承　　认　　书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	13/Feb/2025	REVISION NO.	A
PART NO.	CKNR4012B 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

RoHS Compliance

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GUANG DONG CHK ELECTRONIC TECH Co., Ltd

ECN HISTORY LIST

REV	DATE	DESCRIPTION	CHECK	APPROVED
A	2025/2/13	新作成	林树英	黄大燕

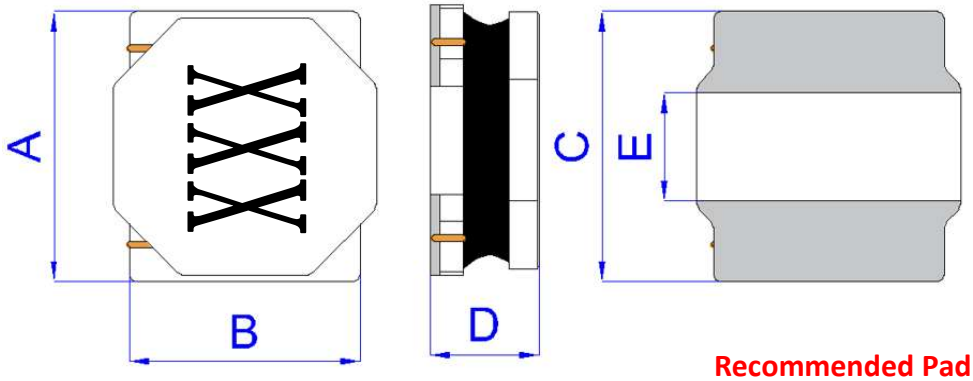
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GUANG DONG CHK ELECTRONIC TECH Co., Ltd

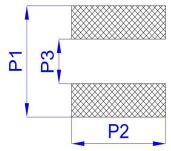
CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 1/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR4012B Series	DATE	2025/2/13

1.SHAPE & DIMENSION

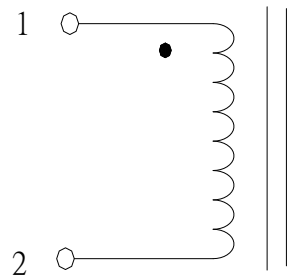
UNIT: mm



Recommended Pad



SCHEMATICS



MARKING COLOR

BLACK

A	B	C	D	E	P1	P2	P3
4	4	4	1.1	1.4	4	3.7	1.6
±0.2	±0.2	±0.2	±0.1	±0.2	Ref.	Ref.	Ref.

PART NUMBERING SYSTEM

CK	NR	4012	B	-	2R2	M	C
1	2	3	4	5	5	6	7

1 **CHK PRODUCTION (今凯制造)**

2 **PRODUCT CATEGORY （产品种类）** NR-镍锌 NRS-合金

3 **DIMENSIONS （尺寸规格）**

4 **MAERTIAL TYPE （材料类型）**

5 **INDUCTANCE （电感量）**

6 **TOLERANCE （公差）** M:±20% N:±25% Y:±30%

7 **PACKAGING （包装方式）** C - 编带盘装 B - 盒装

APPROVED BY	CHECKED BY	DRAFT BY
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CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 2/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR4012B Series	DATE	2025/2/13

2.SERIES SPECIFICATION

◆ CKNR4012B Series Specification:

Part Number	Inductance	Test Freq	DCR(mΩ)		Saturation Current (A)		Temp.Rise Current (A)	
	(μH)	(Hz)	Max	Typ	Max	Typ	Max	Typ
CKNR4012B-R47YC	0.47	100KHz/1V	60	45	4.00	4.50	3.40	3.90
CKNR4012B-R68YC	0.68		65	49	3.60	4.00	3.00	3.80
CKNR4012B-1R0YC	1.0		88	65	2.80	3.10	3.20	3.60
CKNR4012B-1R5YC	1.5		90	74	2.30	2.50	2.50	2.90
CKNR4012B-2R2NC	2.2		120	90	2.20	2.45	2.50	2.70
CKNR4012B-3R3MC	3.3		147	119	2.00	2.25	2.30	2.50
CKNR4012B-4R7MC	4.7		190	154	1.40	1.65	1.70	1.90
CKNR4012B-6R8MC	6.8		280	225	1.30	1.45	1.50	1.65
CKNR4012B-100MC	10		410	336	1.00	1.10	1.10	1.20
CKNR4012B-150MC	15		624	500	0.70	0.95	1.00	1.10
CKNR4012B-220MC	22		924	753	0.65	0.75	0.90	1.00
CKNR4012B-330MC	33		1200	1000	0.50	0.58	0.60	0.70
CKNR4012B-470MC	47		1920	1550	0.40	0.50	0.50	0.60

◆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 △T≦40℃.(Ta=25℃)

*For CKNR4012B Series size inductors,absolute maximum voltage: I 25 V.

※此物料仅用于消费电子领域，若用于车载，航天，军事领域引起的一切品质和责任问题，我司既不承担※

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CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 3/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR4012B Series	DATE	2025/2/13

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 equlvalent	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℃

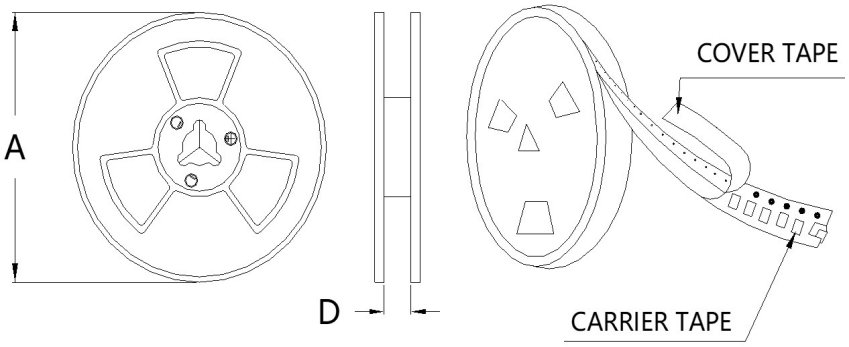
APPROVED BY	CHECKED BY	DRAWN BY
黄大燕	黄大燕	林树英

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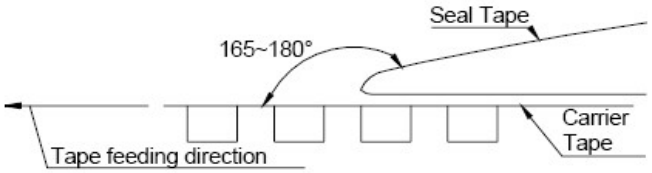
CUSTOMER	0	REVISION NO.	A
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DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR4012B Series	DATE	2025/2/13

4.PACKAGING(unit: mm)

