

承 认 书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	12/Aug/2026	REVISION NO.	A
PART NO.	CKNR5012BH Series		
DRAWN NO.			
DESCRIPTION.	SMD POWER INDUCTOR		
Customer's Signature			
Approved by	Checked by	Drawn by	
梁智坤	黄大燕	赵龙宇	
12/Aug/2026	12/Aug/2026	12/Aug/2026	



广东今凯电子科技有限公司

GUANG DONG CHK ELECTRONIC TECH Co., Ltd

广东省佛山市顺德区北滘万洋科创园二区3栋

Building 3, District 2, Beijiao Wanyang Science and Technology
Innovation Park, Shunde District, Foshan City, Guangdong Province

www.gzchk.com



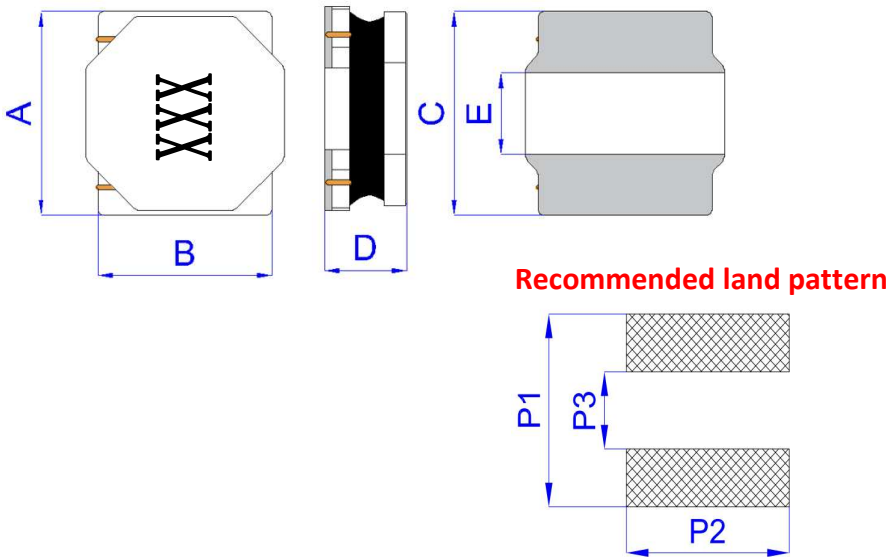
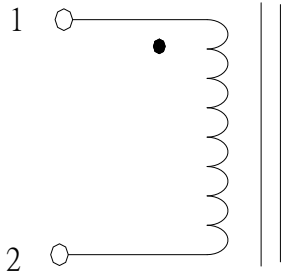
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CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 1/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR5012BH Series	DATE	2026/8/12

1.SHAPE & DIMENSION

UNIT: mm						SCHEMATICS	
							
						MARKING COLOR	
						BLACK	
A	B	C	D	E	P1	P2	P3
5	5	5	1.1	2	5.2	4.7	2.6
±0.2	±0.2	±0.2	±0.1	±0.2	Ref.	Ref.	Ref.
PART NUMBERING SYSTEM							
CK NR 5012 BH - 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	
梁智坤			黄大燕			赵龙宇	



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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.	CKNR5012BH Series	DATE	2026/8/12

2.SERIES SPECIFICATION

◆ CKNR5012BH Series Specification:

Part Number	Inductance	Test Freq	DCR (mΩ)		Saturation Current (A)		Temp. Rise Current (A)	
	(μH)	(Hz)	Max	Typ	Max	Typ	Max	Typ
CKNR5012BH-R33YC	0.33	100KHz/1V	39	30	5.00	5.80	2.80	3.50
CKNR5012BH-R47YC	0.47		52	40	4.80	5.30	2.60	3.00
CKNR5012BH-1R0YC	1.00		68	57	4.40	4.70	2.00	2.40
CKNR5012BH-1R5YC	1.50		86	72	3.70	3.80	1.90	2.20
CKNR5012BH-2R2MC	2.20		108	90	3.10	3.20	1.70	2.00
CKNR5012BH-3R3MC	3.30		151	126	2.40	2.60	1.40	1.70
CKNR5012BH-4R7MC	4.70		197	164	2.20	2.30	1.30	1.50
CKNR5012BH-5R6MC	5.60		299	230	1.90	2.10	1.30	1.30
CKNR5012BH-6R8MC	6.80		294	245	1.70	1.90	1.00	1.20
CKNR5012BH-100MC	10		416	344	1.40	1.50	0.85	1.00
CKNR5012BH-150MC	15		523	436	1.20	1.30	0.80	0.92
CKNR5012BH-220MC	22		858	780	0.88	0.98	0.60	0.68

◆ TEST CONDITION

ITEM	TEST CONDITION	TEST INSTRUMENTS
L	0	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 CKNR5012BH Series size inductors, absolute maximum voltage: DC 50 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'S P/N	0	PAGE	P 3/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR5012BH Series	DATE	2026/8/12

3.MATERIAL LIST & GENERAL SPECIFICATION

材料名称	型号及规格	制造商	环保要求	备注
ITEM	Materials	Manufacturer	EN.QU	Note
磁芯1 (Drum Core)	镍锌 (Nickel-Zinc)	DJ	RoHS	Primary
铜线 (Wire)	Polyester Wire or equivalent	ELEKTRISOLA	RoHS	
胶水 (Glue)	Phenolic epoxy resin	DAJOO	RoHS	
锡 (Solder)	107H	QD	RoHS	Primary
锡 (Solder)	107H	TF	RoHS	Alternative

GENERAL SPECIFICATION

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

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DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR5012BH Series	DATE	2026/8/12

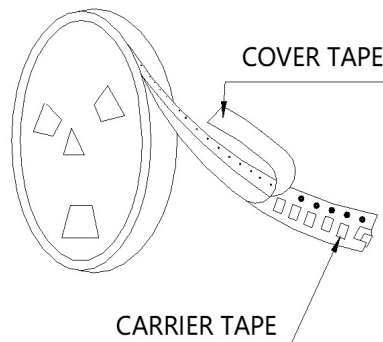
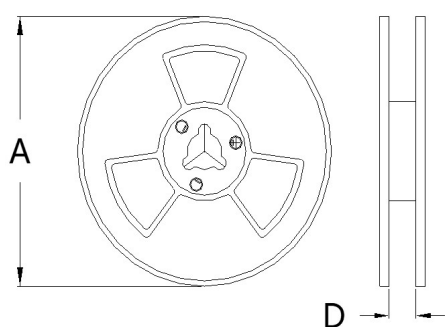
4.PACKAGING(unit: mm)

