

承 认 书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	18/Mar/2025	REVISION NO.	A
PART NO.	CKNR201610A 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	
18/Mar/2025	18/Mar/2025	18/Mar/2025	



广东今凯电子科技有限公司

GUANG DONG CHK ELECTRONIC TECH Co., Ltd

广东省佛山市顺德区北滘万洋科创园二区3栋

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

www.gzchk.com



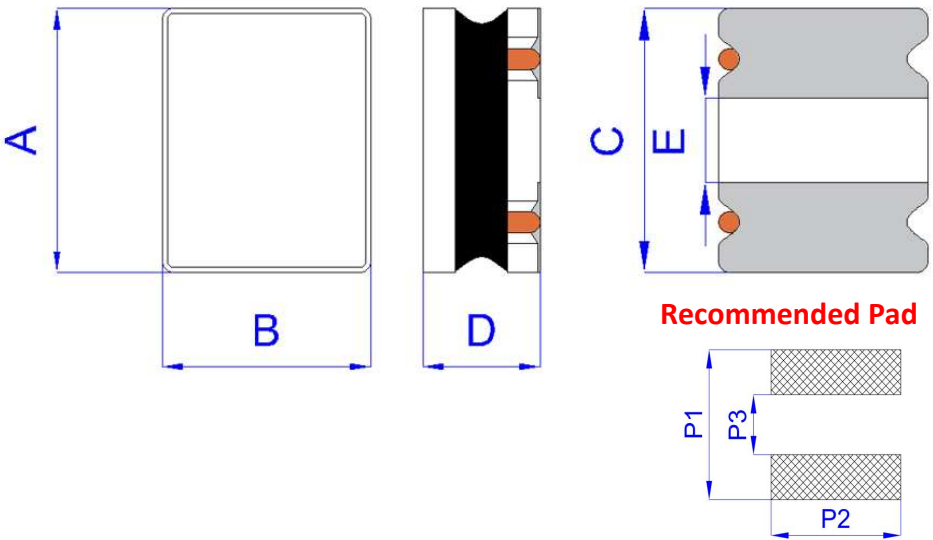
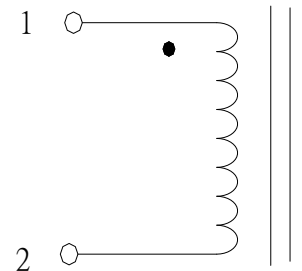
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1.SHAPE & DIMENSION

UNIT: mm						SCHEMATICS	
							
						MARKING COLOR	
						NA	
A	B	C	D	E	P1	P2	P3
2	1.6	2	1.1	0.65	2.4	1.8	0.8
0.3/-0.1	0.3/-0.1	0.3/-0.1	MAX	±0.2	Ref.	Ref.	Ref.

备注：1R0以下感值高度为1.15Max。1R5以上感值高度为1.1Max.

PART NUMBERING SYSTEM

CK	NR	252012	A	-	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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PART NO.	CKNR201610A Series	DATE	2025/3/18

2.SERIES SPECIFICATION

◆ CKNR201610A Series Specification:

Part Number	Inductance	Test Freq	DCR(mΩ)		Saturation Current (A)		Temp. Rise Current (A)	
	(μH)	(Hz)	Max	Typ	Max	Typ	Max	Typ
CKNR201610A-R24YC	0.24	1MHz/1V	42	33	3.60	3.70	3.30	3.50
CKNR201610A-R47YC	0.47		70	49	2.30	2.60	2.20	2.30
CKNR201610A-R68YC	0.68		82	60	1.95	2.40	2.05	2.15
CKNR201610A-1R0YC	1.00		120	94	1.50	1.80	1.50	1.60
CKNR201610A-1R5YC	1.50		174	123	1.35	1.45	1.40	1.50
CKNR201610A-2R2MC	2.20		205	160	1.10	1.25	1.20	1.30
CKNR201610A-3R3MC	3.30		335	235	0.90	1.00	0.88	1.05
CKNR201610A-4R7MC	4.70		479	363	0.77	0.90	0.90	0.95
CKNR201610A-6R8MC	6.80		816	542	0.70	0.75	0.52	0.60
CKNR201610A-100MC	10.0		912	750	0.55	0.56	0.45	0.50

◆ TEST CONDITION

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

*The operating temperature is 25℃

*Isat: For Inductance drop 30% from its value without current

*Irms: The value of D.C current when the temperature rise is $\Delta T \leq 40^{\circ}\text{C}$. (Ta=25℃)

*For CKNR201610A 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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3.MATERIAL LIST & GENERAL SPECIFICATION

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

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

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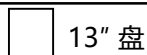
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4.PACKAGING(unit: mm)

1.包装类型

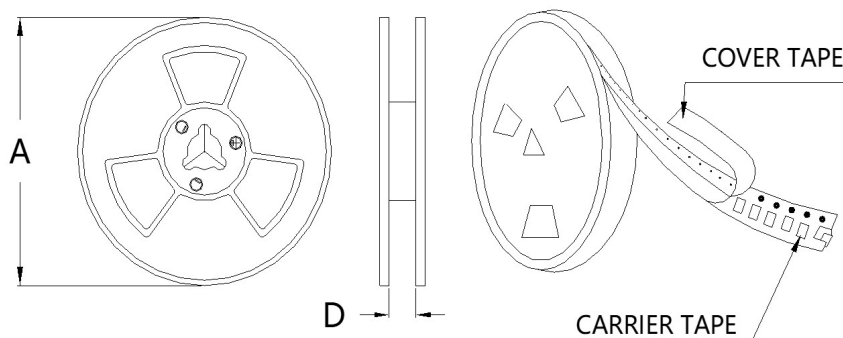
2.包装尺寸



13" 盘



7" 盘

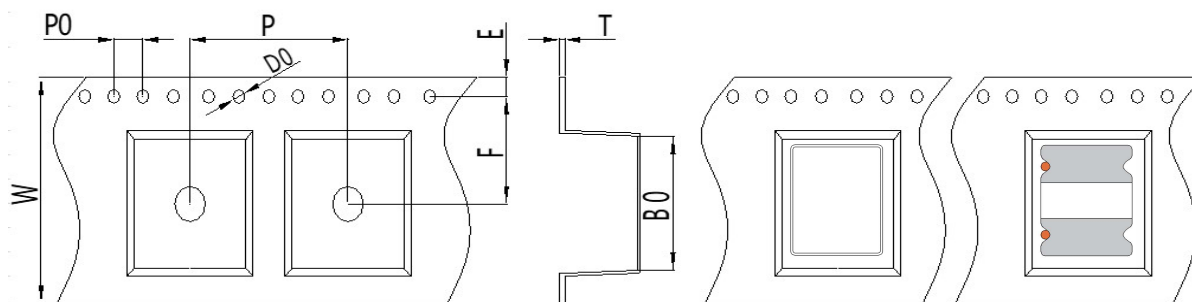


	13" 盘	7" 盘
A	$\Phi 330 \pm 2.0$	$\Phi 178 \pm 2.0$
D	8.4	

Peel-off strength:10~100gf.