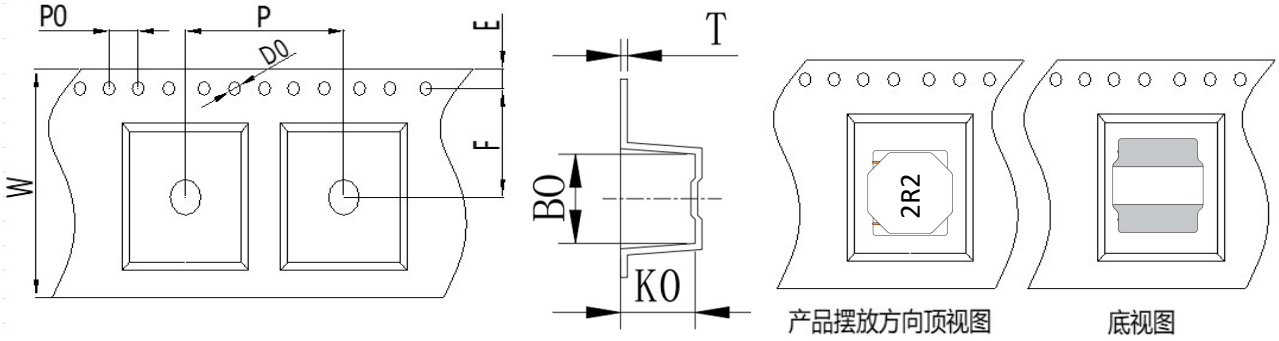
1.包装类型 **2.包装尺寸** □ 13″ 盘 ■ 7″ 盘



	13″ 盘	7″ 盘
A	Φ330±2.0	Φ178±2.0
D	12.4	



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



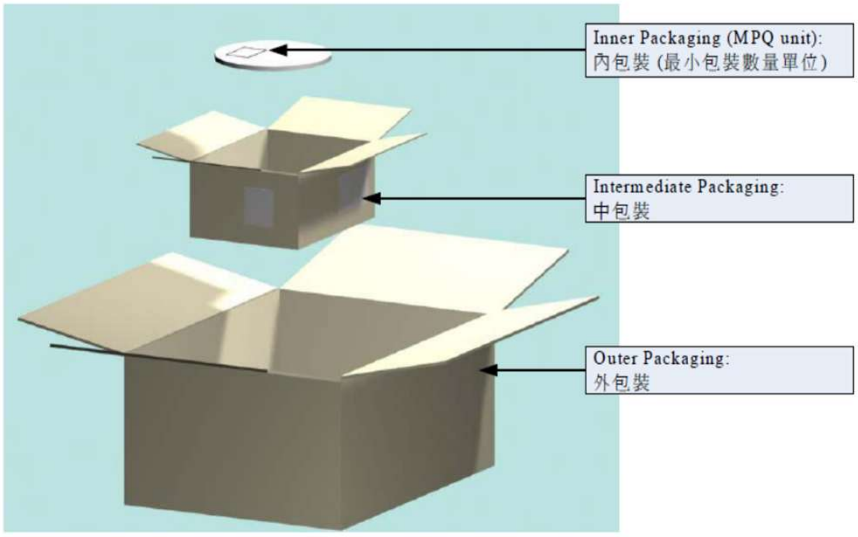
Item	W	B0	P	T	E	F	D0	P0	K0	
DIM(mm)	12.0±0.3	4.4±0.1	8.0±0.1	0.3±0.05	1.75±0.1	5.5±0.1	1.5±0.1	4.0±0.1	1.35±0.1	

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CUSTOMER	0	REVISION NO.	A
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DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR4012B Series	DATE	2025/2/13

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: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

外箱包装数量				
每箱	10	卷,共	45000	PCS

内箱包装数量				
每箱	5	卷,共	22500	PCS

APPROVED BY	CHECKED BY	DRAFT
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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 ± 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 ± 10% of the initial value.
3	Thermal shock	Condition for 1 cycle: -40℃,30min.~+125℃,30min Number of cycles:5	Inductance shall be within ± 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 ± 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 ± 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 ± 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 ± 10% of the initial value. Apperance: No damage

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DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR4012B Series	DATE	2025/2/13

7. SOLDERING CONDITIONS

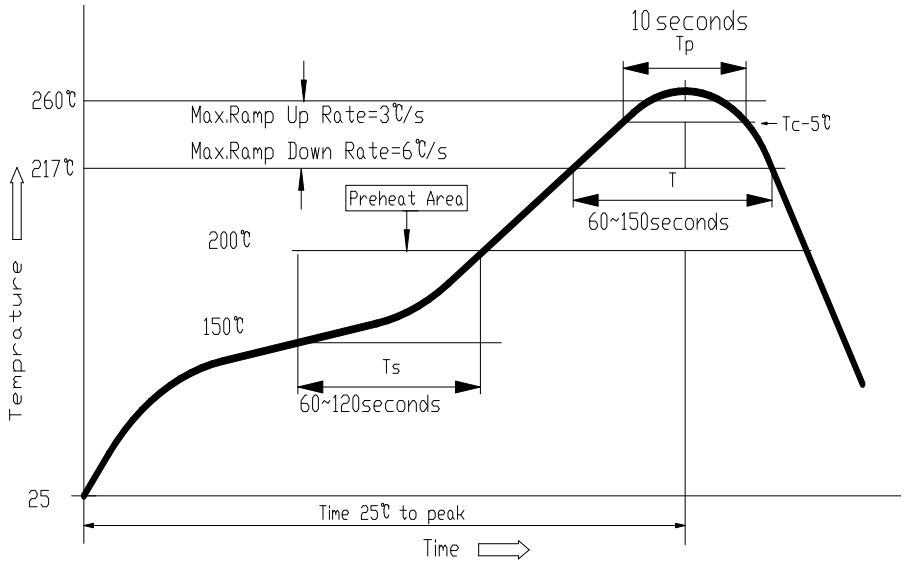
Applicable soldering process to the products is refl.

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

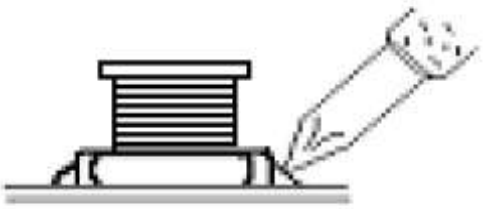
Reworking with electric solding iron must preheating at 150℃ for 1 minute is required,and do not directly touch the core with the tip of the soldering iron.The reworking soldering conditions are as follows.

①Temperature of soldering iron tip:350℃；

② Soldering iron power output:≤30W；

③ Diameter of soldering iron end:≤1.0mm；

④Soldering time:＜3 s

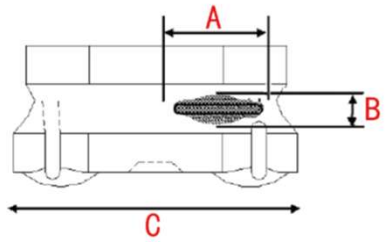


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CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 8/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR4012B Series	DATE	2025/2/13

8.Appearance of the standard

1.Void appearance tolerance limit



Size of voids occurring to coating resin is specified below.

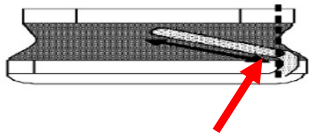
①Width direction(dimension A): Acceptable when A<=C/2

Nonconforming when B>=C/2

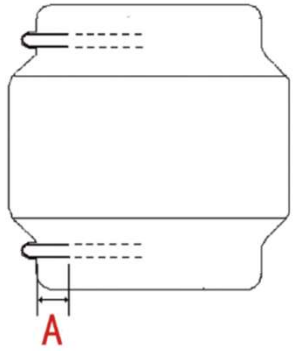
②Length direction(dimension B):Dimension b is not specified

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<=0.8mm

②Nonconforming when A>0.8mm

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RoHS Compliance

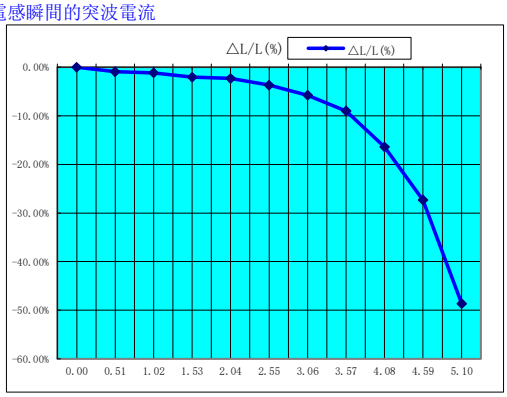
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4012B-R47YC	TEST R.H.	80~85%
PART NO.	CKNR4012B Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