1.包装类型

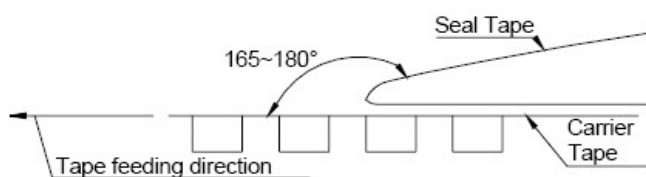
2.包装尺寸

13" 盘

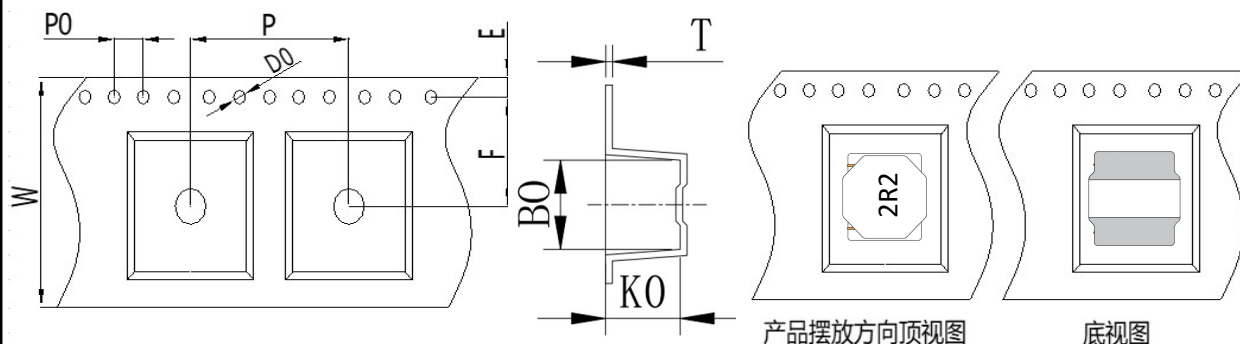
7" 盘



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



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



Item	W	B0	P	T	E	F	D0	P0	K0	
DIM(mm)	12.0±0.3	5.5±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	1.4±0.1	

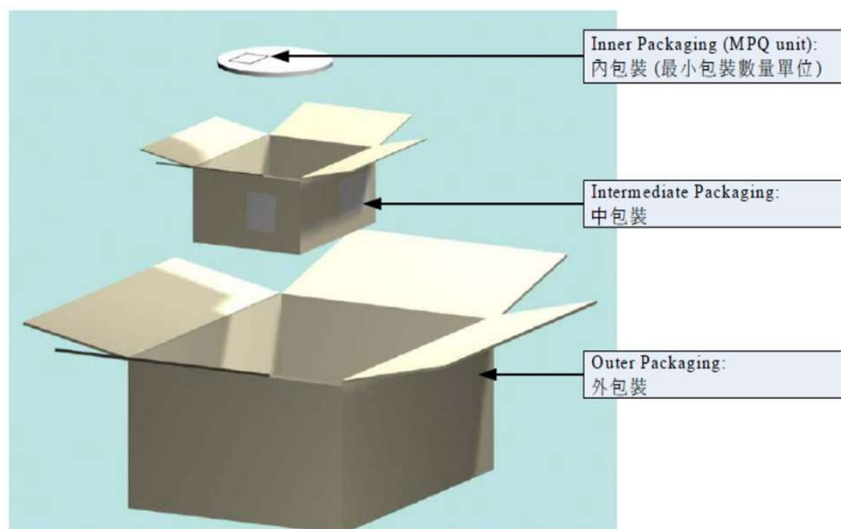
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5. CARTON



1.1 外箱: 36*36*23 cm 一箱裝 2內箱

1.2 內箱: 33.5*33.5*9 cm 一箱裝5卷制品

1.3 外箱材質: A三A

1.4 內箱材質: A=A

1.5 每一卷制品用一只静电袋包裝

1.6 每一静电袋內放一只袋干燥剂

1.7 每一卷上面依标签样式的要求贴上标签明细

1.8 出货內外箱贴上该箱內实际內容明细

1.9 出货标签规格如下: 尺寸=长度:90mm 宽度:50mm

(如: 客戶有特殊要求時, 則依客戶要求實施.)

储存条件及期限:

温度: 20-25℃

湿度: ≤70%

时间: 六个月

卷轴包装数量

每卷	4500	PCS
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內箱包装数量

每箱	5	卷,共	22500	PCS
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外箱包装数量

每箱	10	卷,共	45000	PCS
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CUSTOMER'S P/N	0	PAGE	P 6/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
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6. RELIABILITY TEST

Test Items	Test Conditions	Criteria
1 Low temperature storage	Placed at -40°C for 500 hours, then measured at room ambient temperature after placing 24hours	Inductance shall be within $\pm 10\%$ of the initial value.
2 High temperature storage	Placed at +125°C for 500 hours, then measured at room ambient temperature after placing 24 hours	Inductance shall be within $\pm 10\%$ of the initial value.
3 Thermal shock	Condition for 1 cycle: -40°C,30min.~+125°C,30min Number of cycles:5	Inductance shall be within $\pm 10\%$ of the initial value.
4 Humidity resistance	Placed at 90 to 95%RH,+50°C for 500 hours, then measured at room ambient temperature after placing 24 hours.	Inductance shall be within $\pm 10\%$ of the initial value. Insulation resistance > 100M Ω 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 $\pm$ 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 $\pm$ 5°C, 10 $\pm$ 1 sec, 2) 350 $\pm$ 10°C, 3.5 $\pm$ 0.5 sec	Inductance shall be within $\pm 10\%$ of the initial value. Apperance: No damage

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CUSTOMER'S P/N	0	PAGE	P 7/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
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7. SOLDERING CONDITIONS

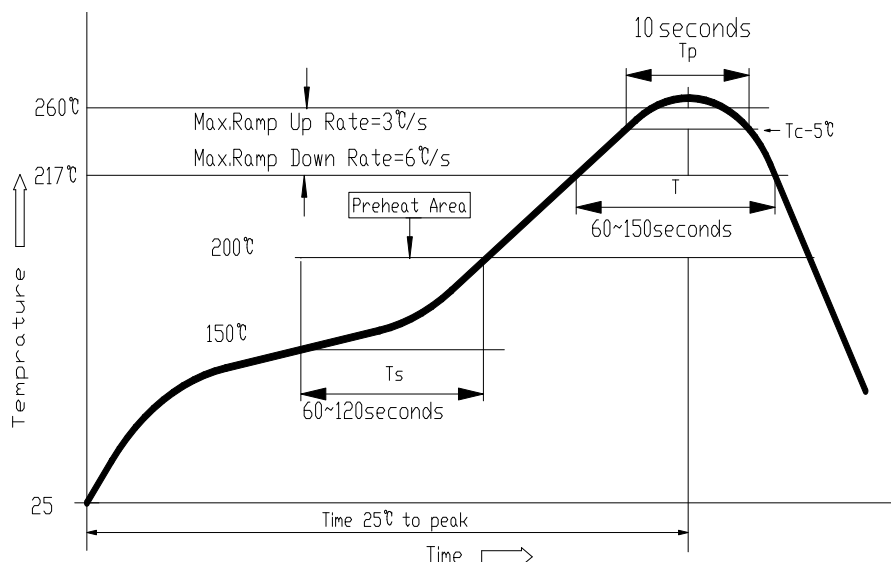
Applicable soldering process to the products is refl.

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

- ①Temperature of soldering iron tip:350℃;
- ② Soldering iron power output:≤30W;
- ③ Diameter of soldering iron end:≤1.0mm;
- ④Soldering time:<3 s



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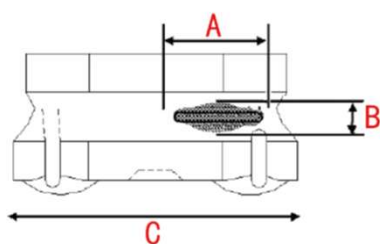


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DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
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8.Appearance of the standard

1.Void appearance tolerance limit



Size of voids occurring to coating resin is specified below.

