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

RoHS Compliance

广 东 今 凯 电 子 科 技 有 限 公 司

GUANG DONG CHK ELECTRONIC TECH Co., Ltd

ECN HISTORY LIST

REV	DATE	DESCRIPTION	CHECK	APPROVED
A	2025/3/18	新作成	林树英	黄大燕

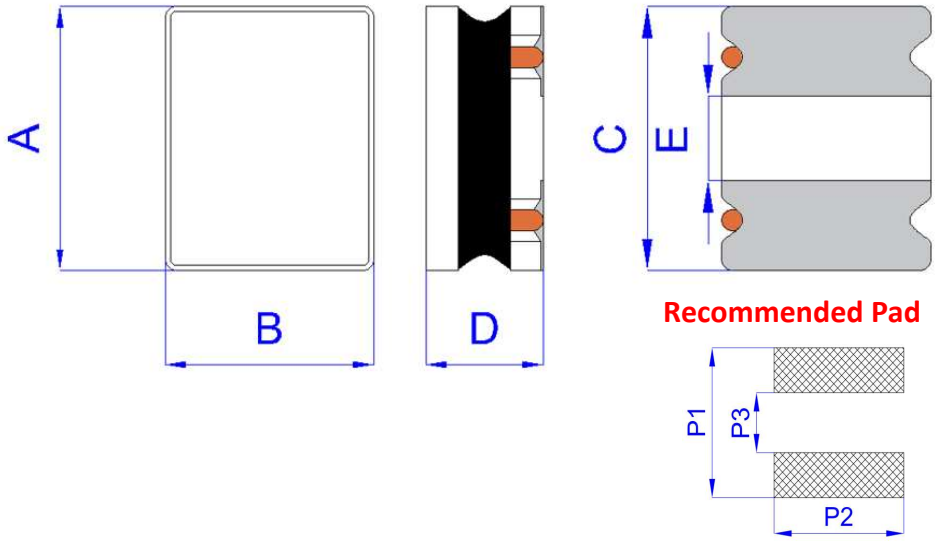
广 东 今 凯 电 子 科 技 有 限 公 司

GUANG DONG CHK ELECTRONIC TECH Co., Ltd

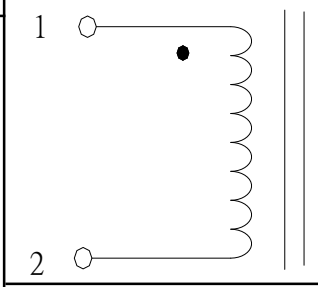
CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 1/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR201610A Series	DATE	2025/3/18

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
黄大燕	黄大燕	林树英

CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 2/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
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 △T≦40℃.(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※

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

CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 3/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR201610A Series	DATE	2025/3/18

3.MATERIAL LIST & GENERAL SPECIFICATION

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

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

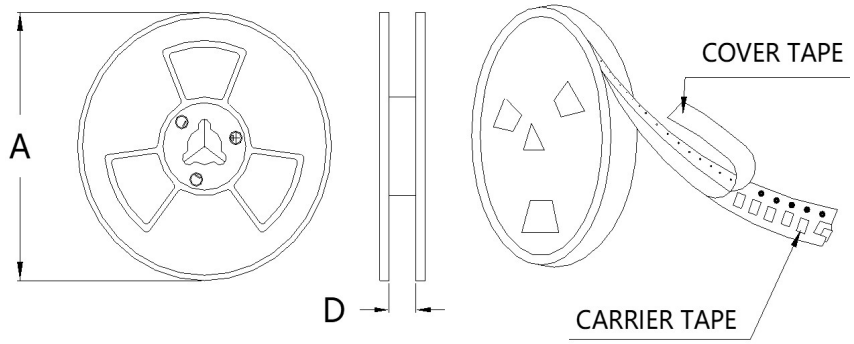
APPROVED BY	CHECKED BY	DRAWN BY
黄大燕	黄大燕	林树英

广 东 今 凯 电 子 科 技 有 限 公 司
GUANG DONG CHK ELECTRONIC TECH Co., Ltd

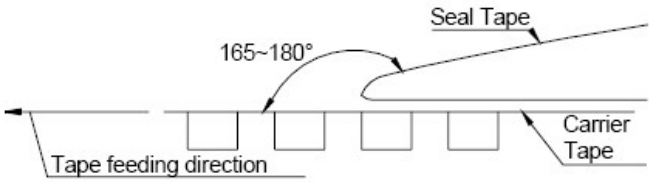
CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 4/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR201610A Series	DATE	2025/3/18