Peel-off angle:165°-180°

Peel-off speed:300mm/min.



产品摆放方向顶视图

底视图

Item	W	B0	P	T	E	F	D0	P0		
DIM(mm)	8.0±0.3	2.4±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		

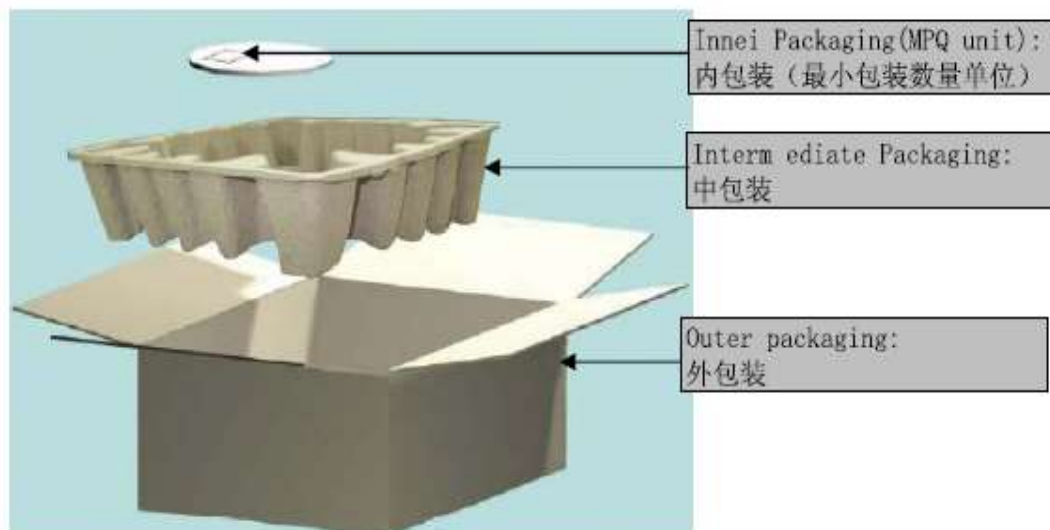
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5. CARTON



- 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 外箱材质: A三A
1.4 内箱材质: A=A
1.5 每10卷制品用一只静电袋包装
1.6 每一静电袋内放一只袋干燥剂
1.7 每一卷上面依标签样式的要求贴上标签明细
1.8 出货内外箱贴上该箱内实际内容明细
1.9 出货标签规格如下: 尺寸=长度:39mm 宽度:29mm
(如: 客户有特殊要求时, 则依客户要求实施.)

储存条件及期限:

温度: 20-25℃

湿度: ≤70%

时间: 六个月

卷轴包装数量

每卷	2000	PCS
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外箱包装数量

每箱	40	卷,共	80000	PCS
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6. RELIABILITY TEST

Test Items		Test Conditions	Criteria
1	Low temperature storage	Placed at -40°C for 500 hours, then measured at room ambient temperature after placing 24hours	Inductance shall be within $\pm 10\%$ of the initial value.
2	High temperature storage	Placed at +125°C for 500 hours, then measured at room ambient temperature after placing 24 hours	Inductance shall be within $\pm 10\%$ of the initial value.
3	Thermal shock	Condition for 1 cycle: -40°C,30min.~+125°C,30min Number of cycles:5	Inductance shall be within $\pm 10\%$ of the initial value.
4	Humidity resistance	Placed at 90 to 95%RH,+50°C for 500 hours, then measured at room ambient temperature after placing 24 hours.	Inductance shall be within $\pm 10\%$ of the initial value. Insulation resistance > 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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7. SOLDERING CONDITIONS

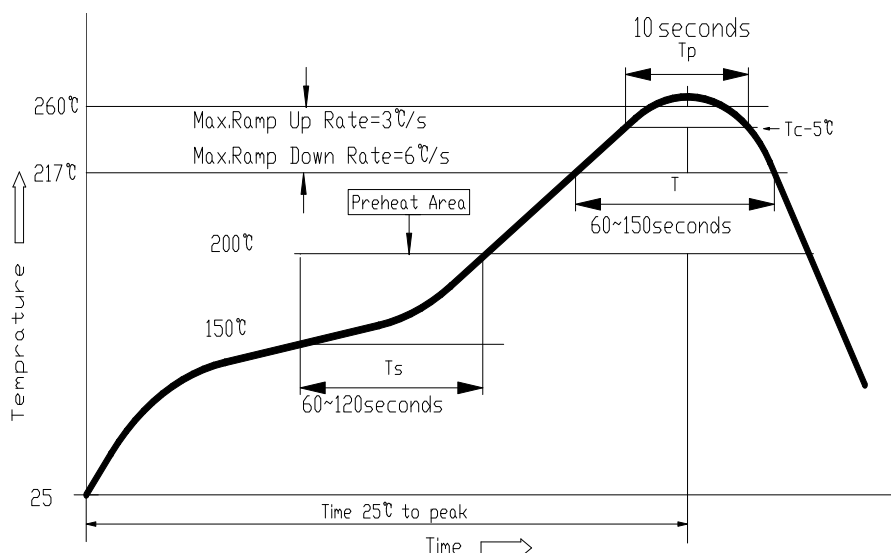
Applicable soldering process to the products is refl.