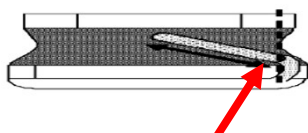
①Width direction(dimension A): Acceptable when $A \leq C/2$

Nonconforming when $B \geq C/2$

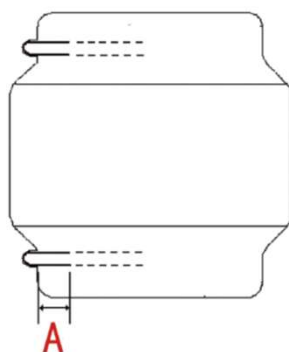
②Length direction(dimension B):Dimension b is not specified

③When total area of voids (including one exposing coil) occurring to each sides is not greater than 50% of coating resin area,that is acceptable.

2.External appearance criterion for exposed wire



Exposed end of the winding wire at the secondary side should be 3.0mm and below.



①Acceptable when $A \leq 0.8\text{mm}$

②Nonconforming when $A > 0.8\text{mm}$

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承认书



SPECIFICATION FOR APPROVAL

CUSTOMER	NA	TEST R.H.	80~85%
CUSTOMER'S P/N	ZAD-5012MEM-R33N-R047	TEST TEMP.	20~25℃
JINKAI P/N:	CKNR5012BH-R33YC	DATE	2017/6/2
PART NO.	CKNR5012 Series		
DRAWN NO.	0		

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.	0.33 ± 30%	30 ± 30%	5.00 Max.	ΔL/L≤-30%	2.80 ΔT≤40℃ ℃				上限 下限	5.2 4.8	5.2 4.8	1.30 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	0.332	28.2	0.293	11.75%	OK				5.02	5.02	1.16	
2	0.339	27.1	0.291	14.16%	OK				5.01	5.02	1.15	
3	0.349	29.1	0.292	16.33%	OK				5.00	5.01	1.17	
4	0.335	25.8	0.295	11.94%	OK				5.05	5.01	1.18	
5	0.339	29.4	0.293	13.57%	OK				5.01	5.05	1.16	
6	0.359	28.8	0.291	18.94%	OK				5.03	5.02	1.15	
7	0.342	25.3	0.295	13.74%	OK				5.02	5.02	1.16	
8	0.350	28.3	0.298	14.86%	OK				5.04	5.01	1.18	
9	0.355	27.3	0.296	16.62%	OK				5.02	5.01	1.19	
10	0.346	28.0	0.294	15.03%	OK				5.03	5.01	1.16	
AVG.	0.345	27.7	0.2938	14.69%					5.023	5.018	1.166	
R	0.027	4.1	0.007	7.19%					0.05	0.04	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	0.353	0.00%
1	0.62	0.354	0.28%
1	1.24	0.354	0.28%
1	1.86	0.352	-0.28%
1	2.48	0.356	0.85%
1	3.10	0.352	-0.28%
1	3.72	0.347	-1.70%
1	4.34	0.338	-4.25%
1	4.96	0.319	-9.63%
1	5.58	0.282	-20.11%
1	6.20	0.180	-49.01%

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TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	0.353	0.00%	24.4	0.0
30	0.35	0.352	-0.28%	24.7	0.3
30	0.70	0.350	-0.85%	25.6	1.2
30	1.05	0.350	-0.85%	26.2	1.8
30	1.40	0.349	-1.13%	27.2	2.8
30	1.75	0.348	-1.42%	28.7	4.3
30	2.10	0.358	1.42%	30.5	6.1
30	2.45	0.357	1.13%	32.5	8.1
30	2.80	0.350	-0.85%	34.5	10.1
30	3.15	0.355	0.57%	38.1	13.7
30	3.50	0.354	0.28%	42.1	17.7

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SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR5012BH-R47YC

PART NO. CKNR5012 Series

DRAWN NO. 0

TEST R.H. 80~85%

TEST TEMP. 20~25℃

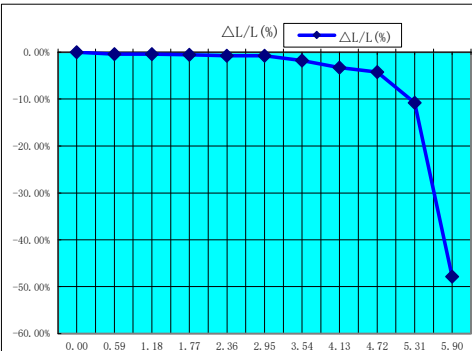
DATE 2017/6/2

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%	40 ± 30%	4.80 Max.	△L/L≤-30%	2.60 △T≤40℃ ℃			上限 下限	5.2 4.8	5.2 4.8	1.30 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	0.533	39.4	0.493	7.50%	OK				5.02	5.01	1.16
2	0.533	39.7	0.492	7.69%	OK				5.03	5.03	1.15
3	0.536	38.2	0.491	8.40%	OK				5.04	5.03	1.18
4	0.522	38.8	0.475	9.00%	OK				5.06	5.02	1.17
5	0.529	39.6	0.478	9.64%	OK				5.03	5.01	1.16
6	0.534	39.2	0.466	12.73%	OK				5.02	5.02	1.15
7	0.521	39.1	0.470	9.79%	OK				5.02	5.03	1.16
8	0.519	38.9	0.469	9.63%	OK				5.03	5.00	1.18
9	0.525	39.4	0.465	11.43%	OK				5.04	5.01	1.19
10	0.530	39.1	0.471	11.13%	OK				5.05	5.03	1.18
AVG.	0.528	39.1	0.477	9.70%					5.034	5.019	1.168
R	0.017	1.5	0.028	5.23%					0.04	0.03	0.04

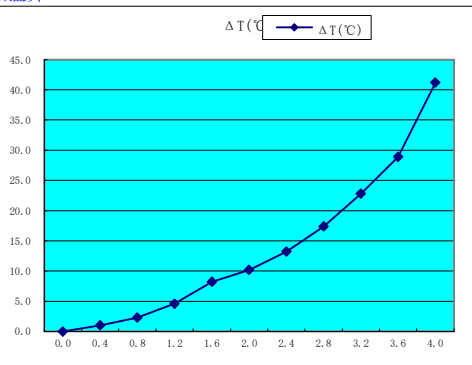
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	0.518	0.00%
1	0.59	0.516	-0.39%
1	1.18	0.516	-0.39%
1	1.77	0.515	-0.58%
1	2.36	0.514	-0.77%
1	2.95	0.514	-0.77%
1	3.54	0.509	-1.74%
1	4.13	0.501	-3.28%
1	4.72	0.496	-4.25%
1	5.31	0.462	-10.81%
1	5.90	0.270	-47.88%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.0	0.562	0.00%	28.6	0.0
30	0.4	0.559	-0.53%	29.6	1.0
30	0.8	0.559	-0.53%	30.9	2.3
30	1.2	0.560	-0.36%	33.2	4.6
30	1.6	0.560	-0.36%	36.8	8.2
30	2.0	0.546	-2.85%	38.8	10.2
30	2.4	0.546	-2.85%	41.8	13.2
30	2.8	0.544	-3.20%	46.0	17.4
30	3.2	0.543	-3.38%	51.4	22.8
30	3.6	0.541	-3.74%	57.5	28.9
30	4.0	0.533	-5.16%	69.8	41.2



