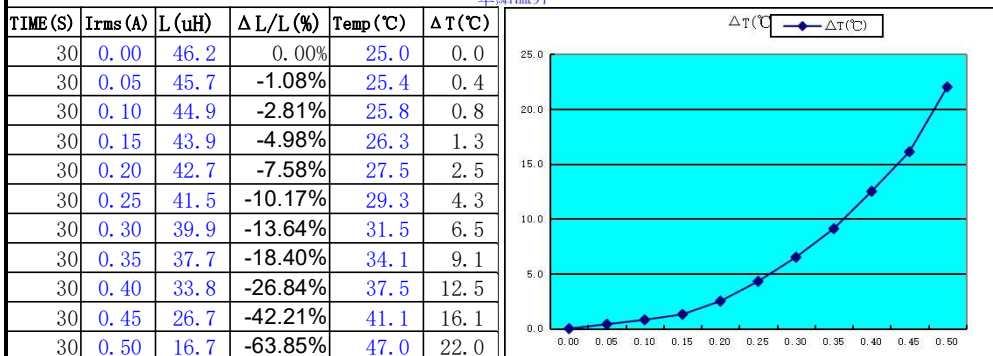
TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION						DIMENSION (Unit: mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				
SPEC.	47.0 ± 20%	1608 Max.	0.32 Max.	ΔL/L ≤ -30%	0.30 ΔT ≤ 40℃ ℃			上限 下限	長 mm 寬 mm 高 mm
TEST FREQ.	100KHz/1V		100KHz/1V						
1	47.7	1273	38.6	-19.08%	OK				3.00 3.05 1.39
2	46.7	1272	38.4	-17.77%	OK				2.98 3.04 1.42
3	45.4	1251	39.0	-14.10%	OK				2.97 3.08 1.38
4	47.1	1242	39.5	-16.14%	OK				2.99 3.06 1.42
5	45.6	1239	37.6	-17.54%	OK				2.96 3.06 1.46
6	43.3	1252	38.9	-10.16%	OK				2.98 3.03 1.43
7	45.5	1278	38.3	-15.82%	OK				3.06 3.04 1.41
8	43.6	1259	38.8	-11.01%	OK				3.05 3.05 1.48
9	47.3	1254	38.2	-19.24%	OK				3.03 3.02 1.43
10	46.2	1264	38.3	-17.10%	OK				3.06 3.01 1.43
AVG.	45.840	1258.4	38.56	-15.80%					3.008 3.044 1.425
R	4.4	39	1.9	9.08%					0.1 0.07 0.1

Isat(飽和電流):電感瞬間的突波電流



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SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3015B-560MC

PART NO. CKNR3015B Series

DRAWN NO.