4.PACKAGING(unit: mm)

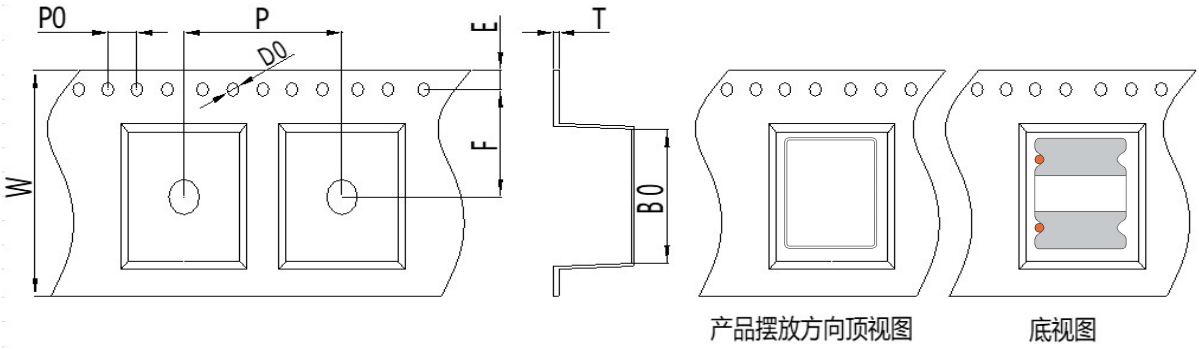
1.包装类型 **2.包装尺寸** □ 13″ 盘 ■ 7″ 盘



	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.



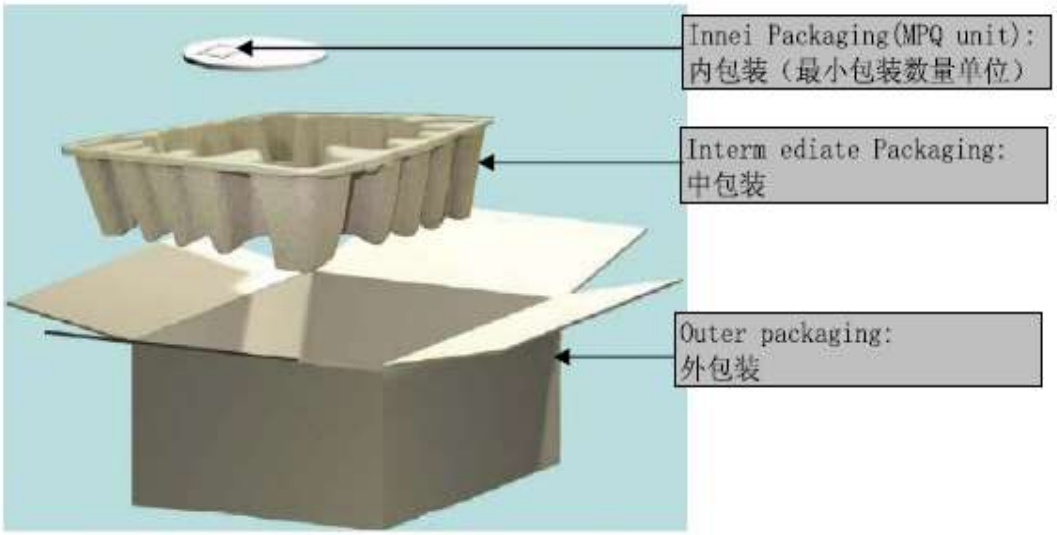
Item	W	B0	P	T	E	F	D0	P0		
DIM(mm)	8.0± 0.3	2.4± 0.1	4.0± 0.1	0.3± 0.05	1.75± 0.1	3.5± 0.1	1.5± 0.1	4.0± 0.1		

APPROVED BY	CHECKED BY	DRAFT
黄大燕	黄大燕	林树英

广 东 今 凯 电 子 科 技 有 限 公 司
GUANG DONG CHK ELECTRONIC TECH Co., Ltd

CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 5/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR201610A Series	DATE	2025/3/18