承認書



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR5012BH-1R0YC

PART NO. CKNR5012 Series

DRAWN NO. 0

TEST R.H. 80~85%

TEST TEMP. 20~25℃

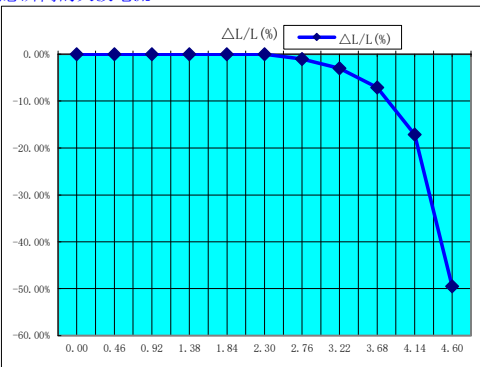
DATE 2017/6/2

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.	1.0 ± 30%	57 ± 30%	4.40 Max.	△L/L≤-30%	2.40 △T≤40℃ ℃			上限 下限	5.2 4.8	5.2 4.8	1.20 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	0.98	59.8	0.80	18.37%	OK				5.05	5.01	1.15
2	0.96	58.3	0.78	18.75%	OK				5.06	5.01	1.16
3	0.95	57.5	0.77	18.95%	OK				5.04	5.02	1.15
4	0.97	58.6	0.78	19.59%	OK				5.03	5.03	1.14
5	0.95	58.9	0.77	18.95%	OK				5.02	5.03	1.16
6	0.94	57.8	0.78	17.02%	OK				5.05	5.02	1.15
7	0.96	58.5	0.77	19.79%	OK				5.06	5.01	1.14
8	0.97	58.7	0.78	19.59%	OK				5.05	5.02	1.17
9	0.97	61.2	0.80	17.53%	OK				5.04	5.02	1.18
10	0.98	57.3	0.81	17.35%	OK				5.03	5.00	1.16
AVG.	0.963	58.7	0.784	18.59%					5.043	5.017	1.156
R	0.04	3.9	0.04	2.77%					0.04	0.03	0.04

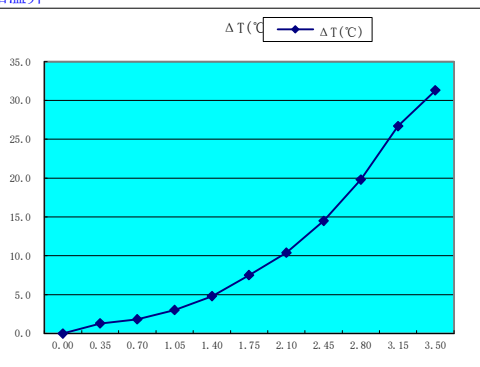
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	0.99	0.00%
1	0.46	0.99	0.00%
1	0.92	0.99	0.00%
1	1.38	0.99	0.00%
1	1.84	0.99	0.00%
1	2.30	0.99	0.00%
1	2.76	0.98	-1.01%
1	3.22	0.96	-3.03%
1	3.68	0.92	-7.07%
1	4.14	0.82	-17.17%
1	4.60	0.50	-49.49%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	1.00	0.00%	26.5	0.0
30	0.35	1.00	0.00%	27.8	1.3
30	0.70	1.00	0.00%	28.3	1.8
30	1.05	1.00	0.00%	29.5	3.0
30	1.40	1.00	0.00%	31.3	4.8
30	1.75	0.99	-1.00%	34.0	7.5
30	2.10	0.99	-1.00%	36.9	10.4
30	2.45	0.98	-2.00%	41.0	14.5
30	2.80	0.98	-2.00%	46.3	19.8
30	3.15	0.96	-4.00%	53.2	26.7
30	3.50	0.92	-8.00%	57.8	31.3



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR5012BH-1R5YC

PART NO. CKNR5012 Series

DRAWN NO. 0

TEST R.H. 80~85%

TEST TEMP. 20~25℃

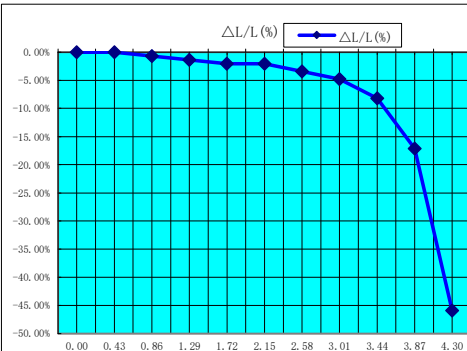
DATE 2017/6/2

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 ± 30%	3.70 Max.	△L/L≤-30%	2.25 △T≤40℃ ℃			上限 下限	5.2 4.8	5.2 4.8	1.20 MAX
TEST FREQ.	100KHZ/1V		100KHZ/1V								
1	1.48	73.3	1.24	16.22%	OK				5.05	5.02	1.16
2	1.46	75.8	1.25	14.38%	OK				5.06	5.03	1.18
3	1.45	73.5	1.26	13.10%	OK				5.05	5.02	1.17
4	1.48	73.4	1.23	16.89%	OK				5.03	5.01	1.16
5	1.48	75.8	1.24	16.22%	OK				5.04	5.03	1.18
6	1.49	75.3	1.25	16.11%	OK				5.05	5.01	1.17
7	1.48	75.5	1.23	16.89%	OK				5.03	5.00	1.16
8	1.50	76.3	1.22	18.67%	OK				5.04	5.01	1.18
9	1.49	74.6	1.23	17.45%	OK				5.05	5.00	1.17
10	1.46	76.0	1.24	15.07%	OK				5.06	5.01	1.16
AVG.	1.477	74.95	1.239	16.10%					5.046	5.014	1.169
R	0.05	3	0.04	5.56%					0.03	0.03	0.02

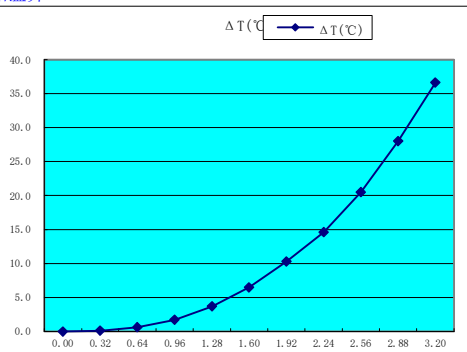
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	1.46	0.00%
1	0.43	1.46	0.00%
1	0.86	1.45	-0.68%
1	1.29	1.44	-1.37%
1	1.72	1.43	-2.05%
1	2.15	1.43	-2.05%
1	2.58	1.41	-3.42%
1	3.01	1.39	-4.79%
1	3.44	1.34	-8.22%
1	3.87	1.21	-17.12%
1	4.30	0.79	-45.89%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	1.49	0.00%	29.0	0.0
30	0.32	1.48	-0.67%	29.1	0.1
30	0.64	1.46	-2.01%	29.6	0.6
30	0.96	1.46	-2.01%	30.7	1.7
30	1.28	1.45	-2.68%	32.7	3.7
30	1.60	1.44	-3.36%	35.5	6.5
30	1.92	1.43	-4.03%	39.3	10.3
30	2.24	1.45	-2.68%	43.6	14.6
30	2.56	1.43	-4.03%	49.5	20.5
30	2.88	1.40	-6.04%	57.0	28.0
30	3.20	1.35	-9.40%	65.6	36.6