9.1 Soldering Materials

(1) Solder:Sn-3.0Ag-0.5Cu

(2) Flux:Use rosin-based flux,but not strongly acidic flux (with xhlorine exceeding 0.2wt%).Do not use water-soluble flux.

9.2 Reflow Soldering Profile



9.3 Soldering Iron

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

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



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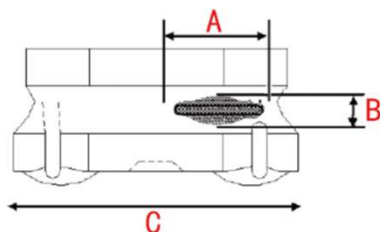
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8.Appearance of the standard

1.Void appearance tolerance limit

Size of voids occurring to coating resin is specified below.



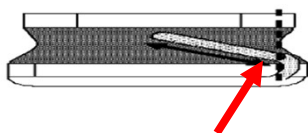
①Width direction(dimension A): Acceptable when $A \leq C/2$

Nonconforming when $B \geq C/2$

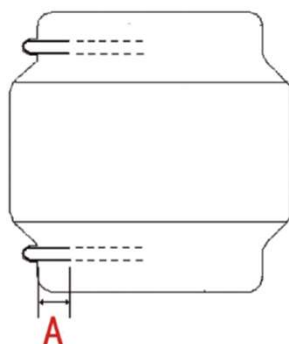
②Length direction(dimension B):Dimension b is not specified

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

2.External appearance criterion for exposed wire



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



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

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

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SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR201610A-R24YC

PART NO. CKNR201610A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25°C

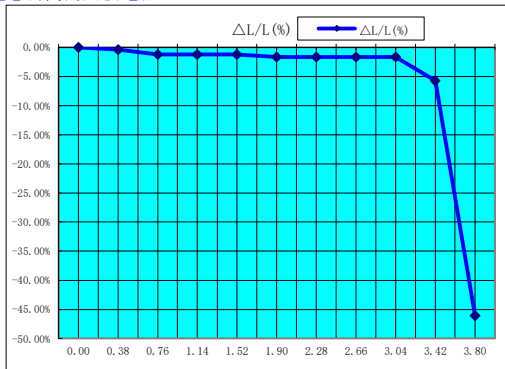
DATE 2025/3/18

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.	0.24 ± 30%	42 Max.	3.60 Max.	△L/L≤-30%	3.30 △T≤40℃ ℃				上限 2.3 下限 1.9	1.9 1.5	1.15 MAX
TEST FREQ.	1MHz/1V		1MHz/1V								
1	0.215	32.0	0.201	-6.51%	OK				2.07	1.73	0.95
2	0.211	33.0	0.199	-5.69%	OK				2.08	1.75	0.97
3	0.211	31.7	0.195	-7.58%	OK				2.07	1.72	0.96
4	0.216	31.2	0.200	-7.41%	OK				2.13	1.74	0.98
5	0.209	31.0	0.198	-5.26%	OK				2.14	1.75	0.97
6	0.215	32.0	0.201	-6.51%	OK				2.07	1.73	0.95
7	0.211	33.0	0.199	-5.69%	OK				2.08	1.75	0.97
8	0.211	30.8	0.195	-7.58%	OK				2.07	1.72	0.96
9	0.216	31.5	0.200	-7.41%	OK				2.13	1.74	0.98
10	0.209	31.9	0.198	-5.26%	OK				2.14	1.75	0.97
AVG.	0.212	31.81	0.1986	-6.49%					2.098	1.738	0.966
R	0.007	2.2	0.006	2.32%					0.07	0.03	0.03

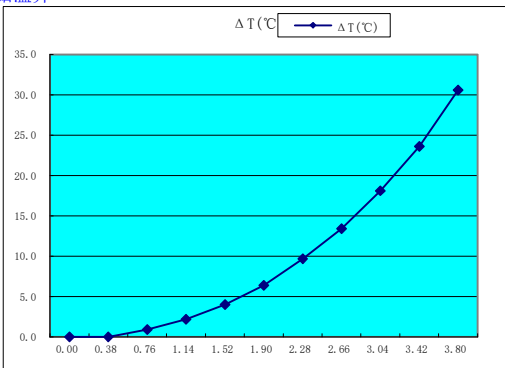
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	0.243	0.00%
1	0.38	0.242	-0.41%
1	0.76	0.240	-1.23%
1	1.14	0.240	-1.23%
1	1.52	0.240	-1.23%
1	1.90	0.239	-1.65%
1	2.28	0.239	-1.65%
1	2.66	0.239	-1.65%
1	3.04	0.239	-1.65%
1	3.42	0.229	-5.76%
1	3.80	0.131	-46.09%



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TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(°C)	ΔT(°C)
30	0.00	0.284	0.00%	28.6	0.0
30	0.38	0.283	-0.35%	28.6	0.0
30	0.76	0.282	-0.70%	29.5	0.9
30	1.14	0.282	-0.70%	30.8	2.2
30	1.52	0.281	-1.06%	32.6	4.0
30	1.90	0.281	-1.06%	35.0	6.4
30	2.28	0.281	-1.06%	38.3	9.7
30	2.66	0.280	-1.41%	42.0	13.4
30	3.04	0.280	-1.41%	46.7	18.1
30	3.42	0.270	-4.93%	52.2	23.6
30	3.80	0.236	-16.90%	59.2	30.6



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CUSTOMER'S P/N

JINKAI P/N: CKNR201610A-R47YC

PART NO. CKNR201610A Series

DRAWN NO.

