承　　认　　书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	03/Apr/2025	REVISION NO.	A
PART NO.	CKNR3012BLD 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
03/Apr/2025	03/Apr/2025	03/Apr/2025

广 东 今 凯 电 子 科 技 有 限 公 司

GUANG DONG CHK ELECTRONIC TECH Co., Ltd

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GUANG DONG CHK ELECTRONIC TECH Co., Ltd

ECN HISTORY LIST

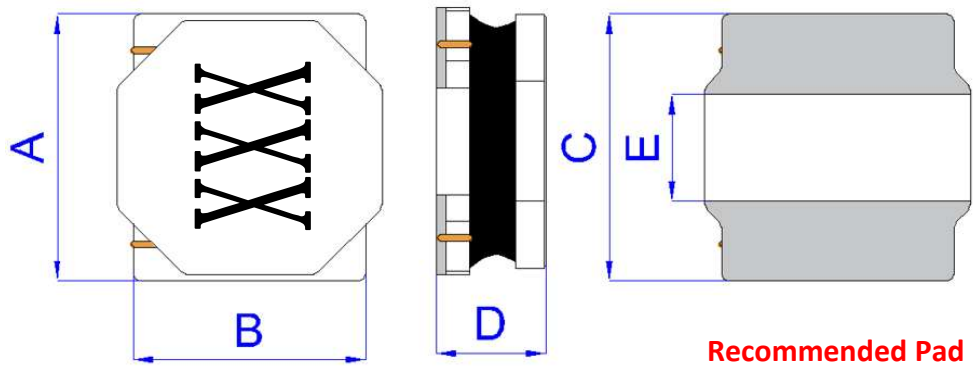
REV	DATE	DESCRIPTION	CHECK	APPROVED
A	2025/4/3	新作成	林树英	黄大燕

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GUANG DONG CHK ELECTRONIC TECH Co., Ltd

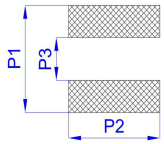
CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 1/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR3012BLD Series	DATE	2025/4/3

1.SHAPE & DIMENSION

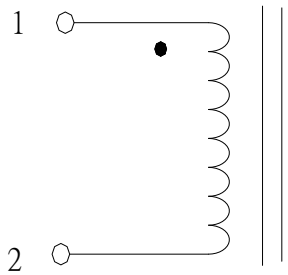
UNIT: mm



Recommended Pad



SCHEMATICS



MARKING COLOR

NA

A	B	C	D	E	P1	P2	P3
3	3	3	1.1	1.2	3.0	2.7	1.4
±0.2	±0.2	±0.2	±0.1	±0.25	Ref.	Ref.	Ref.

PART NUMBERING SYSTEM

CK	NR	3012	BLD	-	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

APPROVED BY	CHECKED BY	DRAFT BY
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CUSTOMER	0	REVISION NO.	A
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DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR3012BLD Series	DATE	2025/4/3

2.SERIES SPECIFICATION

◆ CKNR3012BLD Series Specification:

Part Number	Inductance	Test Freq	DCR(mΩ)		Saturation Current (A)		Temp.Rise Current (A)	
	(μH)	(Hz)	Max	Typ	Max	Typ	Max	Typ
CKNR3012BLD-1R0YC	1.0	100KHz/1V	60	52	1.90	2.10	2.10	2.70
CKNR3012BLD-1R2YC	1.2		71	60	1.75	1.90	2.00	2.60
CKNR3012BLD-1R5YC	1.5		72	58	1.40	1.60	1.90	2.50
CKNR3012BLD-2R2MC	2.2		96	85	1.10	1.20	1.80	2.40
CKNR3012BLD-3R3MC	3.3		120	105	0.95	1.05	1.70	2.30
CKNR3012BLD-4R7MC	4.7		156	140	0.77	0.95	1.50	2.00
CKNR3012BLD-6R8MC	6.8		228	205	0.65	0.70	1.40	1.80
CKNR3012BLD-100MC	10		348	286	0.54	0.65	1.30	1.60
CKNR3012BLD-150MC	15		540	437	0.44	0.48	1.00	1.30
CKNR3012BLD-220MC	22		756	531	0.37	0.46	0.80	1.00
CKNR3012BLD-330MC	33		1236	850	0.31	0.33	0.70	0.90
CKNR3012BLD-470MC	47		1740	1330	0.25	0.30	0.60	0.80
CKNR3012BLD-680MC	68		2160	1710	0.22	0.26	0.27	0.70
CKNR3012BLD-820MC	82		2660	2120	0.19	0.21	0.24	0.60

◆TEST CONDITION

ITEM	TEST CONDITION	TEST INSTRUMENTS
L	100KHz/1V	Microtest 6377
Isat		TH1773+Microtest 6377
Irms		
DCR	25±5℃	TH2512B

*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 CKNR3012BLD 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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CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 3/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR3012BLD Series	DATE	2025/4/3

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	DAJOO	RoHS	
锡（Solder)	107H	QD	RoHS	Primary
锡（Solder)	107H	TF	RoHS	Alternative

GENERAL SPECIFICATION	
Electrical specifications ：	at 20~25℃
Operation Temperature：	-40~+125℃
Storage Temperature：	-40~+125℃

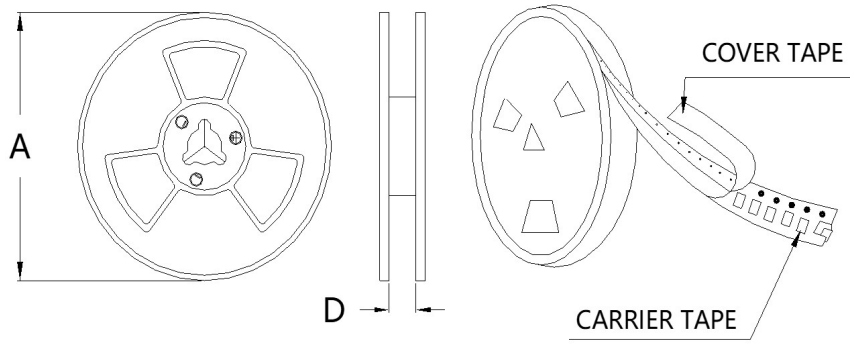
APPROVED BY	CHECKED BY	DRAWN BY
黄大燕	黄大燕	林树英

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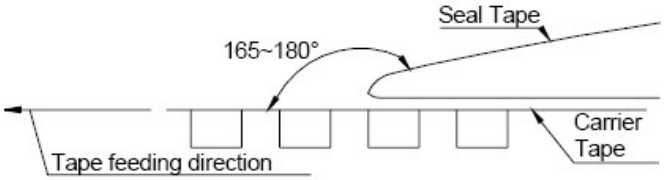
CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 4/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR3012BLD Series	DATE	2025/4/3

4.PACKAGING(unit: mm)