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

APPROVED BY	CHECKED BY	DRAFT
黄大燕	黄大燕	林树英

CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 6/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR201610A Series	DATE	2025/3/18

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

CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 7/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR201610A Series	DATE	2025/3/18

7. SOLDERING CONDITIONS

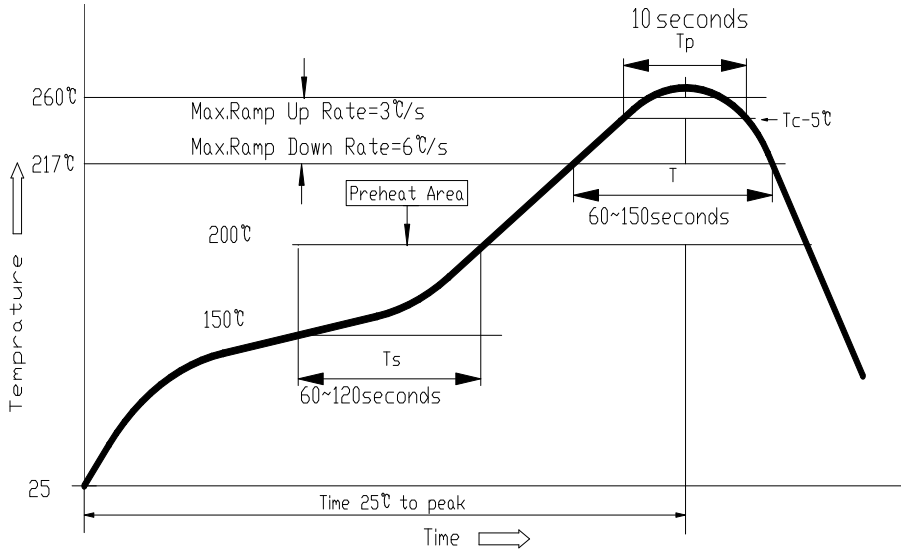
Applicable soldering process to the products is refl.

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

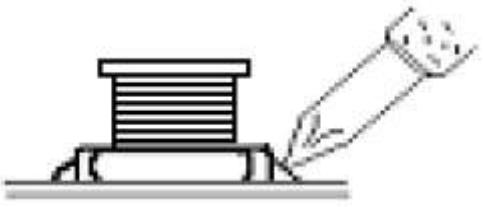
Reworking with electric solding iron must preheating at 150℃ for 1 minute is required,and do not directly touch the core with the tip of the soldering iron.The reworking soldering conditions are as follows.

①Temperature of soldering iron tip:350℃；

② Soldering iron power output:≤30W；

③ Diameter of soldering iron end:≤1.0mm；

④Soldering time:＜3 s

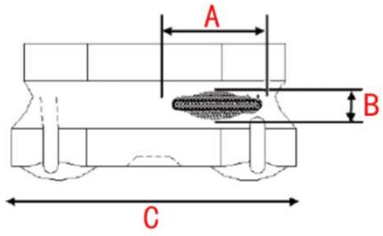


APPROVED BY	CHECKED BY	DRAFT
黄大燕	黄大燕	林树英

CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 8/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR201610A Series	DATE	2025/3/18

8.Appearance of the standard

1.Void appearance tolerance limit



Size of voids occurring to coating resin is specified below.

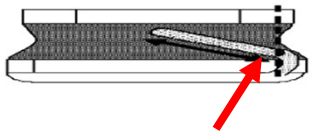
①Width direction(dimension A): Acceptable when A<=C/2

Nonconforming when B>=C/2

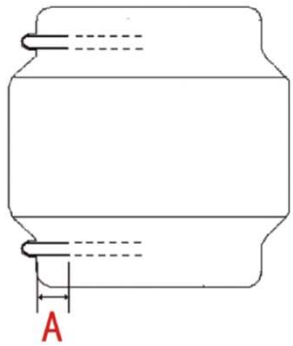
②Length direction(dimension B):Dimension b is not specified