TEST R.H. 80~85%

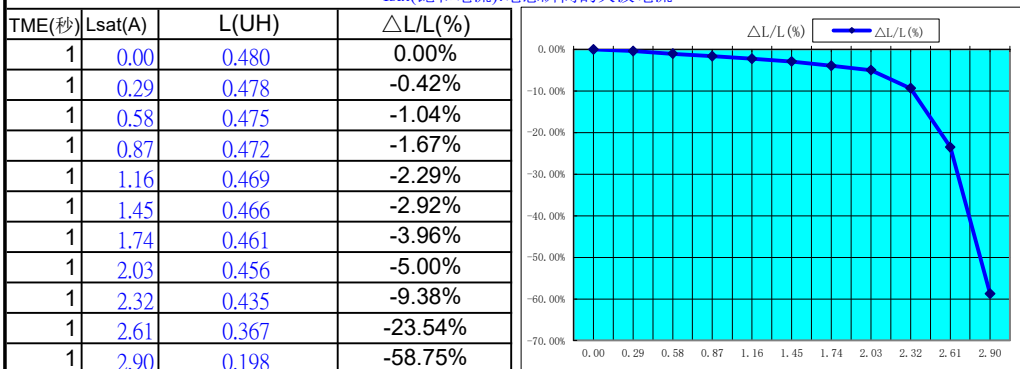
TEST TEMP. 20~25°C

DATE 2025/3/18

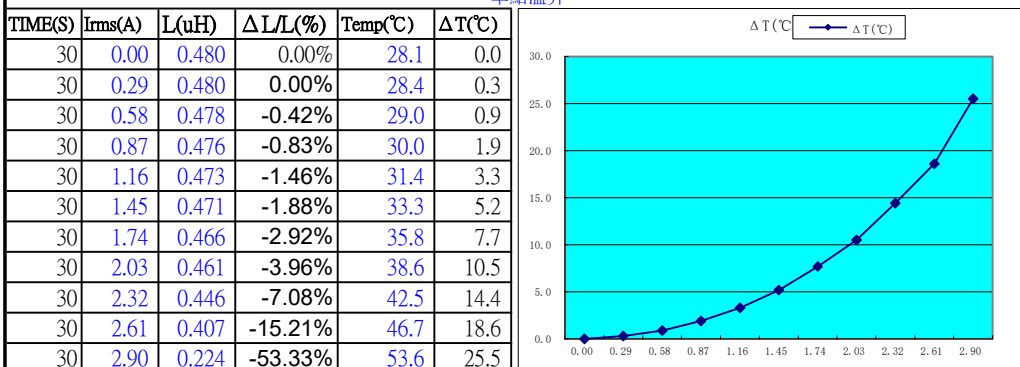
TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION								DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm
SPEC.	0.47 ± 30%	70 Max.	2.30 Max.	ΔL/L≤-30%	2.20 ΔT≤40℃ ℃			上限 下限	2.3 1.9	1.9 1.5	1.15 MAX
TEST FREQ.	1MHz/1V		1MHz/1V								
1	0.504	50.9	0.476	-5.56%	OK				2.15	1.78	1.06
2	0.507	55.4	0.478	-5.72%	OK				2.11	1.76	1.04
3	0.498	50.1	0.478	-4.02%	OK				2.13	1.79	1.03
4	0.499	52.1	0.468	-6.21%	OK				2.20	1.78	1.06
5	0.502	51.3	0.458	-8.76%	OK				2.14	1.80	1.05
6	0.500	52.3	0.465	-7.00%	OK				2.08	1.69	0.96
7	0.501	49.4	0.483	-3.59%	OK				2.07	1.68	0.95
8	0.503	54.5	0.478	-4.97%	OK				2.09	1.67	0.97
9	0.505	52.3	0.481	-4.75%	OK				2.06	1.62	0.98
10	0.511	54.7	0.482	-5.68%	OK				2.13	1.64	0.97
AVG.	0.503	52.3	0.4747	-5.63%					2.116	1.721	1.007
R	0.013	6	0.025	5.17%					0.14	0.18	0.11

Isat(飽和電流):電感瞬間の突波電流



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SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR201610A-R68YC

PART NO. CKNR201610A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

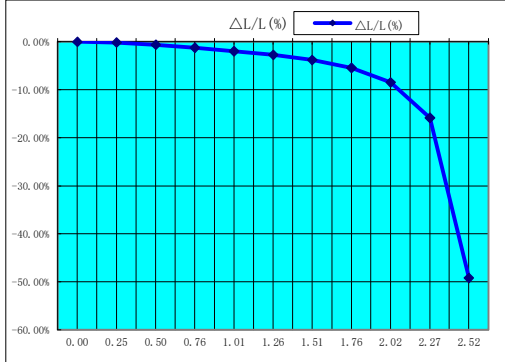
DATE 2025/3/18

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%	82 Max.	1.95 Max.	△L/L≤-30%	2.05 △T≤40℃ ℃				上限 2.3 下限 1.9	1.9 1.5	1.15 MAX
TEST FREQ.	1MHz/1V		1MHz/1V								
1	0.700	56.7	0.681	-2.71%	OK				2.14	1.78	1.07
2	0.707	60.8	0.686	-2.97%	OK				2.13	1.77	1.05
3	0.710	57.8	0.689	-2.96%	OK				2.12	1.78	1.04
4	0.702	57.6	0.681	-2.99%	OK				2.13	1.79	1.08
5	0.693	58.2	0.671	-3.17%	OK				2.12	1.79	1.07
6	0.709	57.9	0.685	-3.39%	OK				2.15	1.73	1.03
7	0.719	60.6	0.692	-3.76%	OK				2.14	1.72	1.04
8	0.711	60.3	0.690	-2.95%	OK				2.14	1.74	1.02
9	0.695	59.9	0.672	-3.31%	OK				2.13	1.72	1.05
10	0.699	59.0	0.690	-1.29%	OK				2.10	1.73	1.03
AVG.	0.705	58.88	0.6837	-2.95%					2.13	1.755	1.048
R	0.026	4.1	0.021	2.47%					0.05	0.07	0.06