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.	0.47 ± 30%	60 Max.	4.00 Max.	△L/L≦-30%	2.00 △T≦40℃				上限 下限	4.2 3.8	4.2 3.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	0. 44	45. 6	0.38	-13.64%	OK					4.04	4.04	1.19
2	0. 42	44. 5	0.36	-14.29%	OK					4.02	4.02	1.16
3	0. 38	46. 3	0.32	-15.79%	OK					3.99	4.01	1.16
4	0. 42	47. 0	0.34	-19.05%	OK					4.03	4.00	1.18
5	0. 41	45. 9	0.35	-14.63%	OK					4.02	4.04	1.18
6	0. 43	47. 2	0.36	-16.28%	OK					4.03	4.03	1.15
7	0. 42	47. 5	0.36	-14.29%	OK					4.00	4.03	1.15
8	0. 38	44. 3	0.32	-15.53%	OK					4.01	4.02	1.16
9	0. 40	46. 5	0.34	-15.00%	OK					4.04	3.99	1.15
10	0. 43	44. 8	0.35	-18.60%	OK					4.02	4.04	1.17
AVG.	**0.413**	**45.96**	**0.3481**	**-15.71%**						**4.02**	**4.022**	**1.165**
R	**0.06**	**3.2**	**0.06**	**5.41%**						**0.05**	**0.05**	**0.04**

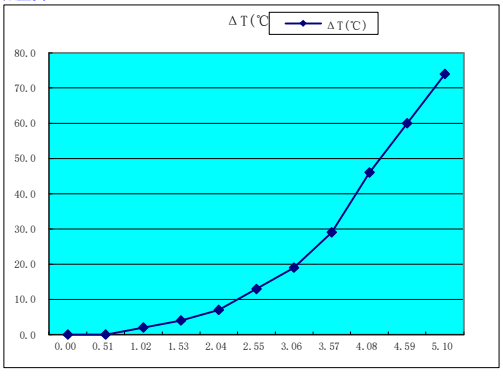
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	0.432	0.00%
1	0.51	0.428	-0.93%
1	1.02	0.427	-1.16%
1	1.53	0.423	-2.08%
1	2.04	0.422	-2.31%
1	2.55	0.416	-3.70%
1	3.06	0.407	-5.79%
1	3.57	0.393	-9.03%
1	4.08	0.361	-16.44%
1	4.59	0.314	-27.31%
1	5.10	0.222	-48.61%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	0.438	0.00%	30.0	0.0
30	0.51	0.440	0.46%	30.0	0.0
30	1.02	0.440	0.46%	32.0	2.0
30	1.53	0.438	0.00%	34.0	4.0
30	2.04	0.436	-0.46%	37.0	7.0
30	2.55	0.430	-1.83%	43.0	13.0
30	3.06	0.422	-3.65%	49.0	19.0
30	3.57	0.402	-8.22%	59.0	29.0
30	4.08	0.316	-27.85%	76.0	46.0
30	4.59	0.292	-33.33%	90.0	60.0
30	5.10	0.191	-56.39%	104.0	74.0



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SPECIFICATION FOR APPROVAL

RoHS Compliance

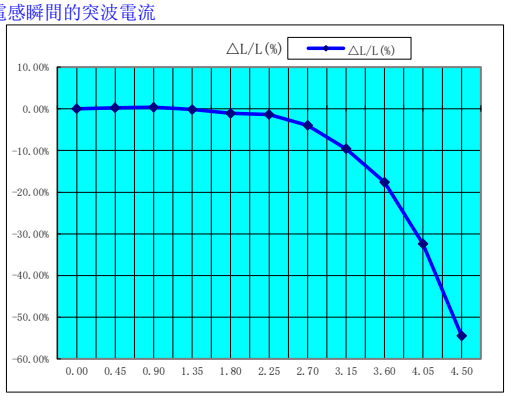
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4012B-R68YC	TEST R.H.	80~85%
PART NO.	CKNR4012B Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

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.	0.68 ± 30%	65 Max.	3.00 Max.	△L/L≦-30%	1.80 △T≦40℃ ℃					上限 下限	4.2 3.8	4.2 3.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V										
1	0. 65	48. 1	0.55	-15.38%	OK						4.04	4.04	1.19
2	0. 68	49. 0	0.56	-17.65%	OK						4.02	4.02	1.16
3	0. 64	51. 5	0.56	-12.50%	OK						3.99	4.01	1.16
4	0. 67	48. 4	0.58	-13.43%	OK						4.03	4.00	1.18
5	0. 64	48. 8	0.56	-12.50%	OK						4.02	4.04	1.18
6	0. 65	49. 8	0.54	-16.92%	OK						4.03	4.03	1.15
7	0. 67	48. 0	0.58	-13.43%	OK						4.00	4.03	1.15
8	0. 65	50. 0	0.59	-9.23%	OK						4.01	4.02	1.16
9	0. 68	48. 1	0.58	-14.71%	OK						4.04	3.99	1.15
10	0. 68	51. 0	0.56	-17.65%	OK						4.02	4.04	1.17
AVG.	**0.661**	**49.27**	**0.566**	**-14.34%**							**4.02**	**4.022**	**1.165**
R	**0.04**	**3.5**	**0.05**	**8.42%**							**0.05**	**0.05**	**0.04**

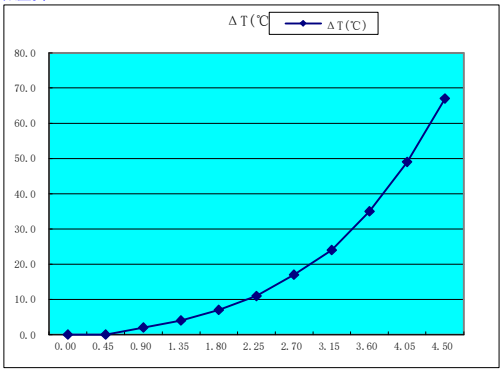
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	0.729	0.00%
1	0.45	0.731	0.27%
1	0.90	0.732	0.41%
1	1.35	0.728	-0.14%
1	1.80	0.721	-1.10%
1	2.25	0.719	-1.37%
1	2.70	0.700	-3.98%
1	3.15	0.659	-9.60%
1	3.60	0.601	-17.56%
1	4.05	0.493	-32.37%
1	4.50	0.332	-54.46%



單點溫昇

TIME(S)	Irms(A)	L(uH)	△L/L(%)	Temp(℃)	△T(℃)
30	0.00	0.744	0.00%	32.0	0.0
30	0.45	0.747	0.40%	32.0	0.0
30	0.90	0.749	0.67%	34.0	2.0
30	1.35	0.746	0.27%	36.0	4.0
30	1.80	0.739	-0.67%	39.0	7.0
30	2.25	0.737	-0.94%	43.0	11.0
30	2.70	0.715	-3.90%	49.0	17.0
30	3.15	0.668	-10.22%	56.0	24.0
30	3.60	0.572	-23.12%	67.0	35.0
30	4.05	0.406	-45.43%	81.0	49.0
30	4.50	0.231	-68.95%	99.0	67.0



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SPECIFICATION FOR APPROVAL

RoHS Compliance

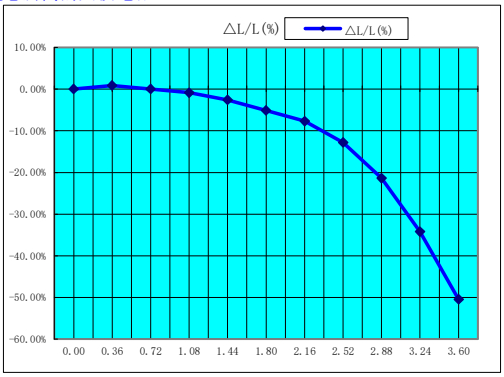
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4012B-1R0YC	TEST R.H.	80~85%
PART NO.	CKNR4012B Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