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

APPROVED BY	CHECKED BY	DRAFT
黄大燕	黄大燕	林树英

承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

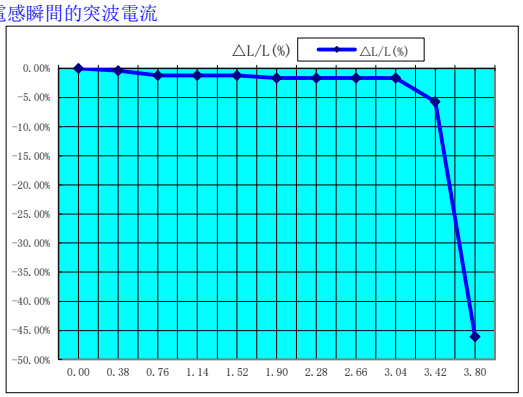
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N：	CKNR201610A-R24YC	TEST R.H.	80~85%
PART NO.	CKNR201610A Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/18

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 下限	2.3 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**

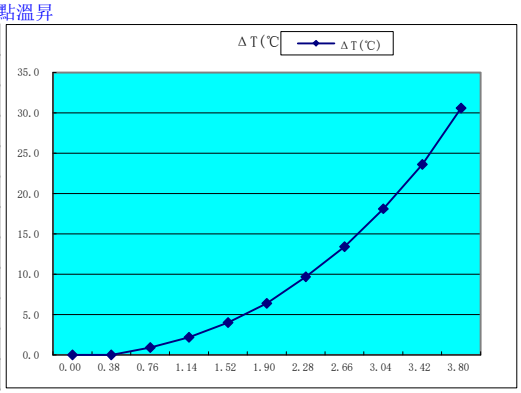
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/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%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
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



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

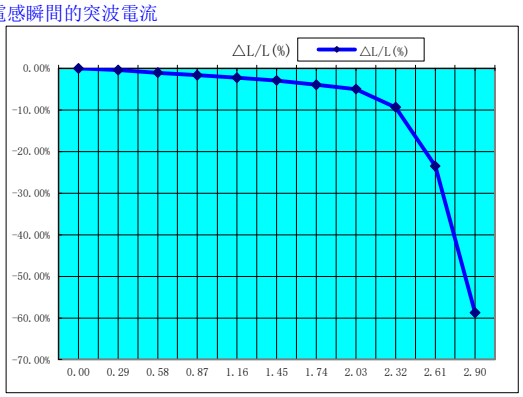
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N：	CKNR201610A-R47YC	TEST R.H.	80~85%
PART NO.	CKNR201610A Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/18

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.	0.47 ± 30%	70 Max.	2.30 Max.	△L/L≦-30%	2.20 △T≦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**

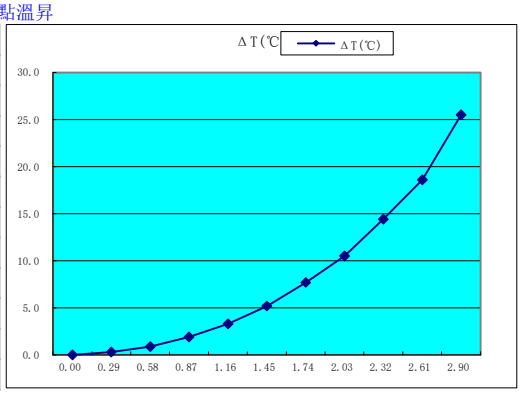
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	0.480	0.00%
1	0.29	0.478	-0.42%
1	0.58	0.475	-1.04%
1	0.87	0.472	-1.67%
1	1.16	0.469	-2.29%
1	1.45	0.466	-2.92%
1	1.74	0.461	-3.96%
1	2.03	0.456	-5.00%
1	2.32	0.435	-9.38%
1	2.61	0.367	-23.54%
1	2.90	0.198	-58.75%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	0.480	0.00%	28.1	0.0
30	0.29	0.480	0.00%	28.4	0.3
30	0.58	0.478	-0.42%	29.0	0.9
30	0.87	0.476	-0.83%	30.0	1.9
30	1.16	0.473	-1.46%	31.4	3.3
30	1.45	0.471	-1.88%	33.3	5.2
30	1.74	0.466	-2.92%	35.8	7.7
30	2.03	0.461	-3.96%	38.6	10.5
30	2.32	0.446	-7.08%	42.5	14.4
30	2.61	0.407	-15.21%	46.7	18.6
30	2.90	0.224	-53.33%	53.6	25.5