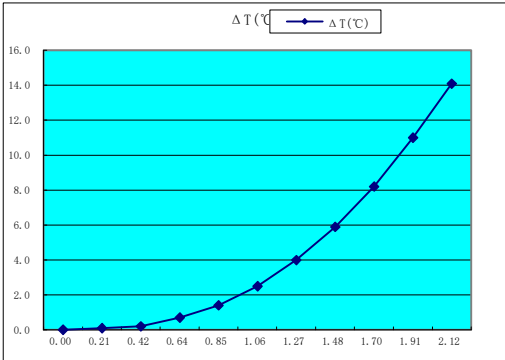
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	0.663	0.00%
1	0.25	0.662	-0.15%
1	0.50	0.659	-0.60%
1	0.76	0.655	-1.21%
1	1.01	0.650	-1.96%
1	1.26	0.645	-2.71%
1	1.51	0.638	-3.77%
1	1.76	0.627	-5.43%
1	2.02	0.607	-8.45%
1	2.27	0.558	-15.84%
1	2.52	0.337	-49.17%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	0.72	0.00%	26.6	0.0
30	0.21	0.72	0.00%	26.7	0.1
30	0.42	0.71	-1.39%	26.8	0.2
30	0.64	0.71	-1.39%	27.3	0.7
30	0.85	0.71	-1.39%	28.0	1.4
30	1.06	0.70	-2.78%	29.1	2.5
30	1.27	0.70	-2.78%	30.6	4.0
30	1.48	0.69	-4.17%	32.5	5.9
30	1.70	0.66	-8.33%	34.8	8.2
30	1.91	0.61	-15.28%	37.6	11.0
30	2.12	0.38	-47.22%	40.7	14.1



承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR201610A-1R0YC

PART NO. CKNR201610A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

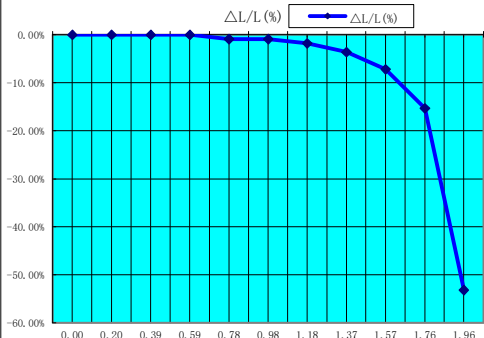
DATE 2025/3/18

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%	120 Max.	1.50 Max.	△L/L≤-30%	1.50 △T≤40℃ ℃				上限 2.3 下限 1.9	1.9 1.5	1.15 MAX
TEST FREQ.	1MHz/1V		1MHz/1V								
1	1.15	93.5	1.11	-3.48%	OK				2.18	1.87	1.03
2	1.13	93.0	1.09	-3.54%	OK				2.14	1.80	1.04
3	1.15	95.6	1.10	-4.35%	OK				2.14	1.83	1.04
4	1.14	98.8	1.10	-3.51%	OK				2.14	1.81	1.02
5	1.14	93.7	1.10	-3.51%	OK				2.14	1.79	1.03
6	1.15	91.9	1.11	-3.48%	OK				2.12	1.77	1.03
7	1.14	95.5	1.08	-5.26%	OK				2.13	1.81	1.03
8	1.12	93.2	1.10	-1.79%	OK				2.14	1.78	1.03
9	1.16	95.9	1.12	-3.45%	OK				2.12	1.77	1.02
10	1.17	91.2	1.13	-3.42%	OK				2.15	1.84	1.04
AVG.	1.145	94.23	1.104	-3.58%					2.14	1.807	1.031
R	0.05	7.6	0.05	3.48%					0.06	0.1	0.02

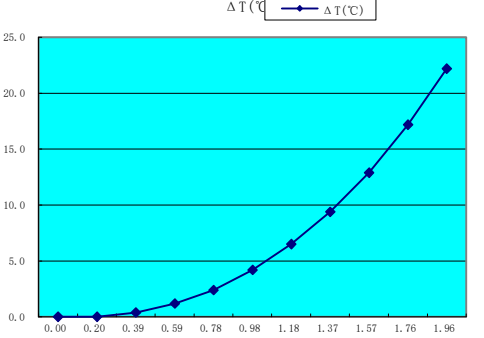
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Isat(A)	L(UH)	ΔL/L(%)
1	0.00	1.11	0.00%
1	0.20	1.11	0.00%
1	0.39	1.11	0.00%
1	0.59	1.11	0.00%
1	0.78	1.10	-0.90%
1	0.98	1.10	-0.90%
1	1.18	1.09	-1.80%
1	1.37	1.07	-3.60%
1	1.57	1.03	-7.21%
1	1.76	0.94	-15.32%
1	1.96	0.52	-53.15%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	1.13	0.00%	30.3	0.0
30	0.20	1.12	-0.88%	30.3	0.0
30	0.39	1.12	-0.88%	30.7	0.4
30	0.59	1.12	-0.88%	31.5	1.2
30	0.78	1.11	-1.77%	32.7	2.4
30	0.98	1.10	-2.65%	34.5	4.2
30	1.18	1.09	-3.54%	36.8	6.5
30	1.37	1.07	-5.31%	39.7	9.4
30	1.57	1.03	-8.85%	43.2	12.9
30	1.76	0.94	-16.81%	47.5	17.2
30	1.96	0.55	-51.33%	52.5	22.2



承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR201610A-1R5YC

PART NO. CKNR201610A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

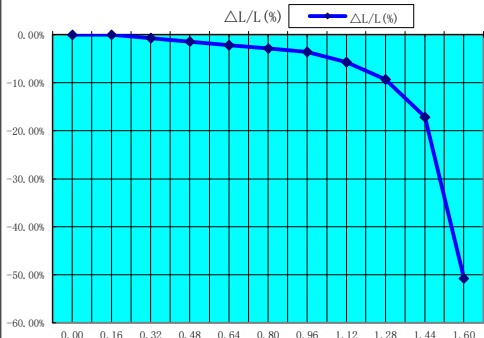
DATE 2025/3/18

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION								DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm
SPEC.	1.5 ± 30%	174 Max.	1.35 Max.	ΔL/L≤-30%	1.40 ΔT≤40℃ ℃			上限 下限	2.3 1.9	1.9 1.5	1.10 MAX
TEST FREQ.	1MHz/1V		1MHz/1V								
1	1.46	122	1.37	-6.16%	OK				2.11	1.77	1.00
2	1.45	117	1.38	-4.83%	OK				2.11	1.75	1.01
3	1.42	120	1.35	-4.93%	OK				2.10	1.76	1.01
4	1.47	118	1.39	-5.44%	OK				2.12	1.74	0.99
5	1.43	121	1.36	-4.90%	OK				2.13	1.78	1.02
6	1.46	120	1.38	-5.48%	OK				2.15	1.78	1.02
7	1.42	118	1.35	-4.93%	OK				2.12	1.79	1.03
8	1.48	121	1.39	-6.08%	OK				2.11	1.76	1.01
9	1.45	117	1.38	-4.83%	OK				2.13	1.77	1.00
10	1.46	119	1.36	-6.85%	OK				2.12	1.78	1.02
AVG.	1.450	119.3	1.371	-5.44%					2.12	1.768	1.011
R	0.06	5	0.04	2.02%					0.05	0.05	0.04