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR5012BH-2R2YC

PART NO. CKNR5012 Series

DRAWN NO. 0

TEST R.H. 80~85%

TEST TEMP. 20~25℃

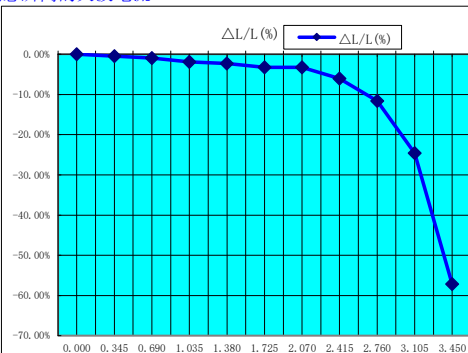
DATE 2017/6/2

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 ± 30%	90 ± 30%	3.10 Max.	△L/L≤-30%	2.00 △T≤40℃ ℃			上限 下限	5.2 4.8	5.2 4.8	1.20 MAX
TEST FREQ.	100KHZ/1V		100KHZ/1V								
1	2.15	88.5	1.78	17.21%	OK				5.05	5.03	1.15
2	2.16	88.9	1.79	17.13%	OK				5.06	5.02	1.16
3	2.16	90.0	1.80	16.67%	OK				5.03	5.01	1.14
4	2.17	89.5	1.83	15.67%	OK				5.06	5.02	1.15
5	2.17	89.5	1.82	16.13%	OK				5.05	5.03	1.16
6	2.15	90.3	1.80	16.28%	OK				5.02	5.02	1.13
7	2.16	89.0	1.70	21.30%	OK				5.04	5.01	1.15
8	2.17	89.6	1.75	19.35%	OK				5.03	5.02	1.14
9	2.16	90.3	1.78	17.59%	OK				5.02	5.01	1.16
10	2.12	89.5	1.77	16.51%	OK				5.02	5.03	1.14
AVG.	2.157	89.5	1.782	17.38%					5.038	5.02	1.148
R	0.05	1.8	0.13	5.63%					0.04	0.02	0.03

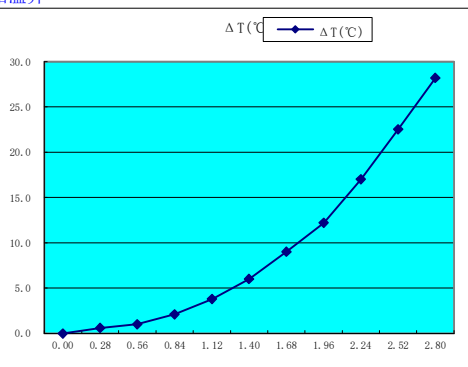
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.000	2.15	0.00%
1	0.345	2.14	-0.47%
1	0.690	2.13	-0.93%
1	1.035	2.11	-1.86%
1	1.380	2.10	-2.33%
1	1.725	2.08	-3.26%
1	2.070	2.08	-3.26%
1	2.415	2.02	-6.05%
1	2.760	1.90	-11.63%
1	3.105	1.62	-24.65%
1	3.450	0.92	-57.21%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	2.13	0.00%	28.0	0.0
30	0.28	2.12	-0.47%	28.6	0.6
30	0.56	2.11	-0.94%	29.0	1.0
30	0.84	2.10	-1.41%	30.1	2.1
30	1.12	2.10	-1.41%	31.8	3.8
30	1.40	2.09	-1.88%	34.0	6.0
30	1.68	2.07	-2.82%	37.0	9.0
30	1.96	2.05	-3.76%	40.2	12.2
30	2.24	2.04	-4.23%	45.0	17.0
30	2.52	1.96	-7.98%	50.5	22.5
30	2.80	1.76	-17.37%	56.2	28.2



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR5012BH-3R3YC

PART NO. CKNR5012 Series

DRAWN NO. 0

TEST R.H. 80~85%

TEST TEMP. 20~25°C

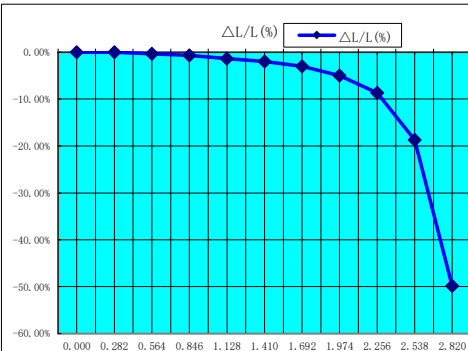
DATE 2017/6/2

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION							DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A			長 mm	寬 mm	高 mm
SPEC.	3.3 ± 30%	126 ± 30%	2.45 Max.	ΔL/L≤-30%	1.70 ΔT≤40°C °C			上限 5.2 下限 4.8	5.2 4.8	1.20 MAX
TEST FREQ.	100KHZ/1V		100KHZ/1V							
1	2.93	122	2.62	10.58%	OK			5.03	5.02	1.13
2	2.97	122	2.60	12.46%	OK			5.04	5.01	1.12
3	2.93	119	2.59	11.60%	OK			5.06	5.03	1.15
4	2.96	121	2.58	12.84%	OK			5.05	5.04	1.16
5	2.90	123	2.62	9.66%	OK			5.06	5.02	1.15
6	3.01	120	2.61	13.29%	OK			5.05	5.03	1.14
7	2.98	121	2.62	12.08%	OK			5.03	5.02	1.15
8	2.97	122	2.57	13.47%	OK			5.04	5.01	1.13
9	3.00	121	2.60	13.33%	OK			5.02	5.00	1.16
10	2.96	123	2.53	14.53%	OK			5.03	5.01	1.15
AVG.	2.961	121.4	2.594	12.38%				5.041	5.019	1.144
R	0.11	4	0.09	4.87%				0.04	0.04	0.04

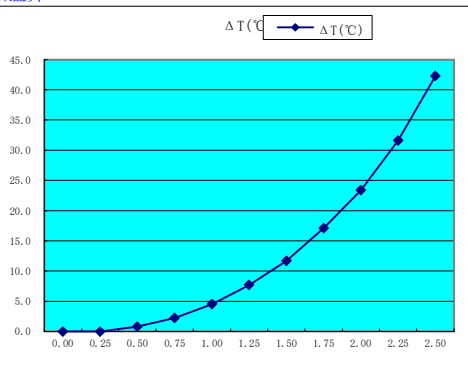
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.000	2.99	0.00%
1	0.282	2.99	0.00%
1	0.564	2.98	-0.33%
1	0.846	2.97	-0.67%
1	1.128	2.95	-1.34%
1	1.410	2.93	-2.01%
1	1.692	2.90	-3.01%
1	1.974	2.84	-5.02%
1	2.256	2.73	-8.70%
1	2.538	2.43	-18.73%
1	2.820	1.50	-49.83%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(°C)	ΔT(°C)
30	0.00	2.98	0.00%	28.0	0.0
30	0.25	2.99	0.34%	28.0	0.0
30	0.50	2.99	0.34%	28.8	0.8
30	0.75	2.98	0.00%	30.2	2.2
30	1.00	2.97	-0.34%	32.5	4.5
30	1.25	2.96	-0.67%	35.7	7.7
30	1.50	2.94	-1.34%	39.7	11.7
30	1.75	2.90	-2.68%	45.1	17.1
30	2.00	2.82	-5.37%	51.4	23.4
30	2.25	2.60	-12.75%	59.6	31.6
30	2.50	1.89	-36.58%	70.3	42.3