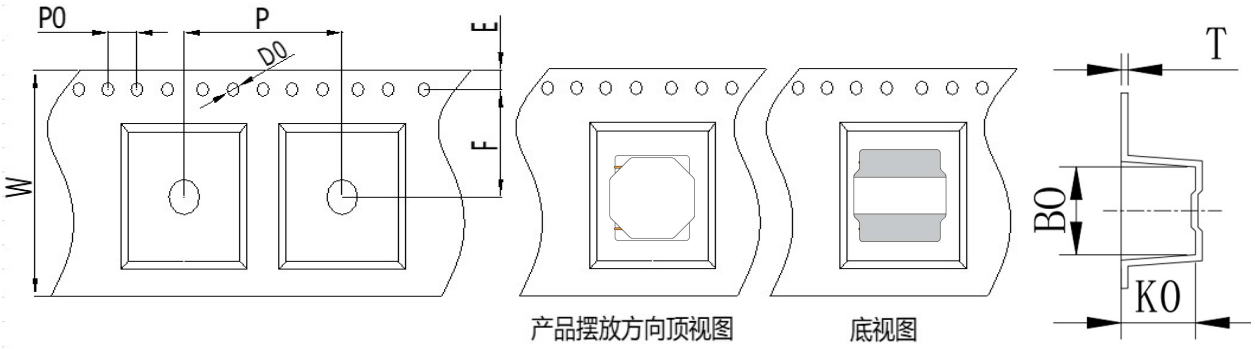
1.包装类型 **2.包装尺寸** □ 13″ 盘 ■ 7″ 盘



	13″ 盘	7″ 盘
A	Φ330±2.0	Φ178±2.0
D	8.4	



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



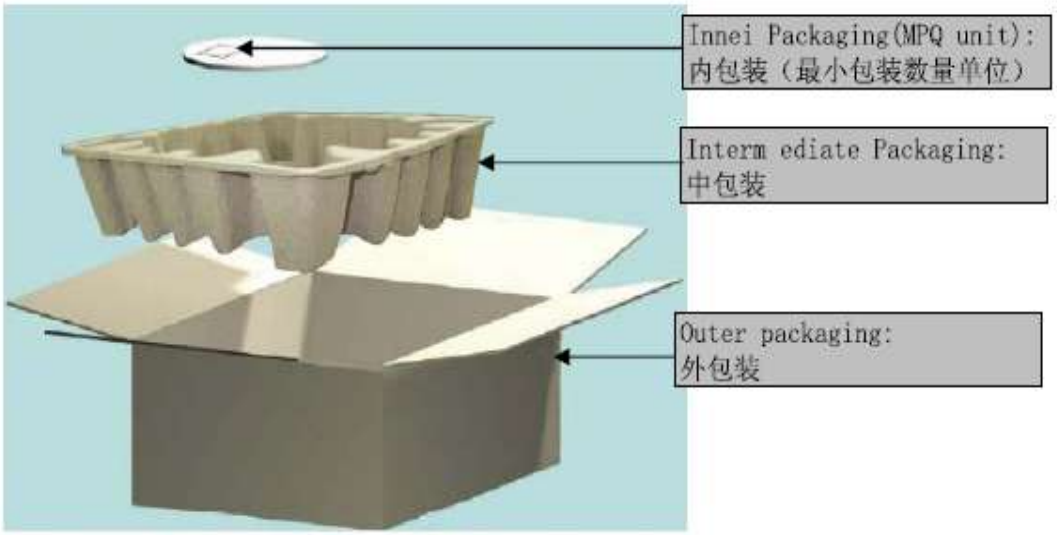
Item	W	B0	P	T	E	F	D0	P0	K0	
DIM(mm)	8.0±0.3	3.3±0.1	4.0±0.1	0.3±0.05	1.75±0.1	3.5±0.1	1.5±0.1	4.0±0.1	1.35±0.1	

APPROVED BY	CHECKED BY	DRAFT
黄大燕	黄大燕	林树英

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DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR3012BLD Series	DATE	2025/4/3

5. CARTON



1.1 外箱: 40*40*17 cm 一纸托装一箱
1.2 内箱: CAG002(装7寸卷盘TRAY盘)
1.3 外箱材質: 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.)

卷轴包装数量		
每卷	2000	PCS

外箱包装数量				
每箱	40	卷,共	80000	PCS

储存条件及期限：
温度：20-25℃
湿度：≦70%
时间：六个月

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CUSTOMER'S P/N	0	PAGE	P 6/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR3012BLD Series	DATE	2025/4/3

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
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7. SOLDERING CONDITIONS

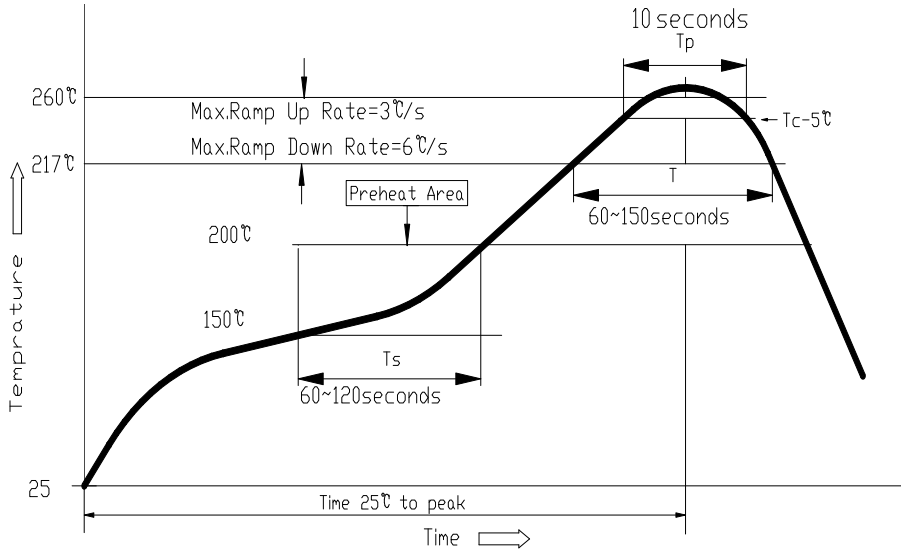
Applicable soldering process to the products is refl.

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

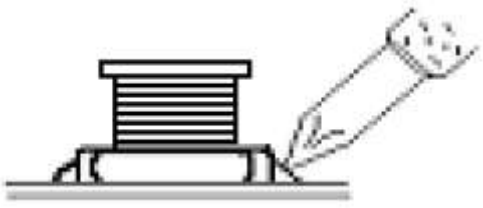
Reworking with electric solding iron must preheating at 150℃ for 1 minute is required,and do not directly touch the core with the tip of the soldering iron.The reworking soldering conditions are as follows.

①Temperature of soldering iron tip:350℃；

② Soldering iron power output:≤30W；

③ Diameter of soldering iron end:≤1.0mm；

④Soldering time:＜3 s

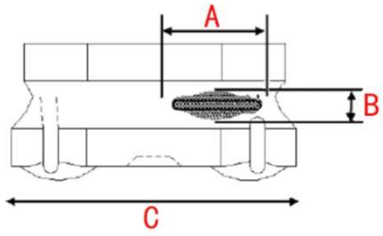


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黄大燕	黄大燕	林树英

CUSTOMER	0	REVISION NO.	A
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DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR3012BLD Series	DATE	2025/4/3

8.Appearance of the standard

1.Void appearance tolerance limit



Size of voids occurring to coating resin is specified below.

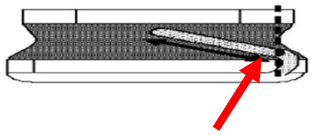
①Width direction(dimension A): Acceptable when A<=C/2

Nonconforming when B>=C/2

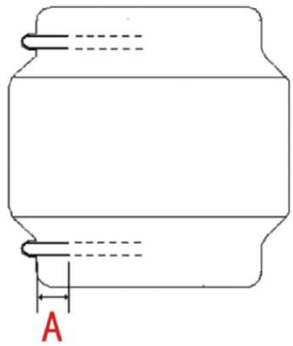
②Length direction(dimension B):Dimension b is not specified

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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SPECIFICATION FOR APPROVAL

RoHS Compliance

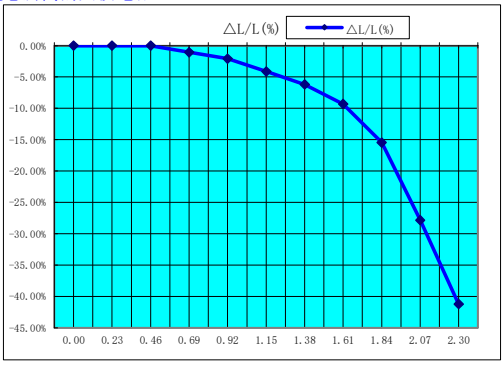
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR3012BLD-1R0YC	TEST R.H.	80~85%
PART NO.	CKNR3012BLD Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/4/3

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%	60 Max.	1.50 Max.	△L/L≦-30%	1.49 ΔT≦40℃ ℃		上限 下限	3.2 2.8	3.2 2.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	1.09	53.0	0.93	-14.68%	OK			2.99	3.01	1.13
2	1.11	51.5	0.95	-14.41%	OK			3.00	3.02	1.12
3	1.09	50.2	0.96	-11.93%	OK			2.99	3.01	1.12
4	1.08	50.6	0.96	-11.11%	OK			2.98	3.00	1.13
5	1.10	54.5	0.92	-16.36%	OK			3.00	3.02	1.12
6	1.09	53.9	0.98	-10.09%	OK			3.01	3.00	1.13
7	1.10	51.7	0.95	-13.64%	OK			3.00	2.98	1.11
8	1.09	49.6	0.94	-13.76%	OK			3.00	3.02	1.10
9	1.12	50.0	0.95	-15.18%	OK			2.99	3.01	1.13
10	1.09	49.1	0.94	-13.76%	OK			3.02	3.00	1.12
AVG.	**1.096**	**51.41**	**0.948**	**-13.49%**				**2.998**	**3.007**	**1.121**
R	**0.04**	**5.4**	**0.06**	**6.27%**				**0.04**	**0.04**	**0.03**