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.	1 ± 30%	88 Max.	2.61 Max.	△L/L≦-30%	1.65 △T≦40℃ ℃		上限 下限	4.2 3.8	4.2 3.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	1.18	64.3	0.99	-16.10%	OK			4.04	4.04	1.19
2	1.19	66.8	0.99	-16.81%	OK			4.02	4.02	1.16
3	1.17	69.0	0.96	-17.95%	OK			3.99	4.01	1.16
4	1.18	67.3	0.95	-19.49%	OK			4.03	4.00	1.18
5	1.13	64.3	0.94	-16.81%	OK			4.02	4.04	1.18
6	1.20	67.5	0.98	-18.33%	OK			4.03	4.03	1.15
7	1.17	64.0	0.98	-16.24%	OK			4.00	4.03	1.15
8	1.14	63.5	0.95	-16.67%	OK			4.01	4.02	1.16
9	1.16	65.9	0.95	-18.10%	OK			4.04	3.99	1.15
10	1.18	64.4	0.98	-16.95%	OK			4.02	4.04	1.17
AVG.	**1.170**	**65.7**	**0.967**	**-17.35%**				**4.02**	**4.022**	**1.165**
R	**0.07**	**5.5**	**0.05**	**3.39%**				**0.05**	**0.05**	**0.04**

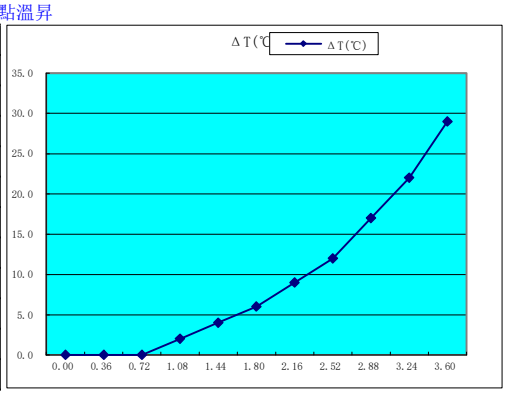
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	1.17	0.00%
1	0.36	1.18	0.85%
1	0.72	1.17	0.00%
1	1.08	1.16	-0.85%
1	1.44	1.14	-2.56%
1	1.80	1.11	-5.13%
1	2.16	1.08	-7.69%
1	2.52	1.02	-12.82%
1	2.88	0.92	-21.37%
1	3.24	0.77	-34.19%
1	3.60	0.58	-50.43%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	1.10	0.00%	26.0	0.0
30	0.36	1.10	0.00%	26.0	0.0
30	0.72	1.10	0.00%	26.0	0.0
30	1.08	1.09	-0.91%	28.0	2.0
30	1.44	1.07	-2.73%	30.0	4.0
30	1.80	1.04	-5.45%	32.0	6.0
30	2.16	1.01	-8.18%	35.0	9.0
30	2.52	0.96	-12.73%	38.0	12.0
30	2.88	0.88	-20.00%	43.0	17.0
30	3.24	0.76	-30.91%	48.0	22.0
30	3.60	0.61	-44.55%	55.0	29.0



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RoHS Compliance

SPECIFICATION FOR APPROVAL

CUSTOMER	
CUSTOMER'S P/N	
JINKAI P/N:	CKNR4012B-1R5YC
PART NO.	CKNR4012B Series
DRAWN NO.	

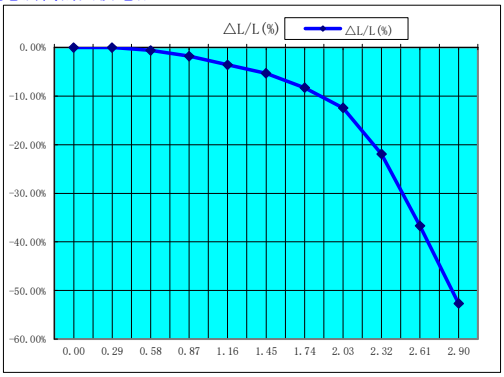
TEST R.H.	80~85%
TEST TEMP.	20~25℃
DATE	2025/2/13

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.	1.5 ± 30%	90 Max.	2.10 Max.	△L/L≦-30%	1.46 △T≦40℃ ℃		上限 下限	4.2 3.8	4.2 3.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	1.74	73.8	1.44	-17.24%	OK			4.04	4.04	1.19
2	1.71	72.7	1.41	-17.54%	OK			4.02	4.02	1.16
3	1.68	71.5	1.41	-16.07%	OK			3.99	4.01	1.16
4	1.75	74.4	1.45	-17.14%	OK			4.03	4.00	1.18
5	1.74	75.0	1.50	-13.79%	OK			4.02	4.04	1.18
6	1.76	73.5	1.41	-19.89%	OK			4.03	4.03	1.15
7	1.70	73.5	1.45	-14.71%	OK			4.00	4.03	1.15
8	1.76	75.5	1.50	-14.92%	OK			4.01	4.02	1.16
9	1.72	72.6	1.44	-16.28%	OK			4.04	3.99	1.15
10	1.69	73.3	1.40	-17.16%	OK			4.02	4.04	1.17
AVG.	**1.725**	**73.58**	**1.441**	**-16.47%**				**4.02**	**4.022**	**1.165**
R	**0.083**	**4**	**0.1**	**6.09%**				**0.05**	**0.05**	**0.04**

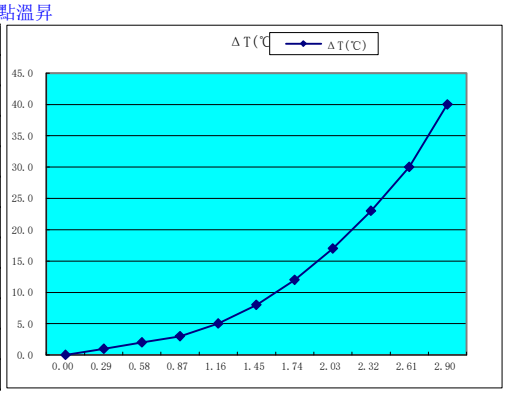
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	1.69	0.00%
1	0.29	1.69	0.00%
1	0.58	1.68	-0.59%
1	0.87	1.66	-1.78%
1	1.16	1.63	-3.55%
1	1.45	1.60	-5.33%
1	1.74	1.55	-8.28%
1	2.03	1.48	-12.43%
1	2.32	1.32	-21.89%
1	2.61	1.07	-36.69%
1	2.90	0.80	-52.66%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	1.74	0.00%	30.0	0.0
30	0.29	1.74	0.00%	31.0	1.0
30	0.58	1.73	-0.57%	32.0	2.0
30	0.87	1.71	-1.72%	33.0	3.0
30	1.16	1.69	-2.87%	35.0	5.0
30	1.45	1.65	-5.17%	38.0	8.0
30	1.74	1.60	-8.05%	42.0	12.0
30	2.03	1.50	-13.79%	47.0	17.0
30	2.32	1.28	-26.44%	53.0	23.0
30	2.61	0.96	-44.83%	60.0	30.0
30	2.90	0.58	-66.67%	70.0	40.0



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

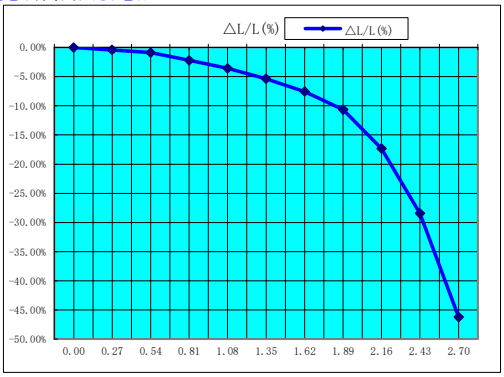
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4012B-2R2NC	TEST R.H.	80~85%
PART NO.	CKNR4012B Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

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.	2.2 ± 25%	120 Max.	1.90 Max.	△L/L≦-30%	1.32 △T≦40℃ ℃		上限 下限	4.2 3.8	4.2 3.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	2.13	90.3	1.70	-20.19%	OK			4.01	4.03	1.15
2	2.32	88.8	1.90	-18.10%	OK			4.00	4.05	1.16
3	2.22	89.3	1.80	-18.92%	OK			4.00	4.06	1.17
4	2.23	89.4	1.80	-19.28%	OK			4.00	4.08	1.17
5	2.25	89.6	1.79	-20.44%	OK			4.00	4.04	1.11
6	2.22	88.3	1.80	-18.92%	OK			4.01	4.01	1.15
7	2.25	88.6	1.80	-20.00%	OK			4.02	4.00	1.16
8	2.23	89.2	1.82	-18.39%	OK			4.00	4.00	1.18
9	2.23	88.9	1.79	-19.73%	OK			4.03	4.01	1.11
10	2.20	88.3	1.80	-18.18%	OK			4.08	4.02	1.14
AVG.	**2.228**	**89.07**	**1.8**	**-19.22%**				**4.015**	**4.03**	**1.15**
R	**0.19**	**2**	**0.2**	**2.34%**				**0.08**	**0.08**	**0.07**