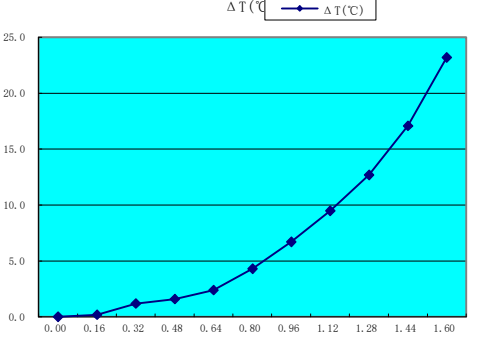
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	1.40	0.00%
1	0.16	1.40	0.00%
1	0.32	1.39	-0.71%
1	0.48	1.38	-1.43%
1	0.64	1.37	-2.14%
1	0.80	1.36	-2.86%
1	0.96	1.35	-3.57%
1	1.12	1.32	-5.71%
1	1.28	1.27	-9.29%
1	1.44	1.16	-17.14%
1	1.60	0.69	-50.71%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	1.46	0.00%	27.0	0.0
30	0.16	1.46	0.00%	27.2	0.2
30	0.32	1.45	-0.68%	28.2	1.2
30	0.48	1.45	-0.68%	28.6	1.6
30	0.64	1.44	-1.37%	29.4	2.4
30	0.80	1.42	-2.74%	31.3	4.3
30	0.96	1.40	-4.11%	33.7	6.7
30	1.12	1.37	-6.16%	36.5	9.5
30	1.28	1.33	-8.90%	39.7	12.7
30	1.44	1.15	-21.23%	44.1	17.1
30	1.60	0.64	-56.16%	50.2	23.2



承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR201610A-2R2MC

PART NO. CKNR201610A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

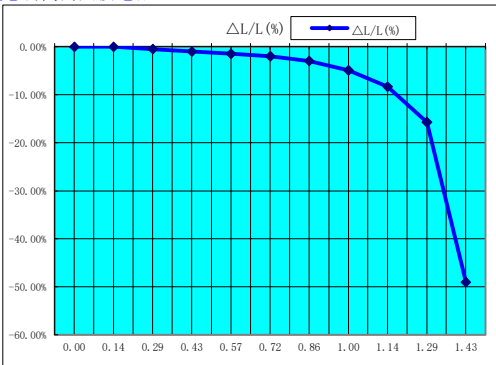
DATE 2025/3/18

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION								DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm
SPEC.	2.2 ± 20%	205 Max.	1.10 Max.	ΔL/L≤-30%	1.20 ΔT≤40℃ ℃				上限 2.3 下限 1.9	1.9 1.5	1.10 MAX
TEST FREQ.	1MHz/1V		1MHz/1V								
1	2.11	159	2.03	-3.79%	OK				2.12	1.76	1.00
2	2.09	158	2.03	-2.87%	OK				2.18	1.82	1.02
3	2.10	156	2.01	-4.29%	OK				2.17	1.79	1.03
4	2.12	154	2.05	-3.30%	OK				2.13	1.78	1.03
5	2.09	149	2.01	-3.83%	OK				2.15	1.78	1.04
6	2.09	157	2.01	-3.83%	OK				2.19	1.82	1.02
7	2.12	154	2.04	-3.77%	OK				2.12	1.79	1.02
8	2.08	155	2.01	-3.37%	OK				2.13	1.80	1.04
9	2.05	157	1.97	-3.90%	OK				2.21	1.81	1.03
10	2.10	155	2.03	-3.33%	OK				2.20	1.80	1.04
AVG.	2.095	155.4	2.019	-3.63%					2.16	1.795	1.027
R	0.07	10	0.08	1.41%					0.09	0.06	0.04

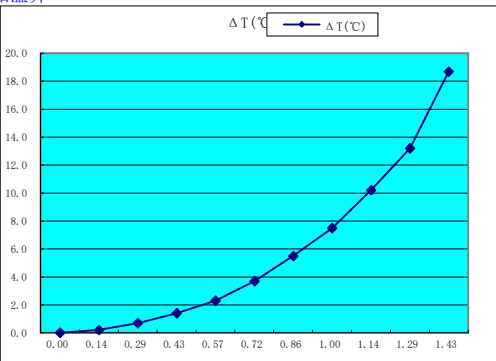
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	2.04	0.00%
1	0.14	2.04	0.00%
1	0.29	2.03	-0.49%
1	0.43	2.02	-0.98%
1	0.57	2.01	-1.47%
1	0.72	2.00	-1.96%
1	0.86	1.98	-2.94%
1	1.00	1.94	-4.90%
1	1.14	1.87	-8.33%
1	1.29	1.72	-15.69%
1	1.43	1.04	-49.02%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	1.94	0.00%	27.3	0.0
30	0.14	1.94	0.00%	27.5	0.2
30	0.29	1.94	0.00%	28.0	0.7
30	0.43	1.93	-0.52%	28.7	1.4
30	0.57	1.92	-1.03%	29.6	2.3
30	0.72	1.90	-2.06%	31.0	3.7
30	0.86	1.87	-3.61%	32.8	5.5
30	1.00	1.83	-5.67%	34.8	7.5
30	1.14	1.76	-9.28%	37.5	10.2
30	1.29	1.62	-16.49%	40.5	13.2
30	1.43	1.22	-37.11%	46.0	18.7