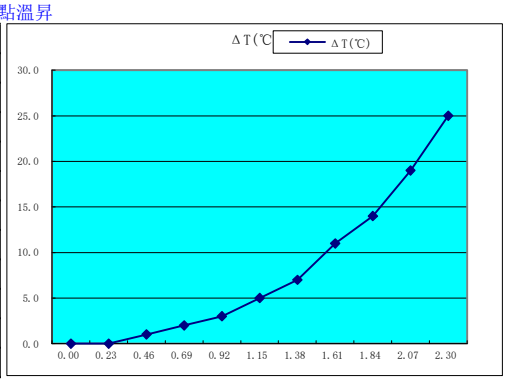
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	0.97	0.00%
1	0.23	0.97	0.00%
1	0.46	0.97	0.00%
1	0.69	0.96	-1.03%
1	0.92	0.95	-2.06%
1	1.15	0.93	-4.12%
1	1.38	0.91	-6.19%
1	1.61	0.88	-9.28%
1	1.84	0.82	-15.46%
1	2.07	0.70	-27.84%
1	2.30	0.57	-41.24%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	0.96	0.00%	27.0	0.0
30	0.23	0.96	0.00%	27.0	0.0
30	0.46	0.96	0.00%	28.0	1.0
30	0.69	0.96	0.00%	29.0	2.0
30	0.92	0.95	-1.04%	30.0	3.0
30	1.15	0.93	-3.12%	32.0	5.0
30	1.38	0.92	-4.17%	34.0	7.0
30	1.61	0.89	-7.29%	38.0	11.0
30	1.84	0.84	-12.50%	41.0	14.0
30	2.07	0.74	-22.92%	46.0	19.0
30	2.30	0.60	-37.50%	52.0	25.0



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SPECIFICATION FOR APPROVAL

RoHS Compliance

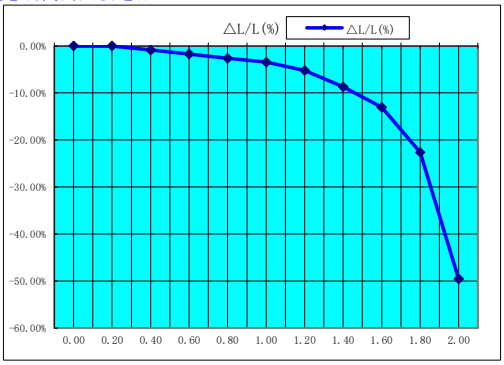
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR3012BLD-1R2YC	TEST R.H.	80~85%
PART NO.	CKNR3012BLD Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/4/3

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.	1.2 ± 30%	71 Max.	1.40 Max.	△L/L≦-30%	1.45 ΔT≦40℃ ℃				上限 下限	3.2 2.8	3.2 2.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	1. 24	58. 5	1.10	-11.29%	OK					2.99	3.01	1.13
2	1. 24	59. 8	1.08	-12.90%	OK					3.00	3.02	1.12
3	1. 22	55. 7	1.05	-13.93%	OK					2.99	3.01	1.12
4	1. 23	59. 8	1.03	-16.26%	OK					2.98	3.00	1.13
5	1. 22	57. 2	1.05	-13.93%	OK					3.00	3.02	1.12
6	1. 15	61. 9	1.01	-12.17%	OK					3.01	3.00	1.13
7	1. 17	60. 2	1.04	-11.11%	OK					3.00	2.98	1.11
8	1. 18	60. 7	1.05	-11.02%	OK					3.00	3.02	1.10
9	1. 22	56. 4	1.04	-14.75%	OK					2.99	3.01	1.13
10	1. 22	60. 2	1.10	-9.84%	OK					3.02	3.00	1.12
AVG.	**1.209**	**59.04**	**1.055**	**-12.72%**						**2.998**	**3.007**	**1.121**
R	**0.09**	**6.2**	**0.09**	**6.42%**						**0.04**	**0.04**	**0.03**

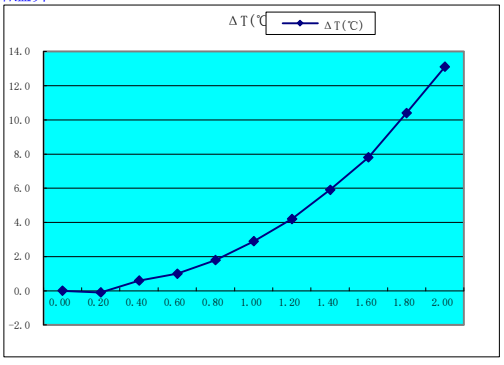
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	1.15	0.00%
1	0.20	1.15	0.00%
1	0.40	1.14	-0.87%
1	0.60	1.13	-1.74%
1	0.80	1.12	-2.61%
1	1.00	1.11	-3.48%
1	1.20	1.09	-5.22%
1	1.40	1.05	-8.70%
1	1.60	1.00	-13.04%
1	1.80	0.89	-22.61%
1	2.00	0.58	-49.57%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	1.13	0.00%	22.9	0.0
30	0.20	1.12	-0.88%	22.8	-0.1
30	0.40	1.12	-0.88%	23.5	0.6
30	0.60	1.12	-0.88%	23.9	1.0
30	0.80	1.11	-1.77%	24.7	1.8
30	1.00	1.10	-2.65%	25.8	2.9
30	1.20	1.08	-4.42%	27.1	4.2
30	1.40	1.04	-7.96%	28.8	5.9
30	1.60	0.97	-14.16%	30.7	7.8
30	1.80	0.82	-27.43%	33.3	10.4
30	2.00	0.49	-56.64%	36.0	13.1



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

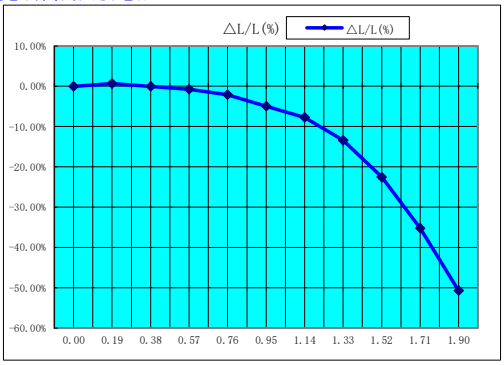
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR3012BLD-1R5YC	TEST R.H.	80~85%
PART NO.	CKNR3012BLD Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/4/3

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%	72 Max.	1.36 Max.	△L/L≦-30%	1.40 ΔT≦40℃				上限 下限	3.2 2.8	3.2 2.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	1.45	56.8	1.22	-15.86%	OK					2.99	3.02	1.14
2	1.44	59.1	1.20	-16.67%	OK					2.99	2.99	1.13
3	1.44	59.0	1.20	-16.67%	OK					2.98	3.05	1.12
4	1.40	57.6	1.18	-15.71%	OK					2.99	2.99	1.11
5	1.44	59.2	1.21	-15.97%	OK					3.01	3.02	1.12
6	1.45	57.8	1.21	-16.55%	OK					3.00	3.00	1.15
7	1.47	56.3	1.20	-18.37%	OK					3.00	2.98	1.14
8	1.43	56.7	1.21	-15.38%	OK					2.98	2.99	1.12
9	1.41	57.2	1.19	-15.60%	OK					3.02	3.01	1.12
10	1.43	57.7	1.19	-16.78%	OK					3.01	3.00	1.15
AVG.	**1.436**	**57.74**	**1.201**	**-16.36%**						**2.997**	**3.005**	**1.13**
R	**0.07**	**2.9**	**0.04**	**2.98%**						**0.04**	**0.07**	**0.04**