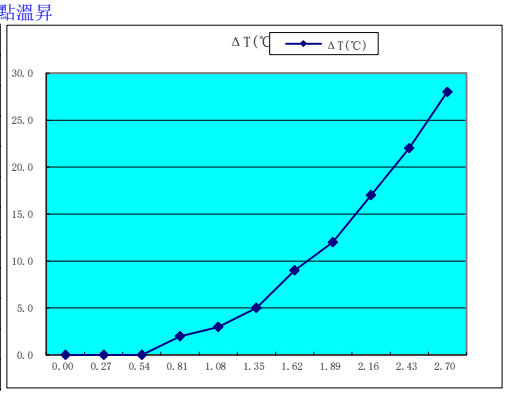
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	2.25	0.00%
1	0.27	2.24	-0.44%
1	0.54	2.23	-0.89%
1	0.81	2.20	-2.22%
1	1.08	2.17	-3.56%
1	1.35	2.13	-5.33%
1	1.62	2.08	-7.56%
1	1.89	2.01	-10.67%
1	2.16	1.86	-17.33%
1	2.43	1.61	-28.44%
1	2.70	1.21	-46.22%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	2.21	0.00%	31.0	0.0
30	0.27	2.22	0.45%	31.0	0.0
30	0.54	2.19	-0.90%	31.0	0.0
30	0.81	2.14	-3.17%	33.0	2.0
30	1.08	2.10	-4.98%	34.0	3.0
30	1.35	2.06	-6.79%	36.0	5.0
30	1.62	1.99	-9.95%	40.0	9.0
30	1.89	1.91	-13.57%	43.0	12.0
30	2.16	1.75	-20.81%	48.0	17.0
30	2.43	1.51	-31.67%	53.0	22.0
30	2.70	1.21	-45.25%	59.0	28.0



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SPECIFICATION FOR APPROVAL

RoHS Compliance

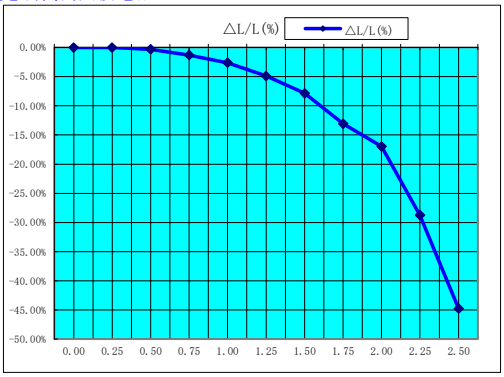
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4012B-3R3MC	TEST R.H.	80~85%
PART NO.	CKNR4012B Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

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.	3.3 ± 20%	147 Max.	1.50 Max.	△L/L≦-30%	1.20 △T≦40℃ ℃		上限 下限	4.2 3.8	4.2 3.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	3.08	118	2.60	-15.58%	OK			4.00	4.04	1.15
2	3.01	119	2.48	-17.61%	OK			3.98	4.06	1.14
3	2.99	118	2.51	-16.05%	OK			4.00	4.00	1.15
4	2.97	118	2.52	-15.15%	OK			4.00	4.00	1.17
5	2.90	120	2.49	-14.14%	OK			4.00	4.01	1.13
6	3.00	118	2.50	-16.67%	OK			4.00	4.01	1.13
7	3.05	119	2.56	-16.07%	OK			4.00	4.02	1.13
8	3.13	117	2.58	-17.57%	OK			4.05	3.99	1.12
9	3.02	120	2.49	-17.63%	OK			4.06	3.98	1.14
10	3.00	119	2.54	-15.33%	OK			4.01	4.04	1.18
AVG.	**3.015**	**118.6**	**2.527**	**-16.18%**				**4.01**	**4.015**	**1.144**
R	**0.23**	**3**	**0.12**	**3.49%**				**0.08**	**0.08**	**0.06**

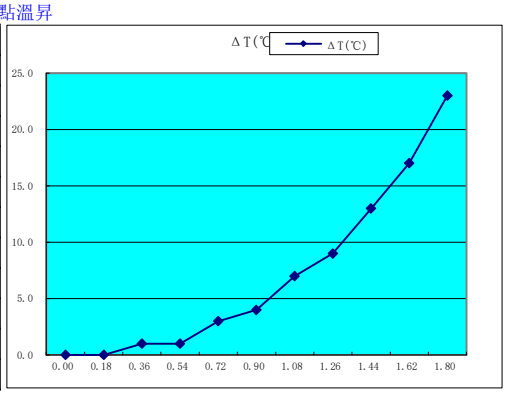
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	3.06	0.00%
1	0.25	3.06	0.00%
1	0.50	3.05	-0.33%
1	0.75	3.02	-1.31%
1	1.00	2.98	-2.61%
1	1.25	2.91	-4.90%
1	1.50	2.82	-7.84%
1	1.75	2.66	-13.07%
1	2.00	2.54	-16.99%
1	2.25	2.18	-28.76%
1	2.50	1.69	-44.77%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	3.06	0.00%	28.0	0.0
30	0.18	3.07	0.33%	28.0	0.0
30	0.36	3.05	-0.33%	29.0	1.0
30	0.54	3.06	0.00%	29.0	1.0
30	0.72	3.05	-0.33%	31.0	3.0
30	0.90	3.03	-0.98%	32.0	4.0
30	1.08	2.99	-2.29%	35.0	7.0
30	1.26	2.94	-3.92%	37.0	9.0
30	1.44	2.85	-6.86%	41.0	13.0
30	1.62	2.71	-11.44%	45.0	17.0
30	1.80	2.47	-19.28%	51.0	23.0



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

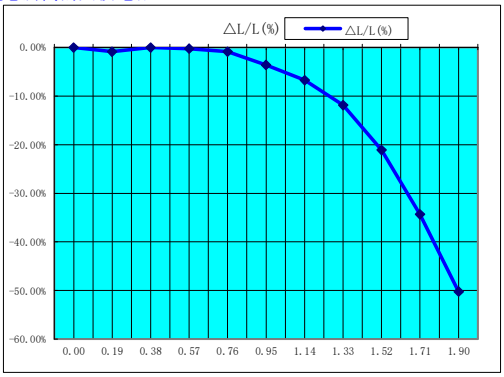
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4012B-4R7MC	TEST R.H.	80~85%
PART NO.	CKNR4012B Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

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.	4.7 ± 20%	190 Max.	1.30 Max.	△L/L≦-30%	1.10 △T≦40℃ ℃		上限 下限	4.2 3.8	4.2 3.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	4. 53	151	3.65	-19.43%	OK			4. 04	3.98	1.12
2	4. 41	152	3.68	-16.55%	OK			4. 00	3.98	1.14
3	4. 37	154	3.56	-18.54%	OK			3. 98	4.01	1.12
4	4. 69	158	3.85	-17.91%	OK			4. 04	3.98	1.12
5	4. 28	152	3.62	-15.42%	OK			4. 00	3.98	1.14
6	4. 52	156	3.64	-19.47%	OK			4. 04	3.98	1.12
7	4. 61	159	3.70	-19.74%	OK			4. 00	3.98	1.14
8	4. 52	154	3.65	-19.25%	OK			3. 98	4.01	1.12
9	4. 41	152	3.68	-16.55%	OK			4. 05	3.98	1.13
10	4. 51	155	3.65	-19.07%	OK			4. 02	3.98	1.10
AVG.	**4.485**	**154.3**	**3.668**	**-18.19%**				**4.015**	**3.986**	**1.125**
R	**0.41**	**8**	**0.29**	**4.32%**				**0.07**	**0.03**	**0.04**