TEST R.H. 80~85%

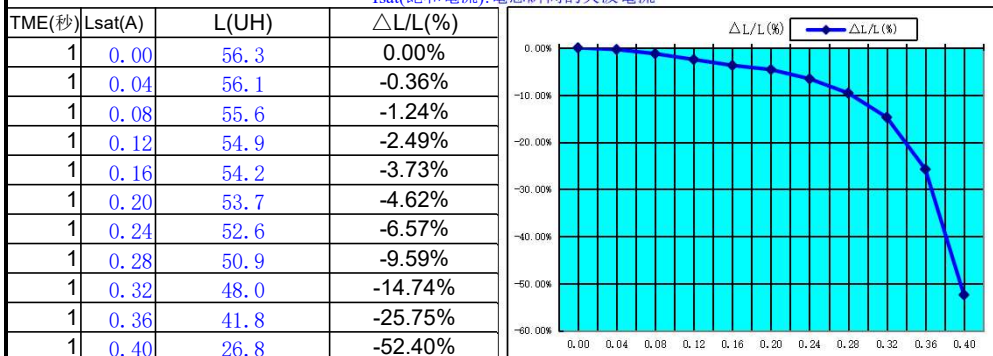
TEST TEMP. 20~25℃

DATE 2025/2/11

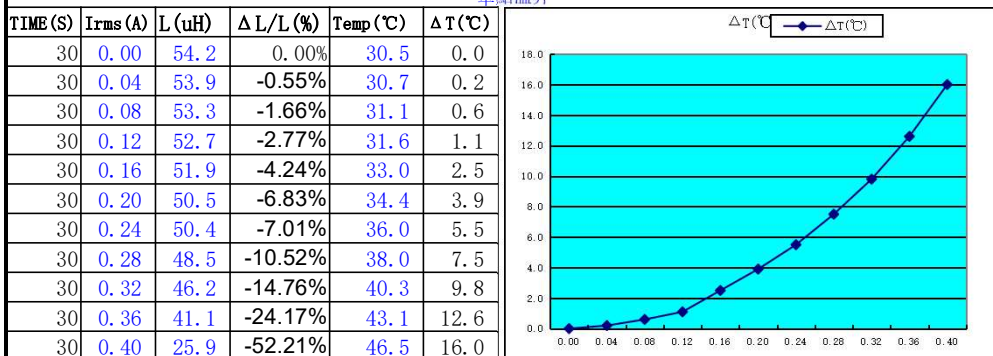
TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION						DIMENSION (Unit: mm)			
MEAS. ITEM	L μH	DCR mΩ	Isat A	ΔL/L	Irms A				
SPEC.	56.0 ± 20%	1980 Max.	0.3 Max.	ΔL/L ≤ -30%	0.28 ΔT ≤ 40℃ ℃				
TEST FREQ.	100KHz/1V		100KHz/1V						
1	56.3	1610	47.0	-16.52%	OK			3.00	3.05
2	56.2	1590	46.2	-17.79%	OK			2.98	3.04
3	54.7	1590	45.1	-17.55%	OK			2.97	3.08
4	55.2	1580	46.5	-15.76%	OK			2.99	3.06
5	56.5	1570	46.6	-17.52%	OK			2.96	3.06
6	55.9	1590	47.1	-15.74%	OK			2.98	3.03
7	54.5	1600	46.5	-14.68%	OK			3.06	3.04
8	55.4	1620	46.3	-16.43%	OK			3.05	3.05
9	54.4	1590	46.1	-15.26%	OK			3.03	3.02
10	54.9	1600	46.0	-16.21%	OK			3.06	3.01
AVG.	55.400	1594	46.34	-16.35%				3.008	3.044
R	2.1	50	2	3.11%				0.1	0.07

Isat(飽和電流):電感瞬間的突波電流



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SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3015B-680MC

PART NO. CKNR3015B Series

DRAWN NO.