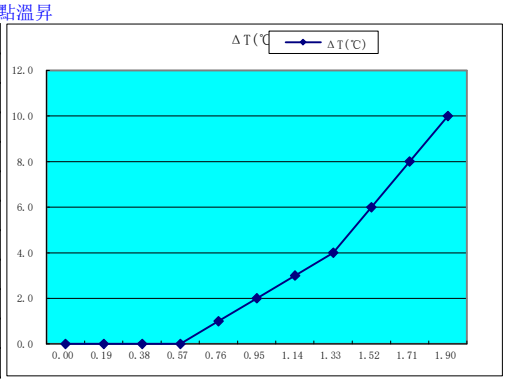
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	1.42	0.00%
1	0.19	1.43	0.70%
1	0.38	1.42	0.00%
1	0.57	1.41	-0.70%
1	0.76	1.39	-2.11%
1	0.95	1.35	-4.93%
1	1.14	1.31	-7.75%
1	1.33	1.23	-13.38%
1	1.52	1.10	-22.54%
1	1.71	0.92	-35.21%
1	1.90	0.70	-50.70%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	1.38	0.00%	29.0	0.0
30	0.19	1.36	-1.45%	29.0	0.0
30	0.38	1.37	-0.72%	29.0	0.0
30	0.57	1.35	-2.17%	29.0	0.0
30	0.76	1.33	-3.62%	30.0	1.0
30	0.95	1.29	-6.52%	31.0	2.0
30	1.14	1.25	-9.42%	32.0	3.0
30	1.33	1.17	-15.22%	33.0	4.0
30	1.52	1.04	-24.64%	35.0	6.0
30	1.71	0.87	-36.96%	37.0	8.0
30	1.90	0.68	-50.72%	39.0	10.0



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

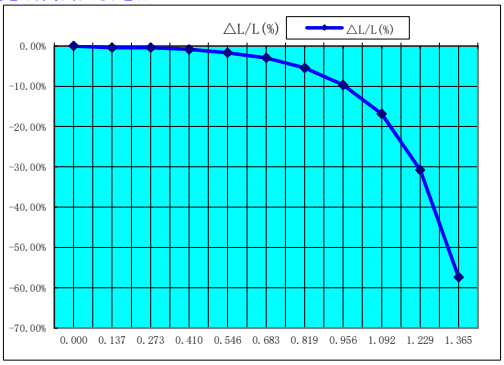
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR3012BLD-2R2MC	TEST R.H.	80~85%
PART NO.	CKNR3012BLD Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/4/3

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 ± 20%	96 Max.	1.10 Max.	△L/L≦-30%	1.20 △T≦40℃				上限 下限	3.2 2.8	3.2 2.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	2. 24	85. 3	1.89	-15.63%	OK					2.97	3.08	1.13
2	2. 26	87. 7	2.00	-11.50%	OK					2.98	3.02	1.12
3	2. 22	85. 4	1.89	-14.86%	OK					2.99	3.01	1.11
4	2. 25	86. 6	1.89	-16.00%	OK					2.99	3.07	1.13
5	2. 28	81. 0	1.88	-17.54%	OK					2.99	2.99	1.14
6	2. 30	86. 3	1.85	-19.57%	OK					3.00	2.98	1.10
7	2. 28	86. 6	1.89	-17.11%	OK					2.98	3.01	1.10
8	2. 29	83. 1	1.87	-18.34%	OK					2.98	3.05	1.12
9	2. 30	85. 3	1.85	-19.57%	OK					3.01	3.01	1.12
10	2. 34	86. 8	1.89	-19.23%	OK					3.03	2.98	1.14
AVG.	**2.276**	**85.41**	**1.89**	**-16.93%**						**2.992**	**3.02**	**1.121**
R	**0.12**	**6.7**	**0.15**	**8.06%**						**0.06**	**0.1**	**0.04**

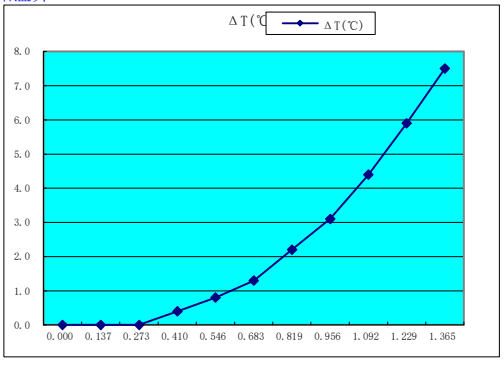
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.000	2.37	0.00%
1	0.137	2.36	-0.42%
1	0.273	2.36	-0.42%
1	0.410	2.35	-0.84%
1	0.546	2.33	-1.69%
1	0.683	2.30	-2.95%
1	0.819	2.24	-5.49%
1	0.956	2.14	-9.70%
1	1.092	1.97	-16.88%
1	1.229	1.64	-30.80%
1	1.365	1.01	-57.38%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.000	2.29	0.00%	29.2	0.0
30	0.137	2.29	0.00%	29.2	0.0
30	0.273	2.28	-0.44%	29.2	0.0
30	0.410	2.27	-0.87%	29.6	0.4
30	0.546	2.25	-1.75%	30.0	0.8
30	0.683	2.21	-3.49%	30.5	1.3
30	0.819	2.15	-6.11%	31.4	2.2
30	0.956	2.05	-10.48%	32.3	3.1
30	1.092	1.86	-18.78%	33.6	4.4
30	1.229	1.47	-35.81%	35.1	5.9
30	1.365	0.84	-63.32%	36.7	7.5



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

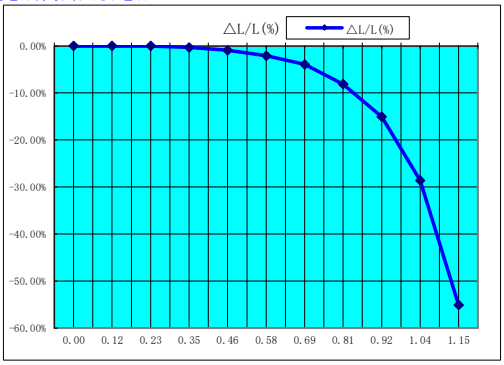
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR3012BLD-3R3MC	TEST R.H.	80~85%
PART NO.	CKNR3012BLD Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/4/3

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%	120 Max.	0.91 Max.	△L/L≦-30%	1.05 △T≦40℃				上限 下限	3.2 2.8	3.2 2.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	3. 14	107	2.73	-13.06%	OK					2.99	3.00	1.13
2	3. 15	105	2.74	-13.02%	OK					2.99	3.00	1.11
3	3. 18	102	2.75	-13.52%	OK					3.03	2.95	1.14
4	3. 11	106	2.70	-13.18%	OK					2.99	3.07	1.14
5	3. 18	106	2.78	-12.48%	OK					2.99	3.03	1.14
6	3. 12	104	2.73	-12.50%	OK					3.00	3.00	1.12
7	3. 24	108	2.71	-16.36%	OK					3.01	2.98	1.15
8	3. 22	103	2.70	-16.15%	OK					2.98	2.98	1.11
9	3. 21	109	2.72	-15.26%	OK					3.00	3.00	1.10
10	3. 22	105	2.75	-14.60%	OK					3.01	3.00	1.19
AVG.	**3.177**	**105.5**	**2.7313**	**-14.01%**						**2.999**	**3.0012**	**1.133**
R	**0.13**	**7**	**0.083**	**3.87%**						**0.05**	**0.12**	**0.09**

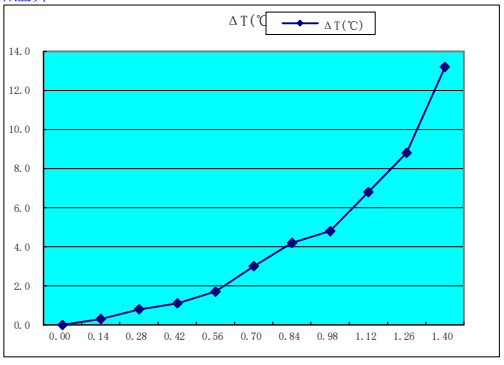
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	3.32	0.00%
1	0.12	3.32	0.00%
1	0.23	3.32	0.00%
1	0.35	3.31	-0.30%
1	0.46	3.29	-0.90%
1	0.58	3.25	-2.11%
1	0.69	3.19	-3.92%
1	0.81	3.05	-8.13%
1	0.92	2.82	-15.06%
1	1.04	2.37	-28.61%
1	1.15	1.49	-55.12%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	3.25	0.00%	25.0	0.0
30	0.14	3.25	0.00%	25.3	0.3
30	0.28	3.23	-0.62%	25.8	0.8
30	0.42	3.20	-1.54%	26.1	1.1
30	0.56	3.16	-2.77%	26.7	1.7
30	0.70	3.07	-5.54%	28.0	3.0
30	0.84	2.88	-11.38%	29.2	4.2
30	0.98	2.56	-21.23%	29.8	4.8
30	1.12	1.85	-43.08%	31.8	6.8
30	1.26	1.02	-68.62%	33.8	8.8
30	1.40	0.78	-76.00%	38.2	13.2