承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR201610A-3R3MC

PART NO. CKNR201610A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

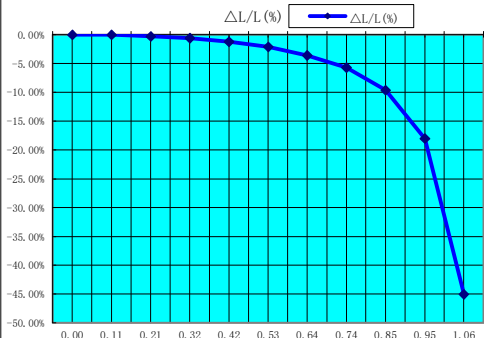
DATE 2025/3/18

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%	335 Max.	0.90 Max.	△L/L≤-30%	0.88 △T≤40℃ ℃			上限 下限	2.3 1.9	1.9 1.5	1.10 MAX
TEST FREQ.	1MHz/1V		1MHz/1V								
1	3.35	270	3.16	-5.67%	OK				2.19	1.79	0.99
2	3.23	276	3.07	-4.95%	OK				2.16	1.81	1.02
3	3.38	269	3.16	-6.51%	OK				2.14	1.80	1.01
4	3.32	258	3.10	-6.63%	OK				2.19	1.77	1.02
5	3.33	256	3.15	-5.41%	OK				2.15	1.79	1.00
6	3.20	266	3.04	-5.00%	OK				2.08	1.69	0.98
7	3.31	259	3.08	-6.95%	OK				2.04	1.68	0.97
8	3.26	274	3.07	-5.83%	OK				2.06	1.67	1.00
9	3.23	272	3.08	-4.64%	OK				2.09	1.90	1.01
10	3.28	256	3.07	-6.40%	OK				2.14	1.74	0.99
AVG.	3.289	265.6	3.098	-5.80%					2.124	1.764	0.999
R	0.18	20	0.12	2.30%					0.15	0.23	0.05

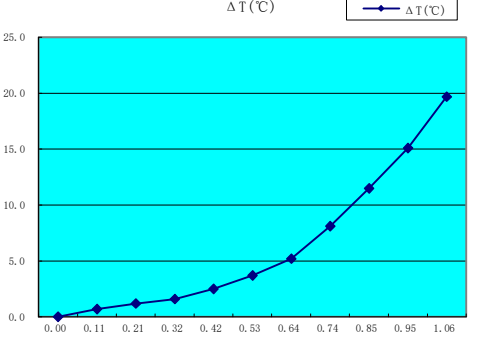
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	3.33	0.00%
1	0.11	3.33	0.00%
1	0.21	3.32	-0.30%
1	0.32	3.31	-0.60%
1	0.42	3.29	-1.20%
1	0.53	3.26	-2.10%
1	0.64	3.21	-3.60%
1	0.74	3.14	-5.71%
1	0.85	3.01	-9.61%
1	0.95	2.73	-18.02%
1	1.06	1.83	-45.05%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	3.35	0.00%	28.0	0.0
30	0.11	3.35	0.00%	28.7	0.7
30	0.21	3.34	-0.30%	29.2	1.2
30	0.32	3.34	-0.30%	29.6	1.6
30	0.42	3.31	-1.19%	30.5	2.5
30	0.53	3.28	-2.09%	31.7	3.7
30	0.64	3.23	-3.58%	33.2	5.2
30	0.74	3.02	-9.85%	36.1	8.1
30	0.85	2.91	-13.13%	39.5	11.5
30	0.95	1.74	-48.06%	43.1	15.1
30	1.06	0.95	-71.64%	47.7	19.7



承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR201610A-4R7MC

PART NO. CKNR201610A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

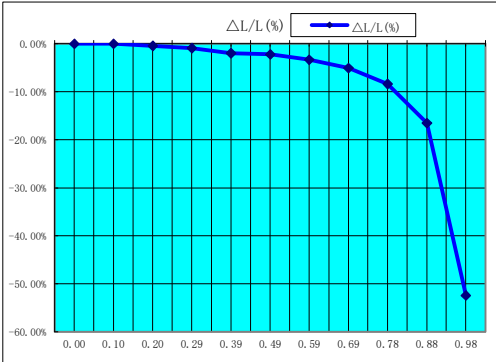
DATE 2025/3/18

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION									DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A					長 mm	寬 mm	高 mm
SPEC.	4.7 ± 20%	479 Max.	0.77 Max.	ΔL/L≤-30%	0.90 ΔT≤40℃ ℃				上限 下限	2.3 1.9	1.9 1.5	1.10 MAX
TEST FREQ.	1MHz/1V		1MHz/1V									
1	4.76	355	4.45	-6.5%	OK					2.10	1.77	1.01
2	4.73	361	4.46	-5.7%	OK					2.10	1.73	1.01
3	4.77	361	4.49	-5.9%	OK					2.15	1.77	0.99
4	4.82	357	4.55	-5.6%	OK					2.11	1.74	1.01
5	4.76	368	4.50	-5.5%	OK					2.11	1.73	1.01
6	4.98	365	4.59	-7.8%	OK					2.11	1.73	0.99
7	4.68	360	4.45	-4.9%	OK					2.12	1.74	1.00
8	4.72	363	4.46	-5.5%	OK					2.10	1.73	0.99
9	4.81	356	4.53	-5.8%	OK					2.13	1.74	1.00
10	4.71	364	4.48	-4.9%	OK					2.11	1.74	1.00
AVG.	4.774	361	4.496	-5.81%						2.114	1.742	1.001
R	0.3	13	0.14	2.95%						0.05	0.04	0.02

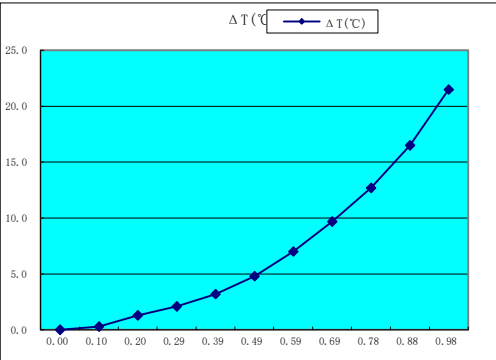
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	4.54	0.00%
1	0.10	4.54	0.00%
1	0.20	4.52	-0.44%
1	0.29	4.50	-0.88%
1	0.39	4.45	-1.98%
1	0.49	4.44	-2.20%
1	0.59	4.39	-3.30%
1	0.69	4.31	-5.07%
1	0.78	4.16	-8.37%
1	0.88	3.79	-16.52%
1	0.98	2.16	-52.42%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	4.45	0.00%	27.5	0.0
30	0.10	4.43	-0.45%	27.8	0.3
30	0.20	4.44	-0.22%	28.8	1.3
30	0.29	4.41	-0.90%	29.6	2.1
30	0.39	4.41	-0.90%	30.7	3.2
30	0.49	4.37	-1.80%	32.3	4.8
30	0.59	4.30	-3.37%	34.5	7.0
30	0.69	4.19	-5.84%	37.2	9.7
30	0.78	3.98	-10.56%	40.2	12.7
30	0.88	3.46	-22.25%	44.0	16.5
30	0.98	1.88	-57.75%	49.0	21.5