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR5012BH-4R7YC

PART NO. CKNR5012 Series

DRAWN NO. 0

TEST R.H. 80~85%

TEST TEMP. 20~25℃

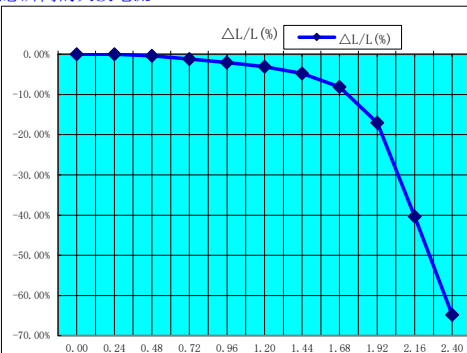
DATE 2017/6/2

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 ± 30%	164 ± 30%	2.20 Max.	△L/L≤-30%	1.50 △T≤40℃ ℃			上限 下限	5.2 4.8	5.2 4.8	1.20 MAX
TEST FREQ.	100KHZ/1V		100KHZ/1V								
1	4.75	160	3.90	17.89%	OK				5.05	5.02	1.16
2	4.72	159	3.88	17.80%	OK				5.03	5.03	1.15
3	4.68	161	3.91	16.45%	OK				5.06	5.01	1.13
4	4.75	162	3.88	18.32%	OK				5.04	5.01	1.15
5	4.69	159	3.84	18.12%	OK				5.03	5.02	1.14
6	4.77	162	3.82	19.92%	OK				5.02	5.01	1.15
7	4.74	163	3.88	18.14%	OK				5.04	5.02	1.16
8	4.76	159	3.81	19.96%	OK				5.05	5.01	1.13
9	4.75	158	3.81	19.79%	OK				5.06	5.02	1.15
10	4.82	162	3.75	22.20%	OK				5.04	5.03	1.16
AVG.	4.743	160.5	3.848	18.86%					5.042	5.018	1.148
R	0.14	5	0.16	5.75%					0.04	0.02	0.03

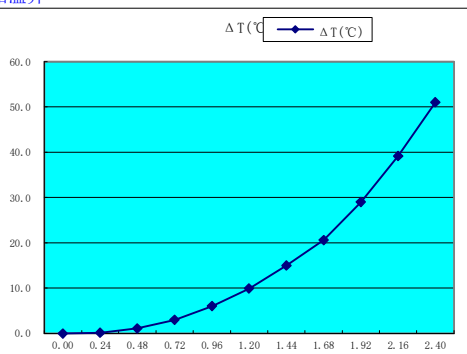
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	4.81	0.00%
1	0.24	4.81	0.00%
1	0.48	4.79	-0.42%
1	0.72	4.75	-1.25%
1	0.96	4.71	-2.08%
1	1.20	4.66	-3.12%
1	1.44	4.58	-4.78%
1	1.68	4.42	-8.11%
1	1.92	3.99	-17.05%
1	2.16	2.87	-40.33%
1	2.40	1.69	-64.86%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	4.71	0.00%	29.0	0.0
30	0.24	4.68	-0.64%	29.1	0.1
30	0.48	4.65	-1.27%	30.1	1.1
30	0.72	4.62	-1.91%	32.0	3.0
30	0.96	4.59	-2.55%	35.0	6.0
30	1.20	4.55	-3.40%	38.9	9.9
30	1.44	4.47	-5.10%	44.0	15.0
30	1.68	4.32	-8.28%	49.6	20.6
30	1.92	3.95	-16.14%	58.0	29.0
30	2.16	2.69	-42.89%	68.1	39.1
30	2.40	1.45	-69.21%	80.0	51.0



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR5012BH-5R6YC

PART NO. CKNR5012 Series

DRAWN NO. 0

TEST R.H. 80~85%

TEST TEMP. 20~25℃

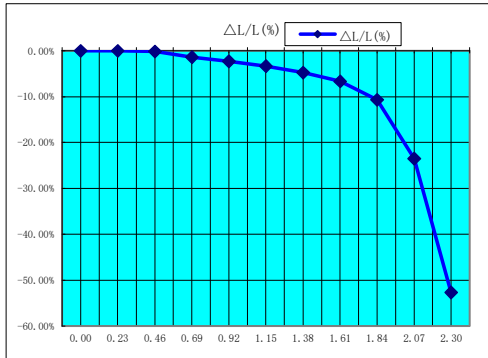
DATE 2017/6/2

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.	5.6 ± 30%	230 ± 30%	1.90 Max.	△L/L≤-30%	1.30 △T≤40℃ ℃			上限 下限	5.2 4.8	5.2 4.8	1.20 MAX
TEST FREQ.	100KHZ/1V		100KHZ/1V								
1	5.76	214	4.98	13.54%	OK				5.03	5.02	1.16
2	5.79	216	5.06	12.61%	OK				5.05	5.03	1.15
3	5.60	218	5.02	10.36%	OK				5.04	5.03	1.14
4	5.65	219	5.01	11.33%	OK				5.06	5.07	1.15
5	5.53	220	4.90	11.39%	OK				5.05	5.04	1.14
6	5.68	216	5.06	10.92%	OK				5.03	5.03	1.13
7	5.60	218	5.05	9.82%	OK				5.04	5.02	1.14
8	5.59	217	5.03	10.02%	OK				5.03	5.01	1.16
9	5.57	219	5.02	9.87%	OK				5.04	5.00	1.16
10	5.61	220	5.01	10.70%	OK				5.05	5.01	1.17
AVG.	5.638	217.7	5.014	11.06%					5.042	5.026	1.15
R	0.26	6	0.16	3.72%					0.03	0.07	0.04

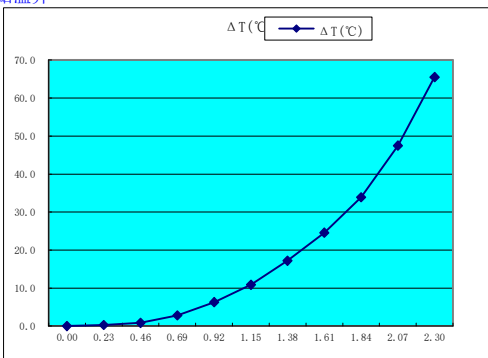
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Isat(A)	L(UH)	ΔL/L(%)
1	0.00	5.70	0.00%
1	0.23	5.70	0.00%
1	0.46	5.69	-0.18%
1	0.69	5.62	-1.40%
1	0.92	5.57	-2.28%
1	1.15	5.51	-3.33%
1	1.38	5.43	-4.74%
1	1.61	5.32	-6.67%
1	1.84	5.09	-10.70%
1	2.07	4.36	-23.51%
1	2.30	2.70	-52.63%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	5.70	0.00%	29.5	0.0
30	0.23	5.70	0.00%	29.8	0.3
30	0.46	5.69	-0.18%	30.4	0.9
30	0.69	5.66	-0.70%	32.3	2.8
30	0.92	5.62	-1.40%	35.8	6.3
30	1.15	5.58	-2.11%	40.4	10.9
30	1.38	5.51	-3.33%	46.7	17.2
30	1.61	5.28	-7.37%	54.1	24.6
30	1.84	5.06	-11.23%	63.4	33.9
30	2.07	3.98	-30.18%	77.0	47.5
30	2.30	2.13	-62.63%	95.0	65.5