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

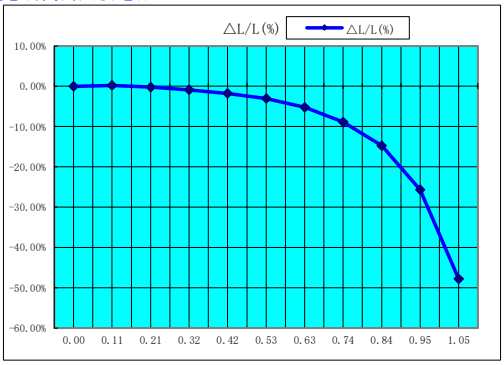
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR3012BLD-4R7MC	TEST R.H.	80~85%
PART NO.	CKNR3012BLD Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/4/3

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%	156 Max.	0.77 Max.	△L/L≦-30%	0.98 △T≦40℃ ℃				上限 下限	3.2 2.8	3.2 2.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	4. 48	140	3.91	-12.78%	OK					3.02	2.99	1.14
2	4. 50	139	3.92	-12.89%	OK					3.00	3.04	1.11
3	4. 49	142	3.87	-13.81%	OK					2.99	2.99	1.17
4	4. 49	140	3.80	-15.37%	OK					3.00	3.00	1.14
5	4. 43	144	3.87	-12.64%	OK					2.99	3.02	1.11
6	4. 49	140	3.91	-12.92%	OK					3.01	2.98	1.14
7	4. 52	139	3.85	-14.82%	OK					3.01	2.98	1.14
8	4. 51	139	3.88	-13.97%	OK					3.01	3.00	1.15
9	4. 51	142	3.87	-14.19%	OK					2.99	3.01	1.15
10	4. 54	144	3.87	-14.76%	OK					2.98	3.01	1.12
AVG.	**4.496**	**140.9**	**3.875**	**-13.81%**						**3**	**3.002**	**1.137**
R	**0.11**	**5**	**0.12**	**2.73%**						**0.04**	**0.06**	**0.06**

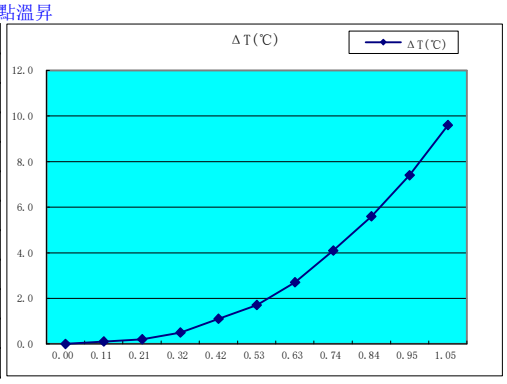
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	4.60	0.00%
1	0.11	4.61	0.22%
1	0.21	4.59	-0.22%
1	0.32	4.56	-0.87%
1	0.42	4.52	-1.74%
1	0.53	4.46	-3.04%
1	0.63	4.36	-5.22%
1	0.74	4.19	-8.91%
1	0.84	3.92	-14.78%
1	0.95	3.42	-25.65%
1	1.05	2.40	-47.83%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	4.64	0.00%	28.9	0.0
30	0.11	4.63	-0.22%	29.0	0.1
30	0.21	4.62	-0.43%	29.1	0.2
30	0.32	4.61	-0.65%	29.4	0.5
30	0.42	4.58	-1.29%	30.0	1.1
30	0.53	4.49	-3.23%	30.6	1.7
30	0.63	4.37	-5.82%	31.6	2.7
30	0.74	4.16	-10.34%	33.0	4.1
30	0.84	3.76	-18.97%	34.5	5.6
30	0.95	2.78	-40.09%	36.3	7.4
30	1.05	1.43	-69.18%	38.5	9.6



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

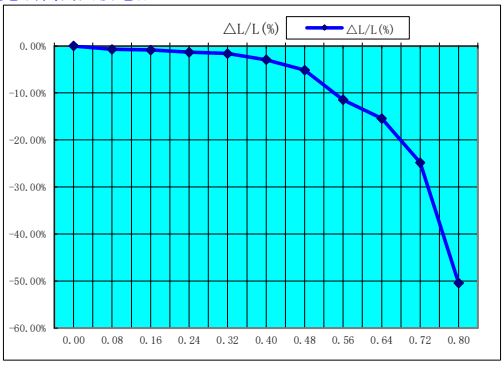
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR3012BLD-6R8MC	TEST R.H.	80~85%
PART NO.	CKNR3012BLD Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/4/3

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%	228 Max.	0.65 Max.	△L/L≦-30%	0.74 ΔT≦40℃ ℃				上限 下限	3.2 2.8	3.2 2.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	6. 63	196	5.66	-14.6%	OK					3.01	3.07	1.07
2	6. 57	205	5.64	-14.2%	OK					2.97	3.00	1.08
3	6. 67	203	5.66	-15.1%	OK					3.04	2.99	1.09
4	6. 59	202	5.71	-13.4%	OK					3.00	2.98	1.10
5	6. 60	204	5.60	-15.2%	OK					3.02	2.98	1.12
6	6. 70	204	5.54	-17.3%	OK					3.02	3.00	1.15
7	6. 61	203	5.68	-14.1%	OK					3.03	3.02	1.09
8	6. 68	202	5.65	-15.4%	OK					3.02	3.01	1.09
9	6. 64	201	5.68	-14.5%	OK					3.01	3.02	1.11
10	6. 70	201	5.63	-16.0%	OK					3.05	3.00	1.12
AVG.	**6.639**	**202.1**	**5.645**	**-14.97%**						**3.017**	**3.007**	**1.102**
R	**0.13**	**9**	**0.17**	**3.96%**						**0.08**	**0.09**	**0.08**

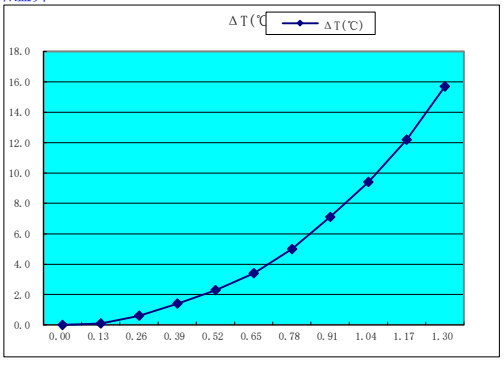
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	6.80	0.00%
1	0.08	6.75	-0.74%
1	0.16	6.74	-0.88%
1	0.24	6.71	-1.32%
1	0.32	6.69	-1.62%
1	0.40	6.60	-2.94%
1	0.48	6.45	-5.15%
1	0.56	6.02	-11.47%
1	0.64	5.75	-15.44%
1	0.72	5.11	-24.85%
1	0.80	3.37	-50.44%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	6.66	0.00%	28.4	0.0
30	0.13	6.64	-0.30%	28.5	0.1
30	0.26	6.54	-1.80%	29.0	0.6
30	0.39	6.42	-3.60%	29.8	1.4
30	0.52	6.12	-8.11%	30.7	2.3
30	0.65	5.43	-18.47%	31.8	3.4
30	0.78	3.70	-44.44%	33.4	5.0
30	0.91	1.80	-72.97%	35.5	7.1
30	1.04	1.41	-78.83%	37.8	9.4
30	1.17	1.28	-80.78%	40.6	12.2
30	1.30	1.02	-84.68%	44.1	15.7



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

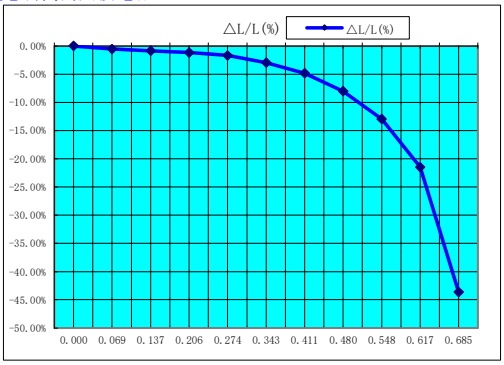
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR3012BLD-100MC	TEST R.H.	80~85%
PART NO.	CKNR3012BLD Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/4/3