承 認 書

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR201610A-6R8MC

PART NO. CKNR201610A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

DATE 2025/3/18

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION								DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm
SPEC.	6.8 ± 20%	816 Max.	0.70 Max.	ΔL/L≤-30%	0.52 ΔT≤40℃ ℃				上限 2.3 下限 1.9	1.9 1.5	1.10 MAX
TEST FREQ.	1MHz/1V		1MHz/1V								
1	6.49	537	5.75	-11.40%	OK				2.11	1.74	0.93
2	6.58	547	5.80	-11.85%	OK				2.12	1.73	0.93
3	6.60	544	5.73	-13.18%	OK				2.13	1.74	0.90
4	6.56	546	5.82	-11.28%	OK				2.10	1.72	0.93
5	6.71	547	5.92	-11.77%	OK				2.11	1.75	0.89
6	6.55	539	5.88	-10.23%	OK				2.10	1.69	0.95
7	6.62	544	5.81	-12.24%	OK				2.08	1.68	0.97
8	6.55	548	5.66	-13.59%	OK				2.07	1.74	0.98
9	6.54	542	5.97	-8.72%	OK				2.15	1.75	0.96
10	6.65	536	5.90	-11.28%	OK				2.13	1.73	0.94
AVG.	6.585	543	5.824	-11.55%					2.11	1.727	0.938
R	0.22	12	0.31	4.87%					0.08	0.07	0.09

Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	6.75	0.00%
1	0.08	6.75	0.00%
1	0.15	6.73	-0.30%
1	0.23	6.72	-0.44%
1	0.30	6.69	-0.89%
1	0.38	6.64	-1.63%
1	0.46	6.58	-2.52%
1	0.53	6.47	-4.15%
1	0.61	6.25	-7.41%
1	0.68	5.75	-14.81%
1	0.76	3.56	-47.26%

單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	6.51	0.00%	23.9	0.0
30	0.08	6.47	-0.61%	24.4	0.5
30	0.15	6.42	-1.38%	25.2	1.3
30	0.23	6.41	-1.54%	26.4	2.5
30	0.30	6.37	-2.15%	28.2	4.3
30	0.38	6.30	-3.23%	30.5	6.6
30	0.46	6.22	-4.45%	33.5	9.6
30	0.53	6.09	-6.45%	37.2	13.3
30	0.61	5.84	-10.29%	41.7	17.8
30	0.68	5.29	-18.74%	47.3	23.4
30	0.76	3.17	-51.31%	53.6	29.7

承认书

SPECIFICATION FOR APPROVAL



CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR201610A-100MC

PART NO. CKNR201610A Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

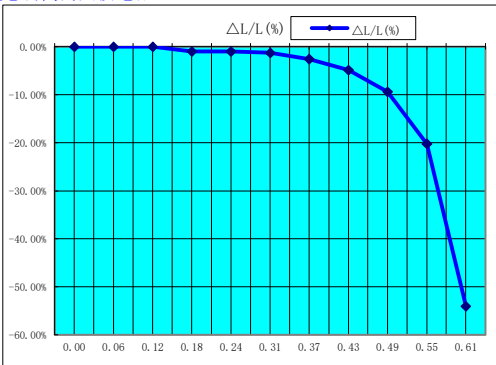
DATE 2025/3/18

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%	912 Max.	0.55 Max.	ΔL/L≤-30%	0.45 ΔT≤40℃ ℃				上限 2.3 下限 1.9	1.9 1.5	1.10 MAX
TEST FREQ.	1MHz/1V		1MHz/1V								
1	10.4	749	9.71	-6.63%	OK				2.11	1.77	1.00
2	10.6	740	9.74	-8.11%	OK				2.13	1.78	1.01
3	10.5	755	9.85	-6.19%	OK				2.15	1.77	1.00
4	10.6	754	9.73	-8.21%	OK				2.12	1.78	1.02
5	10.5	744	9.76	-7.05%	OK				2.14	1.76	1.02
6	10.4	746	9.62	-7.50%	OK				2.12	1.75	1.01
7	10.5	754	9.65	-8.10%	OK				2.13	1.76	1.00
8	10.6	748	9.85	-7.08%	OK				2.10	1.80	0.99
9	10.4	751	9.45	-9.13%	OK				2.13	1.74	0.98
10	10.6	753	9.81	-7.45%	OK				2.15	1.73	0.99
AVG.	10.510	749.4	9.717	-7.55%					2.128	1.764	1.002
R	0.2	15	0.4	2.94%					0.05	0.07	0.04

Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	10.1	0.00%
1	0.06	10.1	0.00%
1	0.12	10.1	0.00%
1	0.18	10.0	-0.99%
1	0.24	10.0	-0.99%
1	0.31	9.97	-1.29%
1	0.37	9.84	-2.57%
1	0.43	9.61	-4.85%
1	0.49	9.15	-9.41%
1	0.55	8.06	-20.20%
1	0.61	4.64	-54.06%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	10.1	0.00%	24.7	0.0
30	0.06	10.1	0.00%	24.7	0.0
30	0.12	10.1	0.00%	25.0	0.3
30	0.18	10.0	-0.99%	26.0	1.3
30	0.24	10.0	-0.99%	27.0	2.3
30	0.30	9.92	-1.78%	28.2	3.5
30	0.36	9.78	-3.17%	29.9	5.2
30	0.42	9.53	-5.64%	32.0	7.3
30	0.48	9.02	-10.69%	34.6	9.9
30	0.54	7.76	-23.17%	37.7	13.0
30	0.60	4.33	-57.13%	41.4	16.7