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR5012BH-6R8MC

PART NO. CKNR5012 Series

DRAWN NO. 0

TEST R.H. 80~85%

TEST TEMP. 20~25℃

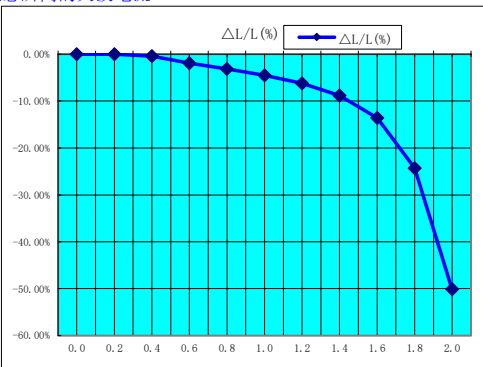
DATE 2017/6/2

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%	245 ± 30%	1.75 Max.	△L/L≤-30%	1.25 △T≤40℃ ℃			上限 下限	5.2 4.8	5.2 4.8	1.20 MAX
TEST FREQ.	100KHZ/1V		100KHZ/1V								
1	6.83	246	5.49	19.62%	OK				5.05	5.01	1.16
2	6.96	246	5.51	20.83%	OK				5.06	5.05	1.18
3	6.88	248	5.53	19.62%	OK				5.05	5.02	1.16
4	6.92	247	5.62	18.79%	OK				5.04	5.02	1.16
5	6.84	247	5.50	19.59%	OK				5.03	5.03	1.15
6	6.90	249	5.58	19.13%	OK				5.05	5.03	1.15
7	7.07	251	5.78	18.25%	OK				5.04	5.04	1.16
8	6.90	249	5.68	17.68%	OK				5.06	5.02	1.14
9	6.86	252	5.53	19.39%	OK				5.05	5.01	1.16
10	7.00	253	5.61	19.86%	OK				5.05	5.00	1.15
AVG.	6.916	248.8	5.583	19.28%					5.048	5.023	1.1566
R	0.24	7	0.29	3.15%					0.03	0.05	0.04

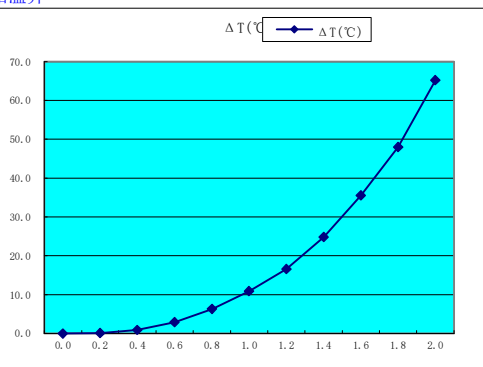
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.0	6.92	0.00%
1	0.2	6.92	0.00%
1	0.4	6.89	-0.43%
1	0.6	6.79	-1.88%
1	0.8	6.70	-3.18%
1	1.0	6.61	-4.48%
1	1.2	6.49	-6.21%
1	1.4	6.31	-8.82%
1	1.6	5.98	-13.58%
1	1.8	5.24	-24.28%
1	2.0	3.45	-50.14%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.0	6.82	0.00%	30.2	0.0
30	0.2	6.81	-0.15%	30.3	0.1
30	0.4	6.76	-0.88%	31.1	0.9
30	0.6	6.70	-1.76%	33.1	2.9
30	0.8	6.65	-2.49%	36.5	6.3
30	1.0	6.58	-3.52%	41.1	10.9
30	1.2	6.46	-5.28%	46.8	16.6
30	1.4	6.22	-8.80%	55.0	24.8
30	1.6	5.60	-17.89%	65.7	35.5
30	1.8	4.10	-39.88%	78.2	48.0
30	2.0	2.29	-66.42%	95.4	65.2



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR5012BH-100MC

PART NO. CKNR5012 Series

DRAWN NO. 0

TEST R.H. 80~85%

TEST TEMP. 20~25℃

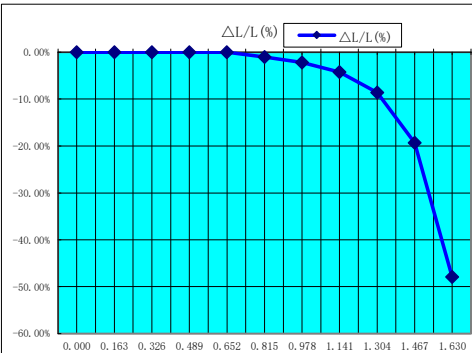
DATE 2017/6/2

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION							DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A			長 mm	寬 mm	高 mm
SPEC.	10.0 ± 20%	344 ± 30%	1.40 Max.	ΔL/L≤-30%	1.05 ΔT≤40℃ ℃			上限 下限	5.2 4.8	5.2 4.8 MAX
TEST FREQ.	100KHZ/1V		100KHZ/1V							
1	10.0	328	8.36	16.40%	OK			5.05	5.02	1.16
2	10.0	330	8.43	15.70%	OK			5.06	5.03	1.15
3	10.1	332	8.26	18.22%	OK			5.03	5.02	1.14
4	10.0	329	8.34	16.60%	OK			5.04	5.01	1.16
5	10.3	330	8.39	18.54%	OK			5.05	5.00	1.15
6	10.2	328	8.46	17.06%	OK			5.04	5.02	1.16
7	9.97	332	8.41	15.65%	OK			5.05	5.02	1.18
8	10.1	329	8.26	18.22%	OK			5.06	5.03	1.15
9	9.98	335	8.34	16.43%	OK			5.03	5.03	1.13
10	10.1	336	8.29	17.92%	OK			5.04	5.02	1.14
AVG.	10.075	330.9	8.354	17.07%				5.045	5.02	1.152
R	0.33	8	0.2	2.90%				0.03	0.03	0.05

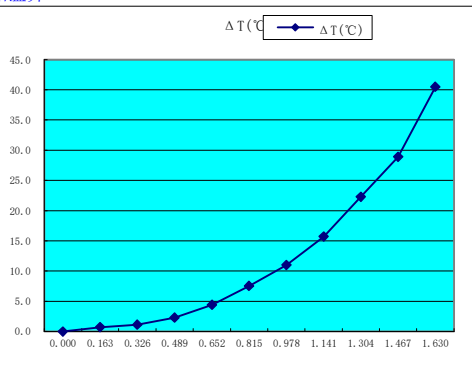
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.000	10.1	0.00%
1	0.163	10.1	0.00%
1	0.326	10.1	0.00%
1	0.489	10.1	0.00%
1	0.652	10.1	0.00%
1	0.815	10.0	-0.99%
1	0.978	9.88	-2.18%
1	1.141	9.67	-4.26%
1	1.304	9.23	-8.61%
1	1.467	8.15	-19.31%
1	1.630	5.26	-47.92%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.000	10.1	0.00%	30.0	0.0
30	0.163	10.0	-0.99%	30.7	0.7
30	0.326	10.1	0.00%	31.1	1.1
30	0.489	10.1	0.00%	32.3	2.3
30	0.652	10.0	-0.99%	34.4	4.4
30	0.815	9.95	-1.49%	37.5	7.5
30	0.978	9.81	-2.87%	41.0	11.0
30	1.141	9.52	-5.74%	45.7	15.7
30	1.304	8.88	-12.08%	52.3	22.3
30	1.467	7.40	-26.73%	58.9	28.9
30	1.630	4.00	-60.40%	70.5	40.5