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%	348 Max.	0.54 Max.	△L/L≦-30%	0.63 △T≦40℃ ℃				上限 下限	3.2 2.8	3.2 2.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	9. 23	287	8.08	-12.46%	OK					2.99	3.02	1.09
2	9. 26	290	7.98	-13.82%	OK					2.99	3.01.	1.09
3	9. 38	284	7.95	-15.25%	OK					2.99	3.02	1.09
4	9. 26	285	7.98	-13.82%	OK					2.99	2.99	1.07
5	9. 21	280	8.02	-12.92%	OK					2.99	2.99	1.05
6	9. 32	286	7.96	-14.59%	OK					3.01	3.01	1.11
7	9. 35	289	7.98	-14.65%	OK					3.01	3.01	1.13
8	9. 26	287	8.00	-13.61%	OK					3.02	2.98	1.09
9	9. 34	286	7.97	-14.67%	OK					3.01	2.98	1.08
10	9. 46	286	7.93	-16.17%	OK					2.99	3.01	1.15
AVG.	**9.307**	**286**	**7.985**	**-14.20%**						**2.999**	**3.001111111**	**1.0949**
R	**0.25**	**10**	**0.15**	**3.71%**						**0.03**	**0.04**	**0.1**

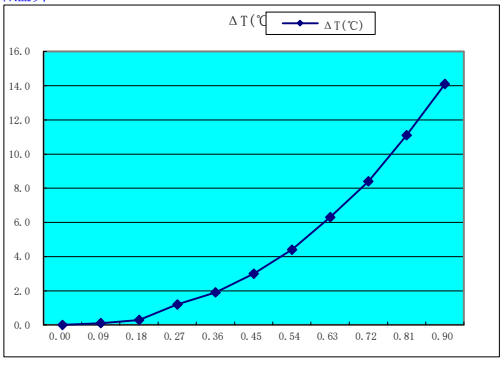
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.000	9.49	0.00%
1	0.069	9.44	-0.53%
1	0.137	9.41	-0.84%
1	0.206	9.38	-1.16%
1	0.274	9.33	-1.69%
1	0.343	9.21	-2.95%
1	0.411	9.03	-4.85%
1	0.480	8.73	-8.01%
1	0.548	8.26	-12.96%
1	0.617	7.45	-21.50%
1	0.685	5.35	-43.62%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	9.35	0.00%	27.7	0.0
30	0.09	9.35	0.00%	27.8	0.1
30	0.18	9.30	-0.53%	28.0	0.3
30	0.27	9.21	-1.50%	28.9	1.2
30	0.36	9.05	-3.21%	29.6	1.9
30	0.45	8.74	-6.52%	30.7	3.0
30	0.54	8.12	-13.16%	32.1	4.4
30	0.63	6.62	-29.20%	34.0	6.3
30	0.72	3.20	-65.78%	36.1	8.4
30	0.81	2.08	-77.75%	38.8	11.1
30	0.90	1.82	-80.53%	41.8	14.1



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SPECIFICATION FOR APPROVAL

RoHS Compliance

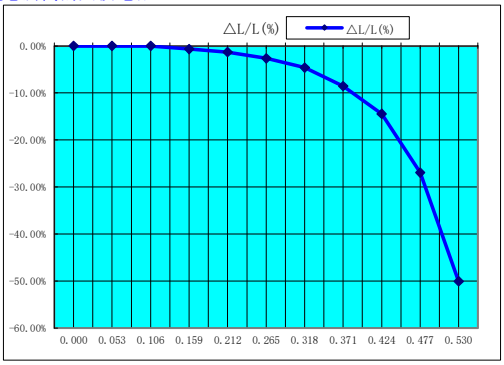
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR3012BLD-150MC	TEST R.H.	80~85%
PART NO.	CKNR3012BLD Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/4/3

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%	540 Max.	0.44 Max.	△L/L≦-30%	0.48 △T≦40℃ ℃				上限 下限	3.2 2.8	3.2 2.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	14.8	440	12.8	-13.51%	OK					3.00	3.01	1.11
2	14.9	435	12.6	-15.44%	OK					2.99	2.99	1.10
3	14.8	440	12.8	-13.51%	OK					2.99	3.02	1.10
4	14.9	432	12.6	-15.44%	OK					2.99	3.01	1.10
5	15.0	437	12.9	-14.00%	OK					2.99	3.03	1.09
6	15.0	437	12.8	-14.67%	OK					3.00	3.05	1.12
7	14.9	433	12.7	-14.77%	OK					3.01	2.99	1.14
8	15.2	432	12.9	-15.13%	OK					2.98	2.98	1.12
9	15.1	439	12.9	-14.57%	OK					2.99	2.97	1.11
10	15.2	437	12.7	-16.45%	OK					3.02	2.97	1.09
AVG.	**14.980**	**436.2**	**12.77**	**-14.75%**						**2.996**	**3.002**	**1.108**
R	**0.4**	**8**	**0.3**	**2.93%**						**0.04**	**0.08**	**0.05**

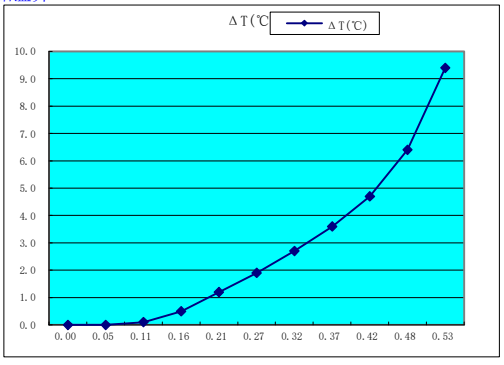
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.000	15.2	0.00%
1	0.053	15.2	0.00%
1	0.106	15.2	0.00%
1	0.159	15.1	-0.66%
1	0.212	15.0	-1.32%
1	0.265	14.8	-2.63%
1	0.318	14.5	-4.61%
1	0.371	13.9	-8.55%
1	0.424	13.0	-14.47%
1	0.477	11.1	-26.97%
1	0.530	7.59	-50.07%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	14.6	0.00%	25.8	0.0
30	0.05	14.5	-0.68%	25.8	0.0
30	0.11	14.5	-0.68%	25.9	0.1
30	0.16	14.4	-1.37%	26.3	0.5
30	0.21	14.3	-2.05%	27.0	1.2
30	0.27	14.1	-3.42%	27.7	1.9
30	0.32	13.7	-6.16%	28.5	2.7
30	0.37	13.1	-10.27%	29.4	3.6
30	0.42	12.1	-17.12%	30.5	4.7
30	0.48	10.5	-28.08%	32.2	6.4
30	0.53	7.61	-47.88%	35.2	9.4



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SPECIFICATION FOR APPROVAL

RoHS Compliance

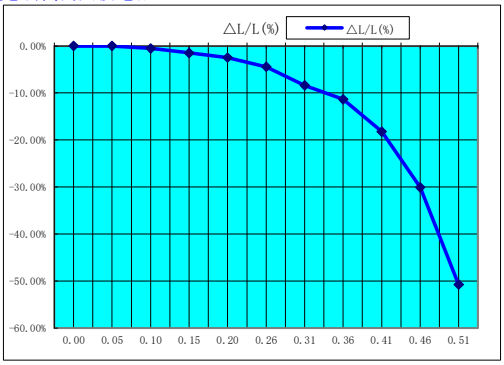
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR3012BLD-220MC	TEST R.H.	80~85%
PART NO.	CKNR3012BLD Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/4/3