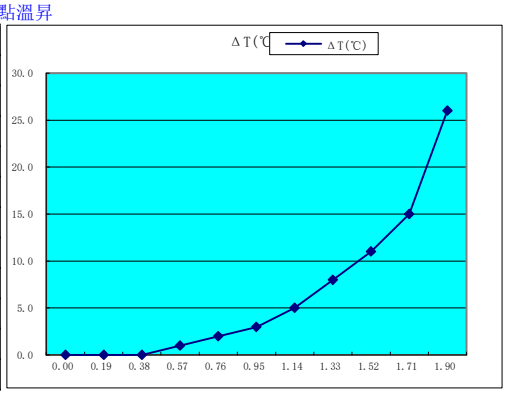
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	4.46	0.00%
1	0.19	4.42	-0.90%
1	0.38	4.46	0.00%
1	0.57	4.45	-0.22%
1	0.76	4.42	-0.90%
1	0.95	4.30	-3.59%
1	1.14	4.16	-6.73%
1	1.33	3.93	-11.88%
1	1.52	3.52	-21.08%
1	1.71	2.93	-34.30%
1	1.90	2.22	-50.22%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	4.40	0.00%	28.0	0.0
30	0.19	4.39	-0.23%	28.0	0.0
30	0.38	4.36	-0.91%	28.0	0.0
30	0.57	4.40	0.00%	29.0	1.0
30	0.76	4.39	-0.23%	30.0	2.0
30	0.95	4.33	-1.59%	31.0	3.0
30	1.14	4.24	-3.64%	33.0	5.0
30	1.33	4.10	-6.82%	36.0	8.0
30	1.52	3.88	-11.82%	39.0	11.0
30	1.71	2.93	-33.41%	43.0	15.0
30	1.90	2.20	-50.00%	54.0	26.0



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SPECIFICATION FOR APPROVAL

RoHS Compliance

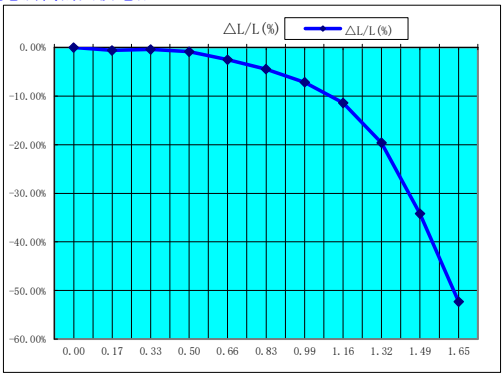
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4012B-6R8MC	TEST R.H.	80~85%
PART NO.	CKNR4012B Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	CKNR4012B Series

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%	280 Max.	1.10 Max.	△L/L≦-30%	1.00 △T≦40℃ ℃					上限 下限	4.2 3.8	4.2 3.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V										
1	6. 69	223	5.73	-14.35%	OK						4.00	4.02	1.15
2	6. 54	224	5.62	-14.07%	OK						4.00	4.03	1.16
3	6. 52	224	5.50	-15.64%	OK						4.01	4.04	1.12
4	6. 59	225	5.60	-15.02%	OK						4.00	4.02	1.14
5	6. 61	224	5.64	-14.67%	OK						4.02	4.03	1.16
6	6. 56	224	5.63	-14.18%	OK						3.99	4.02	1.14
7	6. 58	224	5.62	-14.59%	OK						3.98	4.01	1.15
8	6. 77	225	5.68	-16.10%	OK						4.05	4.00	1.15
9	6. 44	226	5.70	-11.49%	OK						4.06	4.00	1.14
10	6. 77	231	5.70	-15.81%	OK						4.02	4.00	1.11
AVG.	**6.607**	**225**	**5.642**	**-14.59%**							**4.013**	**4.017**	**1.142**
R	**0.33**	**8**	**0.23**	**4.61%**							**0.08**	**0.04**	**0.05**

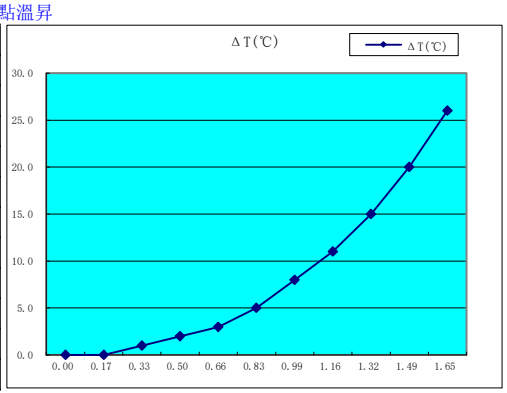
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	6.73	0.00%
1	0.17	6.69	-0.59%
1	0.33	6.70	-0.45%
1	0.50	6.67	-0.89%
1	0.66	6.56	-2.53%
1	0.83	6.43	-4.46%
1	0.99	6.25	-7.13%
1	1.16	5.96	-11.44%
1	1.32	5.41	-19.61%
1	1.49	4.43	-34.18%
1	1.65	3.21	-52.30%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	6.57	0.00%	30.0	0.0
30	0.17	6.48	-1.37%	30.0	0.0
30	0.33	6.55	-0.30%	31.0	1.0
30	0.50	6.44	-1.98%	32.0	2.0
30	0.66	6.31	-3.96%	33.0	3.0
30	0.83	6.16	-6.24%	35.0	5.0
30	0.99	5.97	-9.13%	38.0	8.0
30	1.16	5.64	-14.16%	41.0	11.0
30	1.32	5.08	-22.68%	45.0	15.0
30	1.49	4.27	-35.01%	50.0	20.0
30	1.65	3.30	-49.77%	56.0	26.0



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SPECIFICATION FOR APPROVAL

RoHS Compliance

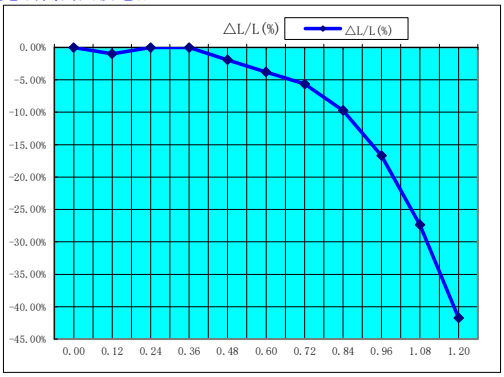
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4012B-100MC	TEST R.H.	80~85%
PART NO.	CKNR4012B Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	CKNR4012B Series

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%	410 Max.	0.8 Max.	△L/L≦-30%	0.80 △T≦40℃ ℃		上限 下限	4.2 3.8	4.2 3.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	10.7	338	9.40	-12.1%	OK			4.00	4.02	1.15
2	10.3	336	9.21	-10.6%	OK			4.00	4.03	1.16
3	10.5	338	9.31	-11.3%	OK			4.01	4.04	1.12
4	10.3	331	9.15	-11.2%	OK			4.00	4.02	1.14
5	10.7	336	9.25	-13.6%	OK			4.02	4.03	1.16
6	10.4	337	8.99	-13.6%	OK			3.99	4.02	1.14
7	10.7	340	9.01	-15.8%	OK			3.98	4.01	1.15
8	10.4	337	8.89	-14.5%	OK			4.05	4.00	1.15
9	10.4	335	9.12	-12.3%	OK			4.06	4.00	1.14
10	10.4	335	9.00	-13.5%	OK			4.02	4.00	1.11
AVG.	**10.480**	**336.3**	**9.133**	**-12.84%**				**4.013**	**4.017**	**1.142**
R	**0.4**	**9**	**0.51**	**5.21%**				**0.08**	**0.04**	**0.05**