TEST R.H. 80~85%

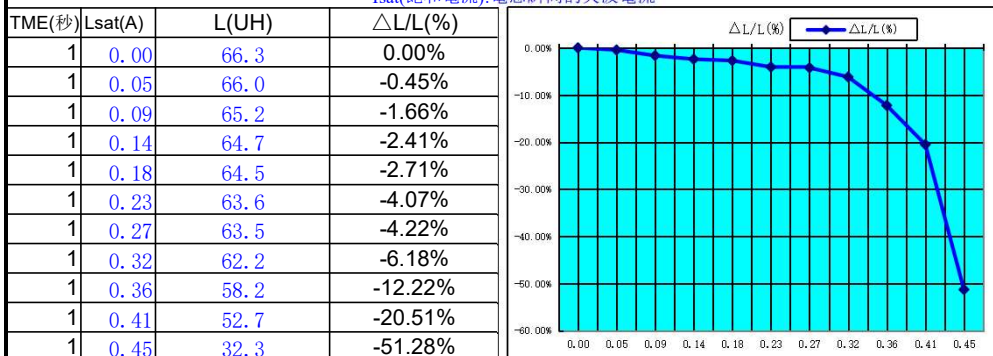
TEST TEMP. 20~25℃

DATE 2025/2/11

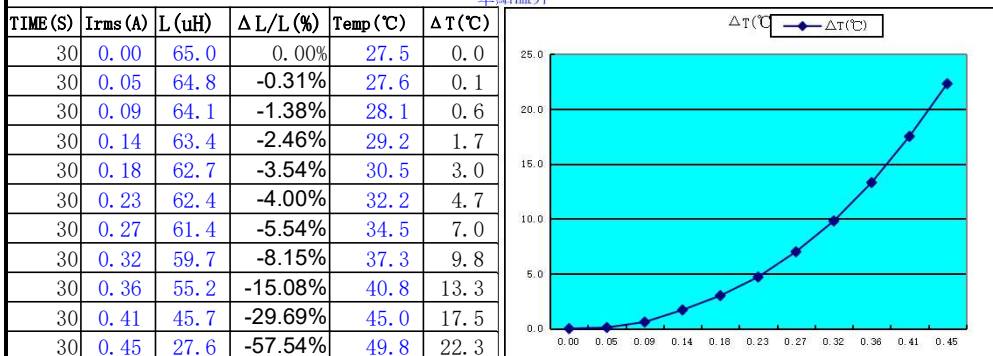
TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION						DIMENSION (Unit: mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				
SPEC.	68.0 ± 20%	2400 Max.	0.28 Max.	ΔL/L ≤ -30%	0.23 ΔT ≤ 40℃ ℃				
TEST FREQ.	100KHz/1V		100KHz/1V						
1	65.3	1920	57.6	-11.79%	OK			3.00	3.05
2	64.7	1890	56.2	-13.14%	OK			2.98	3.04
3	65.0	1930	54.3	-16.46%	OK			2.97	3.08
4	64.3	1920	55.6	-13.53%	OK			2.99	3.06
5	65.1	1940	58.1	-10.75%	OK			2.96	3.06
6	64.9	1890	56.2	-13.41%	OK			2.98	3.03
7	65.3	1900	56.2	-13.94%	OK			3.06	3.04
8	64.5	1870	57.1	-11.47%	OK			3.05	3.05
9	65.7	1910	53.9	-17.96%	OK			3.03	3.02
10	64.3	1890	56.1	-12.75%	OK			3.06	3.01
AVG.	64.910	1906	56.13	-13.52%				3.008	3.044
R	1.4	70	4.2	7.21%				0.1	0.07

Isat(飽和電流):電感瞬間的突波電流



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SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3015B-101MC

PART NO. CKNR3015B Series

DRAWN NO.

TEST R.H. 80~85%

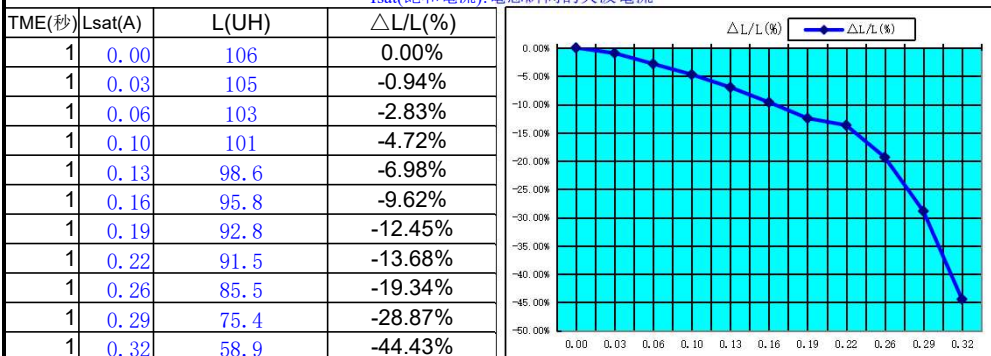
TEST TEMP. 20~25℃

DATE 2025/2/11

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION						DIMENSION (Unit: mm)			
MEAS. ITEM	L μH	DCR mΩ	Isat A	ΔL/L	Irms A				
SPEC.	100.0 ± 20%	3200 Max.	0.21 Max.	ΔL/L ≤ -30%	0.21 ΔT ≤ 40℃ ℃			上限 下限	長 mm 寬 mm 高 mm
TEST FREQ.	100KHz/1V		100KHz/1V						
1	98.3	2400	85.7	-12.82%	OK				3.00 3.05 1.39
2	105	2390	86.5	-17.62%	OK				2.98 3.04 1.42
3	100	2390	85.4	-14.60%	OK				2.97 3.08 1.38
4	105	2370	86.2	-17.90%	OK				2.99 3.06 1.42
5	101	2400	83.9	-16.93%	OK				2.96 3.06 1.46
6	97.6	2410	86.5	-11.37%	OK				2.98 3.03 1.43
7	102	2460	84.5	-17.16%	OK				3.06 3.04 1.41
8	101	2450	84.5	-16.34%	OK				3.05 3.05 1.48
9	105	2460	86.5	-17.62%	OK				3.03 3.02 1.43
10	107	2460	85.9	-19.72%	OK				3.06 3.01 1.43
AVG.	102.190	2419	85.56	-16.21%					3.008 3.044 1.425
R	9.4	90	2.6	8.35%					0.1 0.07 0.1

Isat(飽和電流):電感瞬間的突波電流



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