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%	756 Max.	0.37 Max.	△L/L≦-30%	0.42 △T≦40℃ ℃				上限 下限	3.2 2.8	3.2 2.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	19.4	526	17.0	-12.37%	OK					2.99	3.04	1.09
2	19.5	534	17.5	-10.26%	OK					3.00	3.05	1.08
3	19.8	527	16.8	-15.15%	OK					2.99	3.04	1.09
4	19.9	528	17.3	-13.07%	OK					3.02	3.08	1.08
5	19.6	531	17.5	-10.71%	OK					2.99	3.03	1.10
6	19.5	530	17.5	-10.26%	OK					3.02	3.00	1.08
7	19.6	534	17.4	-11.22%	OK					3.01	3.00	1.12
8	19.6	533	17.0	-13.27%	OK					2.99	3.02	1.13
9	19.5	533	17.2	-11.79%	OK					3.01	2.99	1.11
10	19.4	534	17.1	-11.86%	OK					3.02	2.97	1.10
AVG.	**19.580**	**531**	**17.23**	**-12.00%**						**3.004**	**3.022**	**1.098**
R	**0.5**	**8**	**0.7**	**4.90%**						**0.03**	**0.11**	**0.05**

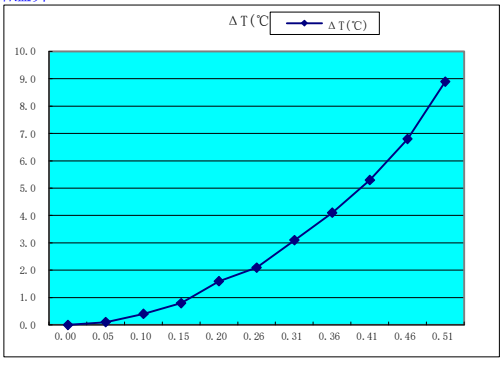
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	20.3	0.00%
1	0.05	20.3	0.00%
1	0.10	20.2	-0.49%
1	0.15	20.0	-1.48%
1	0.20	19.8	-2.46%
1	0.26	19.4	-4.43%
1	0.31	18.6	-8.37%
1	0.36	18.0	-11.33%
1	0.41	16.6	-18.23%
1	0.46	14.2	-30.05%
1	0.51	10.0	-50.74%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	20.3	0.00%	22.2	0.0
30	0.05	20.1	-0.99%	22.3	0.1
30	0.10	19.9	-1.97%	22.6	0.4
30	0.15	19.7	-2.96%	23.0	0.8
30	0.20	19.7	-2.96%	23.8	1.6
30	0.26	19.3	-4.93%	24.3	2.1
30	0.31	18.8	-7.39%	25.3	3.1
30	0.36	17.9	-11.82%	26.3	4.1
30	0.41	16.4	-19.21%	27.5	5.3
30	0.46	13.6	-33.00%	29.0	6.8
30	0.51	9.10	-55.17%	31.1	8.9



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SPECIFICATION FOR APPROVAL

RoHS Compliance

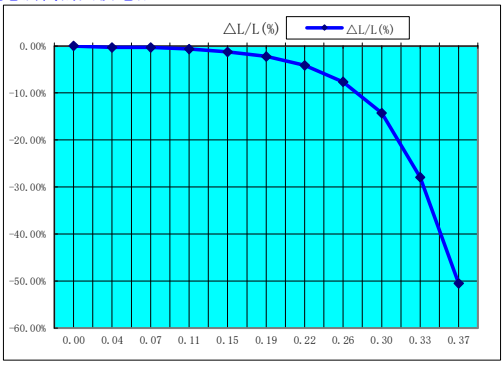
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR3012BLD-330MC	TEST R.H.	80~85%
PART NO.	CKNR3012BLD Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/4/3

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%	1236 Max.	0.31 Max.	△L/L≦-30%	0.33 ΔT≦40℃ ℃				上限 下限	3.2 2.8	3.2 2.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	30.7	854	25.0	-18.57%	OK					3.00	3.04	1.09
2	30.9	849	25.3	-18.12%	OK					2.98	3.00	1.10
3	30.0	856	24.9	-17.00%	OK					2.99	3.04	1.10
4	30.2	846	25.7	-14.90%	OK					2.99	3.04	1.12
5	30.2	845	25.4	-15.89%	OK					2.99	3.04	1.13
6	30.1	851	26.2	-12.96%	OK					3.01	2.99	1.14
7	30.3	832	25.4	-16.17%	OK					3.02	2.98	1.09
8	30.8	849	26.0	-15.58%	OK					2.99	3.01	1.09
9	30.7	850	25.2	-17.92%	OK					2.98	3.01	1.10
10	30.1	846	25.6	-14.95%	OK					3.03	2.98	1.10
AVG.	**30.400**	**847.8**	**25.47**	**-16.21%**						**2.998**	**3.013**	**1.106**
R	**0.9**	**24**	**1.3**	**5.61%**						**0.05**	**0.06**	**0.05**

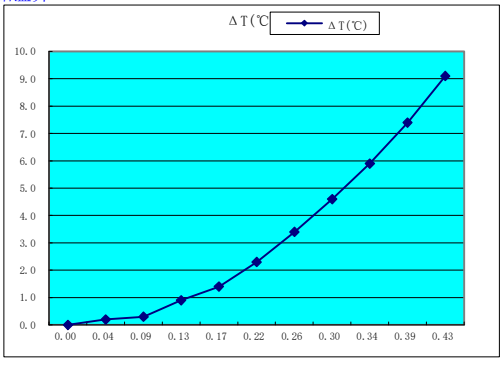
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	31.5	0.00%
1	0.04	31.4	-0.32%
1	0.07	31.4	-0.32%
1	0.11	31.3	-0.63%
1	0.15	31.1	-1.27%
1	0.19	30.8	-2.22%
1	0.22	30.2	-4.13%
1	0.26	29.1	-7.62%
1	0.30	27.0	-14.29%
1	0.33	22.7	-27.94%
1	0.37	15.6	-50.48%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	30.1	0.00%	24.8	0.0
30	0.04	30.1	0.00%	25.0	0.2
30	0.09	30.0	-0.33%	25.1	0.3
30	0.13	29.8	-1.00%	25.7	0.9
30	0.17	29.4	-2.33%	26.2	1.4
30	0.22	28.8	-4.32%	27.1	2.3
30	0.26	27.6	-8.31%	28.2	3.4
30	0.30	25.4	-15.61%	29.4	4.6
30	0.34	20.8	-30.90%	30.7	5.9
30	0.39	13.6	-54.82%	32.2	7.4
30	0.43	8.54	-71.63%	33.9	9.1



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

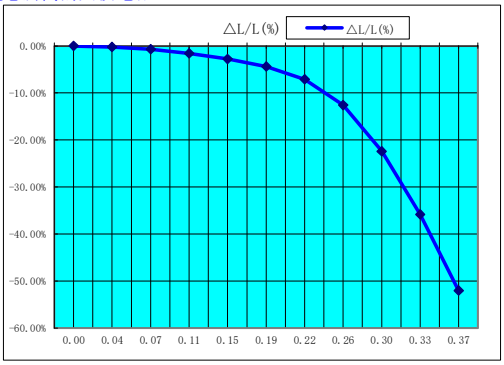
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR3012BLD-470MC	TEST R.H.	80~85%
PART NO.	CKNR3012BLD Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/4/3

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%	1740 Max.	0.25 Max.	△L/L≦-30%	0.28 △T≦40℃ ℃				上限 下限	3.2 2.8	3.2 2.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	44.2	1306	36.2	-18.10%	OK					2.99	3.06	1.07
2	43.7	1327	38.6	-11.67%	OK					2.99	3.07	1.07
3	44.0	1320	38.6	-12.27%	OK					2.99	3.01	1.08
4	43.9	1314	37.7	-14.12%	OK					3.01	3.01	1.09
5	44.0	1343	37.1	-15.68%	OK					3.02	3.00	1.11
6	44.2	1336	37.7	-14.71%	OK					3.01	3.00	1.12
7	43.7	1326	38.2	-12.59%	OK					2.98	3.00	1.09
8	44.2	1336	37.0	-16.29%	OK					2.98	2.98	1.13
9	45.5	1330	37.0	-18.68%	OK					2.99	3.01	1.09
10	44.2	1330	37.6	-14.93%	OK					3.02	2.99	1.12
AVG.	**44.160**	**1326.8**	**37.57**	**-14.90%**						**2.998**	**3.013**	**1.097**
R	**1.8**	**37**	**2.4**	**7.01%**						**0.04**	**0.09**	**0.06**