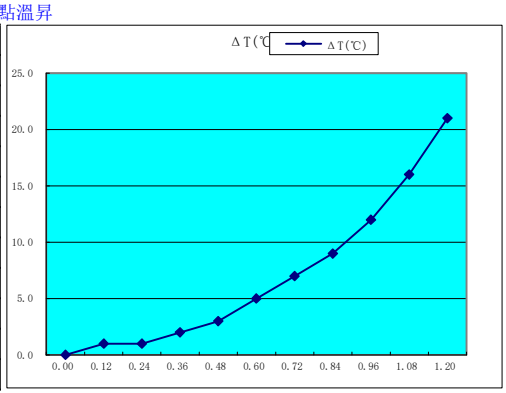
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	10.5	0.00%
1	0.12	10.4	-0.95%
1	0.24	10.5	0.00%
1	0.36	10.5	0.00%
1	0.48	10.3	-1.90%
1	0.60	10.1	-3.81%
1	0.72	9.91	-5.62%
1	0.84	9.48	-9.71%
1	0.96	8.75	-16.67%
1	1.08	7.63	-27.33%
1	1.20	6.12	-41.71%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	10.8	0.00%	30.0	0.0
30	0.12	10.7	-0.93%	31.0	1.0
30	0.24	10.8	0.00%	31.0	1.0
30	0.36	10.7	-0.93%	32.0	2.0
30	0.48	10.5	-2.78%	33.0	3.0
30	0.60	10.2	-5.56%	35.0	5.0
30	0.72	9.93	-8.06%	37.0	7.0
30	0.84	9.35	-13.43%	39.0	9.0
30	0.96	8.40	-22.22%	42.0	12.0
30	1.08	7.08	-34.44%	46.0	16.0
30	1.20	5.57	-48.43%	51.0	21.0



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

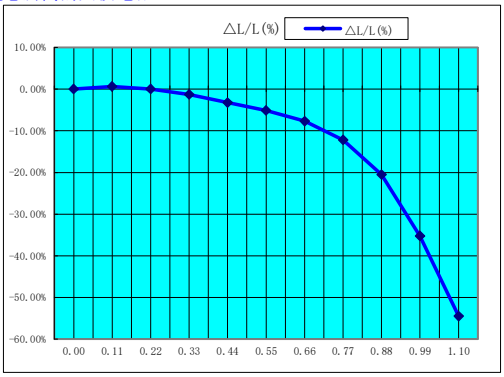
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4012B-150MC	TEST R.H.	80~85%
PART NO.	CKNR4012B Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

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.	15.0 ± 20%	624 Max.	0.7 Max.	△L/L≦-30%	0.70 △T≦40℃ ℃		上限 下限	4.2 3.8	4.2 3.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	15.5	494	13.0	-16.13%	OK			4.01	4.02	1.15
2	15.8	492	12.7	-19.62%	OK			4.02	4.03	1.16
3	16.1	500	13.0	-19.25%	OK			4.03	4.03	1.14
4	15.9	502	12.6	-20.75%	OK			4.01	4.02	1.14
5	15.7	493	12.9	-17.83%	OK			4.00	4.02	1.14
6	15.8	501	12.8	-18.99%	OK			4.02	3.99	1.15
7	15.6	497	12.9	-17.31%	OK			4.02	3.98	1.16
8	15.7	513	12.4	-21.02%	OK			4.05	4.05	1.12
9	16.0	494	12.5	-21.88%	OK			3.99	4.06	1.11
10	15.7	507	12.8	-18.47%	OK			3.98	4.00	1.19
AVG.	**15.780**	**499.3**	**12.76**	**-19.13%**				**4.013**	**4.02**	**1.146**
R	**0.6**	**21**	**0.6**	**5.75%**				**0.07**	**0.08**	**0.08**

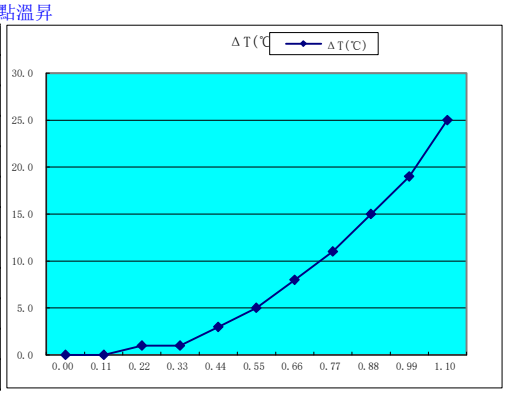
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	15.6	0.00%
1	0.11	15.7	0.64%
1	0.22	15.6	0.00%
1	0.33	15.4	-1.28%
1	0.44	15.1	-3.21%
1	0.55	14.8	-5.13%
1	0.66	14.4	-7.69%
1	0.77	13.7	-12.18%
1	0.88	12.4	-20.51%
1	0.99	10.1	-35.26%
1	1.10	7.10	-54.49%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	15.5	0.00%	31.0	0.0
30	0.11	15.4	-0.65%	31.0	0.0
30	0.22	15.4	-0.65%	32.0	1.0
30	0.33	15.0	-3.23%	32.0	1.0
30	0.44	14.6	-5.81%	34.0	3.0
30	0.55	14.2	-8.39%	36.0	5.0
30	0.66	13.7	-11.61%	39.0	8.0
30	0.77	12.9	-16.77%	42.0	11.0
30	0.88	11.5	-25.81%	46.0	15.0
30	0.99	9.70	-37.42%	50.0	19.0
30	1.10	7.51	-51.55%	56.0	25.0



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SPECIFICATION FOR APPROVAL

RoHS Compliance

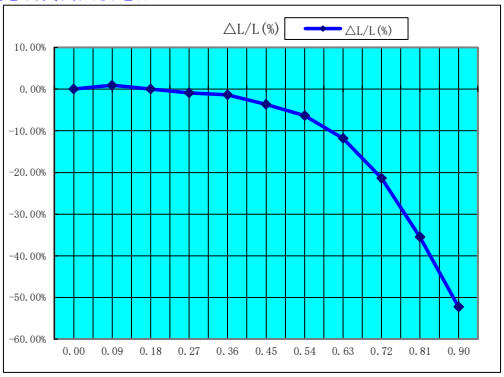
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4012B-220MC	TEST R.H.	80~85%
PART NO.	CKNR4012B Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

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.	22.0 ± 20%	924 Max.	0.60 Max.	△L/L≦-30%	0.55 △T≦40℃ ℃		上限 下限	4.2 3.8	4.2 3.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	21.9	738	18.0	-17.81%	OK			4.01	4.02	1.15
2	23.4	758	18.3	-21.79%	OK			4.02	4.03	1.16
3	21.5	768	17.0	-20.93%	OK			4.03	4.03	1.14
4	23.2	755	18.6	-19.83%	OK			4.01	4.02	1.14
5	22.0	765	17.5	-20.45%	OK			4.00	4.02	1.14
6	21.9	763	17.4	-20.55%	OK			4.02	3.99	1.15
7	21.5	762	17.1	-20.47%	OK			4.02	3.98	1.16
8	21.7	759	16.9	-22.12%	OK			4.05	4.05	1.12
9	21.3	733	17.2	-19.25%	OK			3.99	4.06	1.11
10	22.3	733	17.4	-21.97%	OK			3.98	4.00	1.19
AVG.	**22.070**	**753.4**	**17.54**	**-20.52%**				**4.013**	**4.02**	**1.146**
R	**2.1**	**35**	**1.7**	**4.31%**				**0.07**	**0.08**	**0.08**