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR5012BH-150MC

PART NO. CKNR5012 Series

DRAWN NO. 0

TEST R.H. 80~85%

TEST TEMP. 20~25°C

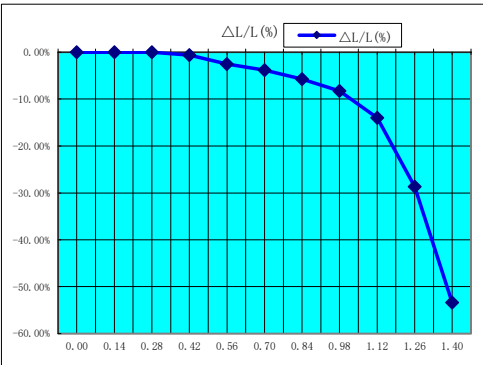
DATE 2017/6/2

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%	436 ± 30%	1.25 Max.	△L/L≤-30%	0.92 △T≤40℃ ℃				上限 下限	5.2 4.8	5.2 4.8 MAX
TEST FREQ.	100KHZ/1V		100KHZ/1V								
1	15.9	456	12.3	22.64%	OK					5.05	5.04 1.16
2	15.1	457	12.5	17.22%	OK					5.06	5.03 1.15
3	15.0	455	12.6	16.00%	OK					5.04	5.02 1.13
4	15.5	453	12.4	20.00%	OK					5.03	5.03 1.14
5	15.7	456	12.5	20.38%	OK					5.03	5.02 1.15
6	15.0	455	12.3	18.00%	OK					5.04	5.01 1.16
7	15.5	460	12.8	17.42%	OK					5.06	5.02 1.15
8	15.4	457	12.7	17.53%	OK					5.05	5.03 1.14
9	15.6	458	12.3	21.15%	OK					5.08	5.02 1.13
10	15.7	459	12.6	19.75%	OK					5.06	5.02 1.15
AVG.	15.440	456.6	12.5	19.01%						5.05	5.024 1.146
R	0.9	7	0.5	6.64%						0.05	0.03 0.03

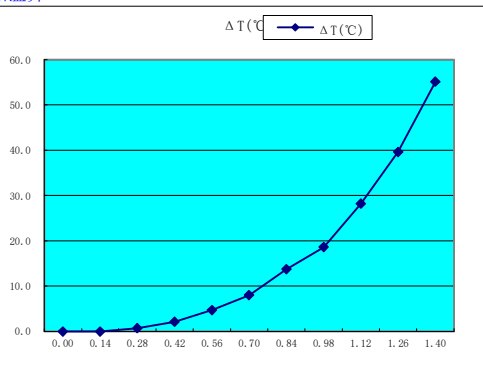
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	15.7	0.00%
1	0.14	15.7	0.00%
1	0.28	15.7	0.00%
1	0.42	15.6	-0.64%
1	0.56	15.3	-2.55%
1	0.70	15.1	-3.82%
1	0.84	14.8	-5.73%
1	0.98	14.4	-8.28%
1	1.12	13.5	-14.01%
1	1.26	11.2	-28.66%
1	1.40	7.32	-53.38%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(°C)	ΔT(°C)
30	0.00	15.2	0.00%	30.1	0.0
30	0.14	15.1	-0.66%	30.1	0.0
30	0.28	15.2	0.00%	30.8	0.7
30	0.42	15.2	0.00%	32.2	2.1
30	0.56	15.0	-1.32%	34.8	4.7
30	0.70	14.9	-1.97%	38.1	8.0
30	0.84	14.4	-5.26%	43.8	13.7
30	0.98	13.8	-9.21%	48.7	18.6
30	1.12	12.5	-17.76%	58.3	28.2
30	1.26	10.4	-31.58%	69.7	39.6
30	1.40	6.52	-57.11%	85.2	55.1



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR5012BH-150MC

PART NO. CKNR5012 Series

DRAWN NO. 0

TEST R.H. 80~85%

TEST TEMP. 20~25°C

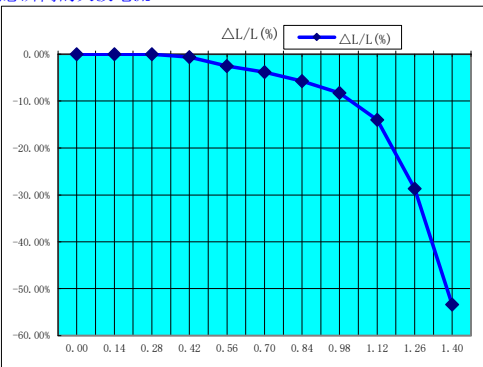
DATE 2017/6/2

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%	436 ± 30%	1.25 Max.	△L/L≤-30%	0.92 △T≤40℃ ℃				上限 下限	5.2 4.8	5.2 4.8 MAX
TEST FREQ.	100KHZ/1V		100KHZ/1V								
1	15.9	456	12.3	22.64%	OK				5.05	5.04	1.16
2	15.1	457	12.5	17.22%	OK				5.06	5.03	1.15
3	15.0	455	12.6	16.00%	OK				5.04	5.02	1.13
4	15.5	453	12.4	20.00%	OK				5.03	5.03	1.14
5	15.7	456	12.5	20.38%	OK				5.03	5.02	1.15
6	15.0	455	12.3	18.00%	OK				5.04	5.01	1.16
7	15.5	460	12.8	17.42%	OK				5.06	5.02	1.15
8	15.4	457	12.7	17.53%	OK				5.05	5.03	1.14
9	15.6	458	12.3	21.15%	OK				5.08	5.02	1.13
10	15.7	459	12.6	19.75%	OK				5.06	5.02	1.15
AVG.	15.440	456.6	12.5	19.01%					5.05	5.024	1.146
R	0.9	7	0.5	6.64%					0.05	0.03	0.03

Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	15.7	0.00%
1	0.14	15.7	0.00%
1	0.28	15.7	0.00%
1	0.42	15.6	-0.64%
1	0.56	15.3	-2.55%
1	0.70	15.1	-3.82%
1	0.84	14.8	-5.73%
1	0.98	14.4	-8.28%
1	1.12	13.5	-14.01%
1	1.26	11.2	-28.66%
1	1.40	7.32	-53.38%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(°C)	ΔT(°C)
30	0.00	15.2	0.00%	30.1	0.0
30	0.14	15.1	-0.66%	30.1	0.0
30	0.28	15.2	0.00%	30.8	0.7
30	0.42	15.2	0.00%	32.2	2.1
30	0.56	15.0	-1.32%	34.8	4.7
30	0.70	14.9	-1.97%	38.1	8.0
30	0.84	14.4	-5.26%	43.8	13.7
30	0.98	13.8	-9.21%	48.7	18.6
30	1.12	12.5	-17.76%	58.3	28.2
30	1.26	10.4	-31.58%	69.7	39.6
30	1.40	6.52	-57.11%	85.2	55.1