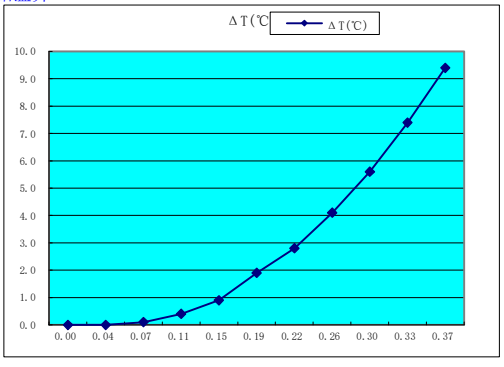
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	43.8	0.00%
1	0.04	43.7	-0.23%
1	0.07	43.5	-0.68%
1	0.11	43.1	-1.60%
1	0.15	42.6	-2.74%
1	0.19	41.9	-4.34%
1	0.22	40.7	-7.08%
1	0.26	38.3	-12.56%
1	0.30	34.0	-22.37%
1	0.33	28.1	-35.84%
1	0.37	21.0	-52.05%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	42.7	0.00%	22.1	0.0
30	0.04	42.7	0.00%	22.1	0.0
30	0.07	42.4	-0.70%	22.2	0.1
30	0.11	41.9	-1.87%	22.5	0.4
30	0.15	41.4	-3.04%	23.0	0.9
30	0.19	40.6	-4.92%	24.0	1.9
30	0.22	39.5	-7.49%	24.9	2.8
30	0.26	37.0	-13.35%	26.2	4.1
30	0.30	32.7	-23.42%	27.7	5.6
30	0.33	26.9	-37.00%	29.5	7.4
30	0.37	20.4	-52.22%	31.5	9.4



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

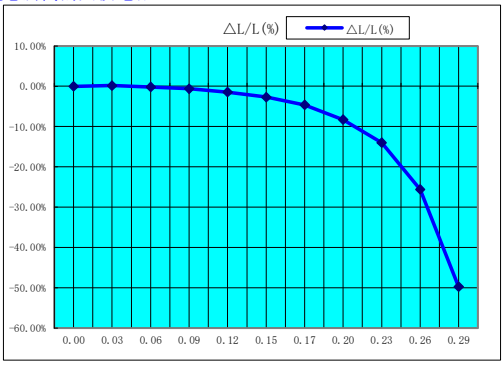
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR3012BLD-680MC	TEST R.H.	80~85%
PART NO.	CKNR3012BLD Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/4/3

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.	68.0 ± 20%	2160 Max.	0.22 Max.	△L/L≦-30%	0.27 ΔT≦40℃ ℃				上限 下限	3.2 2.8	3.2 2.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	62.8	1710	55.3	-11.94%	OK					2.99	3.06	1.07
2	63.9	1710	53.9	-15.65%	OK					2.99	3.07	1.07
3	62.8	1710	54.2	-13.69%	OK					2.99	3.01	1.08
4	63.4	1700	56.2	-11.36%	OK					3.01	3.01	1.09
5	62.8	1720	55.2	-12.10%	OK					3.02	3.00	1.11
6	62.9	1700	55.1	-12.40%	OK					3.01	3.00	1.12
7	63.7	1710	54.4	-14.60%	OK					2.98	3.00	1.09
8	63.3	1690	54.3	-14.22%	OK					2.98	2.98	1.13
9	62.9	1710	54.8	-12.88%	OK					2.99	3.01	1.09
10	62.8	1710	54.4	-13.38%	OK					3.02	2.99	1.12
AVG.	**63.130**	**1707**	**54.78**	**-13.22%**						**2.998**	**3.013**	**1.097**
R	**1.1**	**30**	**2.3**	**4.29%**						**0.04**	**0.09**	**0.06**

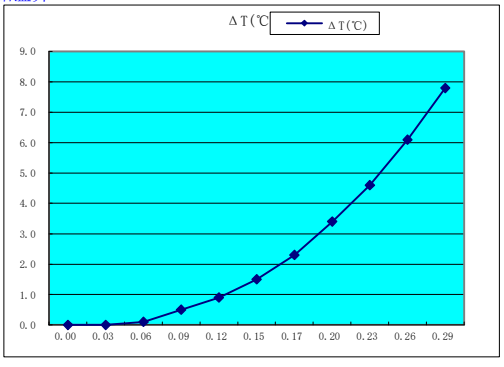
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	62.9	0.00%
1	0.03	63.0	0.16%
1	0.06	62.8	-0.16%
1	0.09	62.5	-0.64%
1	0.12	62.0	-1.43%
1	0.15	61.2	-2.70%
1	0.17	60.0	-4.61%
1	0.20	57.7	-8.27%
1	0.23	54.1	-13.99%
1	0.26	46.8	-25.60%
1	0.29	31.6	-49.76%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	62.1	0.00%	21.2	0.0
30	0.03	62.3	0.32%	21.2	0.0
30	0.06	62.1	0.00%	21.3	0.1
30	0.09	61.6	-0.81%	21.7	0.5
30	0.12	61.1	-1.61%	22.1	0.9
30	0.15	60.2	-3.06%	22.7	1.5
30	0.17	58.8	-5.31%	23.5	2.3
30	0.20	56.3	-9.34%	24.6	3.4
30	0.23	52.0	-16.26%	25.8	4.6
30	0.26	42.7	-31.24%	27.3	6.1
30	0.29	26.7	-57.00%	29.0	7.8



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SPECIFICATION FOR APPROVAL

RoHS Compliance

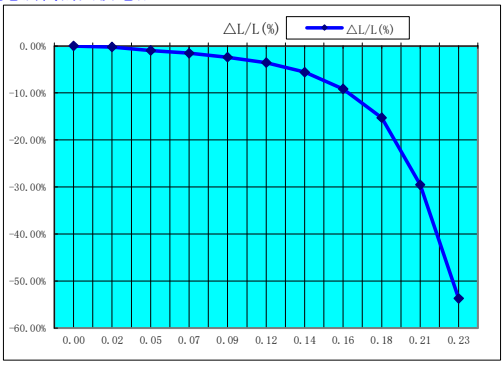
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR3012BLD-820MC	TEST R.H.	80~85%
PART NO.	CKNR3012BLD Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/4/3

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.	82.0 ± 20%	2660 Max.	0.19 Max.	△L/L≦-30%	0.24 ΔT≦40℃ ℃				上限 下限	3.2 2.8	3.2 2.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	82.4	2130	71.4	-13.35%	OK					2.99	3.06	1.07
2	83.9	2150	68.6	-18.24%	OK					2.99	3.07	1.07
3	82.1	2090	69.3	-15.59%	OK					2.99	3.01	1.08
4	82.5	2120	72.4	-12.24%	OK					3.01	3.01	1.09
5	81.4	2120	69.5	-14.62%	OK					3.02	3.00	1.11
6	81.4	2110	70.3	-13.64%	OK					3.01	3.00	1.12
7	83.9	2120	70.6	-15.85%	OK					2.98	3.00	1.09
8	82.5	2110	71.7	-13.09%	OK					2.98	2.98	1.13
9	82.7	2130	72.0	-12.94%	OK					2.99	3.01	1.09
10	82.4	2100	70.2	-14.81%	OK					3.02	2.99	1.12
AVG.	**82.520**	**2118**	**70.6**	**-14.44%**						**2.998**	**3.013**	**1.097**
R	**2.5**	**60**	**3.8**	**5.99%**						**0.04**	**0.09**	**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	84.0	0.00%
1	0.02	83.8	-0.24%
1	0.05	83.2	-0.95%
1	0.07	82.7	-1.55%
1	0.09	82.0	-2.38%
1	0.12	81.0	-3.57%
1	0.14	79.3	-5.60%
1	0.16	76.3	-9.17%
1	0.18	71.2	-15.24%
1	0.21	59.2	-29.52%
1	0.23	38.9	-53.69%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	80.2	0.00%	29.8	0.0
30	0.02	79.6	-0.75%	29.9	0.1
30	0.05	78.8	-1.75%	30.0	0.2
30	0.07	78.0	-2.74%	30.1	0.3
30	0.09	77.6	-3.24%	30.7	0.9
30	0.12	75.6	-5.74%	31.1	1.3
30	0.14	73.4	-8.48%	31.5	1.7
30	0.16	69.9	-12.84%	32.2	2.4
30	0.18	64.1	-20.07%	33.1	3.3
30	0.21	54.8	-31.67%	34.0	4.2
30	0.23	38.0	-52.62%	35.0	5.2