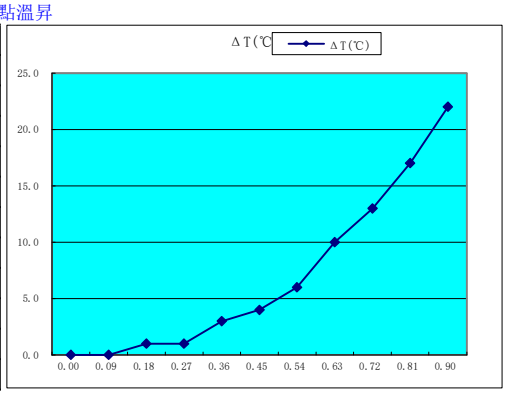
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	22.00	0.00%
1	0.09	22.20	0.91%
1	0.18	22.00	0.00%
1	0.27	21.80	-0.91%
1	0.36	21.70	-1.36%
1	0.45	21.20	-3.64%
1	0.54	20.60	-6.36%
1	0.63	19.40	-11.82%
1	0.72	17.30	-21.36%
1	0.81	14.20	-35.45%
1	0.90	10.50	-52.27%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	21.70	0.00%	31.0	0.0
30	0.09	21.80	0.46%	31.0	0.0
30	0.18	21.40	-1.38%	32.0	1.0
30	0.27	21.00	-3.23%	32.0	1.0
30	0.36	20.40	-5.99%	34.0	3.0
30	0.45	19.90	-8.29%	35.0	4.0
30	0.54	19.20	-11.52%	37.0	6.0
30	0.63	18.10	-16.59%	41.0	10.0
30	0.72	16.30	-24.88%	44.0	13.0
30	0.81	13.90	-35.94%	48.0	17.0
30	0.90	11.10	-48.85%	53.0	22.0



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

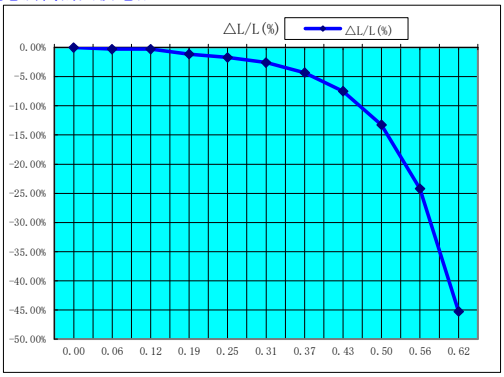
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4012B-330MC	TEST R.H.	80~85%
PART NO.	CKNR4012B Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

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.	33.0 ± 20%	1200 Max.	0.42 Max.	△L/L≦-30%	0.40 △T≦40℃ ℃		上限 下限	4.2 3.8	4.2 3.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	31.3	970	27.1	-13.42%	OK			4.01	4.02	1.15
2	32.2	1020	26.5	-17.70%	OK			4.02	4.03	1.16
3	31.5	1000	26.5	-15.87%	OK			4.03	4.03	1.14
4	31.4	980	26.3	-16.24%	OK			4.01	4.02	1.14
5	32.3	980	27.0	-16.41%	OK			4.00	4.02	1.14
6	32.2	1000	25.9	-19.57%	OK			4.02	3.99	1.15
7	31.6	1010	26.5	-16.14%	OK			4.02	3.98	1.16
8	32.4	1000	26.8	-17.28%	OK			4.05	4.05	1.12
9	31.3	1020	26.9	-14.06%	OK			3.99	4.06	1.11
10	32.3	1030	26.3	-18.58%	OK			3.98	4.00	1.19
AVG.	**31.850**	**1001**	**26.58**	**-16.53%**				**4.013**	**4.02**	**1.146**
R	**1.1**	**60**	**1.2**	**6.15%**				**0.07**	**0.08**	**0.08**

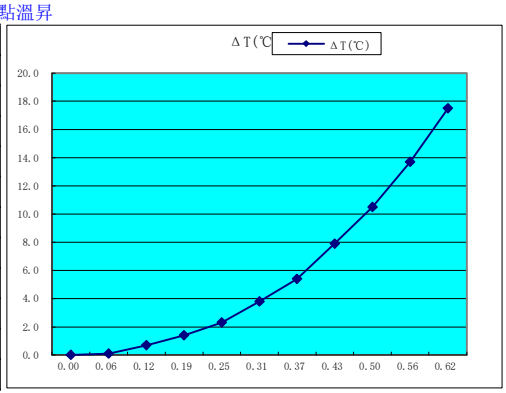
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	34.7	0.00%
1	0.06	34.6	-0.29%
1	0.12	34.6	-0.29%
1	0.19	34.3	-1.15%
1	0.25	34.1	-1.73%
1	0.31	33.8	-2.59%
1	0.37	33.2	-4.32%
1	0.43	32.1	-7.49%
1	0.50	30.1	-13.26%
1	0.56	26.3	-24.21%
1	0.62	19.0	-45.24%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	34.5	0.00%	26.0	0.0
30	0.06	34.5	0.00%	26.1	0.1
30	0.12	34.3	-0.58%	26.7	0.7
30	0.19	34.0	-1.45%	27.4	1.4
30	0.25	33.8	-2.03%	28.3	2.3
30	0.31	33.3	-3.48%	29.8	3.8
30	0.37	31.2	-9.57%	31.4	5.4
30	0.43	30.8	-10.72%	33.9	7.9
30	0.50	28.0	-18.84%	36.5	10.5
30	0.56	23.3	-32.46%	39.7	13.7
30	0.62	16.8	-51.30%	43.5	17.5



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

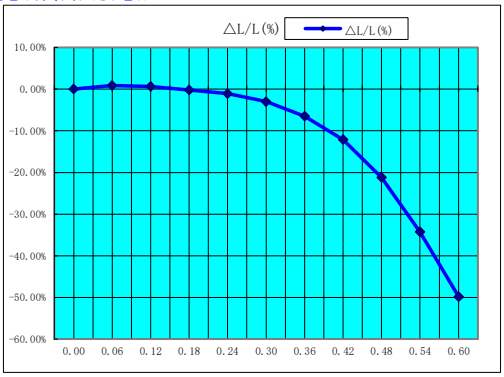
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4012B-470MC	TEST R.H.	80~85%
PART NO.	CKNR4012B Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

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.	47.0 ± 20%	1920 Max.	0.35 Max.	△L/L≦-30%	0.37 △T≦40℃ ℃		上限 下限	4.2 3.8	4.2 3.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	43.1	1550	40.0	-7.19%	OK			4.00	3.99	1.15
2	42.5	1560	39.1	-8.00%	OK			4.00	4.03	1.15
3	44.4	1530	39.8	-10.36%	OK			4.02	4.05	1.14
4	45.1	1600	40.0	-11.31%	OK			4.03	4.04	1.15
5	43.2	1550	39.0	-9.72%	OK			4.01	4.03	1.15
6	45.1	1530	40.3	-10.64%	OK			4.01	4.02	1.18
7	44.3	1580	40.0	-9.71%	OK			4.05	3.99	1.15
8	45.9	1550	40.0	-12.85%	OK			4.07	4.01	1.16
9	44.8	1550	40.2	-10.27%	OK			4.08	4.00	1.14
10	44.1	1520	40.5	-8.16%	OK			4.02	4.00	1.17
AVG.	**44.250**	**1552**	**39.89**	**-9.82%**				**4.029**	**4.016**	**1.154**
R	**3.4**	**80**	**1.5**	**5.66%**				**0.08**	**0.06**	**0.04**

Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	46.2	0.00%
1	0.06	46.6	0.87%
1	0.12	46.5	0.65%
1	0.18	46.1	-0.22%
1	0.24	45.7	-1.08%
1	0.30	44.8	-3.03%
1	0.36	43.2	-6.49%
1	0.42	40.6	-12.12%
1	0.48	36.4	-21.21%
1	0.54	30.4	-34.20%
1	0.60	23.2	-49.78%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	45.2	0.00%	30.0	0.0
30	0.06	45.4	0.44%	31.0	1.0
30	0.12	45.1	-0.22%	31.0	1.0
30	0.18	44.5	-1.55%	31.0	1.0
30	0.24	44.3	-1.99%	32.0	2.0
30	0.30	43.1	-4.65%	33.0	3.0
30	0.36	41.4	-8.41%	35.0	5.0
30	0.42	38.6	-14.60%	37.0	7.0
30	0.48	34.4	-23.89%	39.0	9.0
30	0.54	28.7	-36.50%	42.0	12.0
30	0.60	22.5	-50.22%	45.0	15.0