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

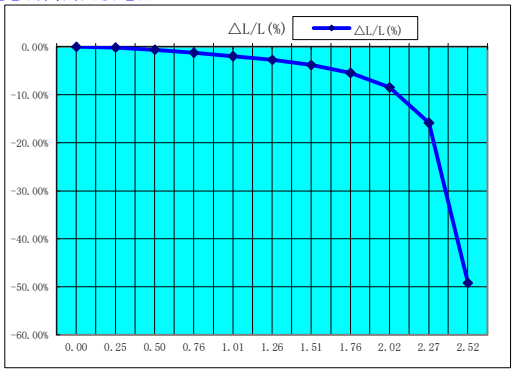
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR201610A-R68YC	TEST R.H.	80~85%
PART NO.	CKNR201610A Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/18

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.	ΔL/L≦-30%	2.05 ΔT≦40℃ ℃				上限 下限	2.3 1.9	1.9 1.5	1.15 MAX
TEST FREQ.	1MHz/1V		1MHz/1V									
1	0.700	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**

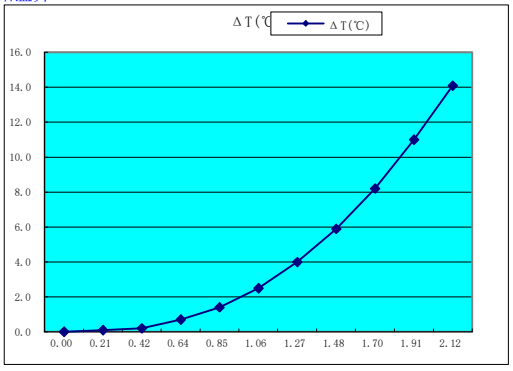
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/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

RoHS Compliance

CUSTOMER	
CUSTOMER'S P/N	
JINKAI P/N:	CKNR201610A-1R0YC
PART NO.	CKNR201610A Series
DRAWN NO.	

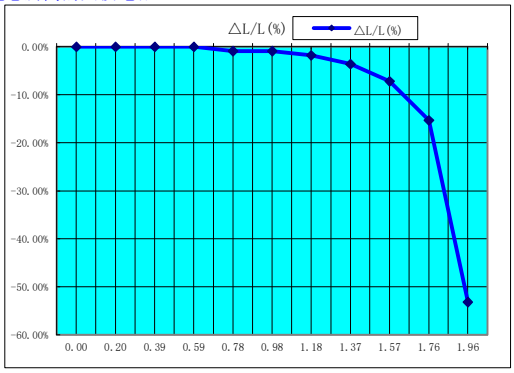
TEST R.H.	80~85%
TEST TEMP.	20~25℃
DATE	2025/3/18

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 下限	2.3 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**

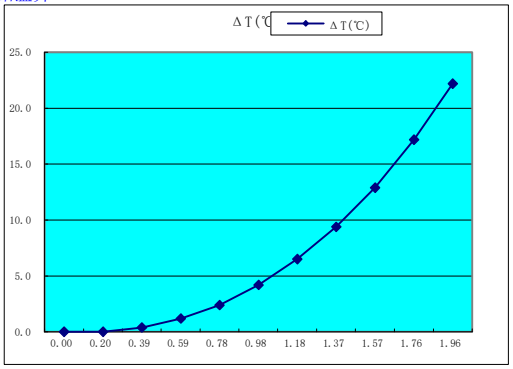
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/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

RoHS Compliance

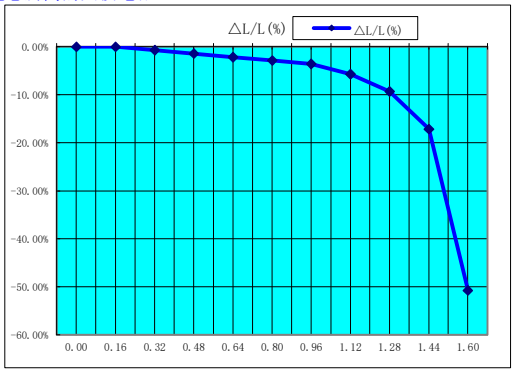
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR201610A-1R5YC	TEST R.H.	80~85%
PART NO.	CKNR201610A Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/18

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.	1.5 ± 30%	174 Max.	1.35 Max.	△L/L≦-30%	1.40 △T≦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**

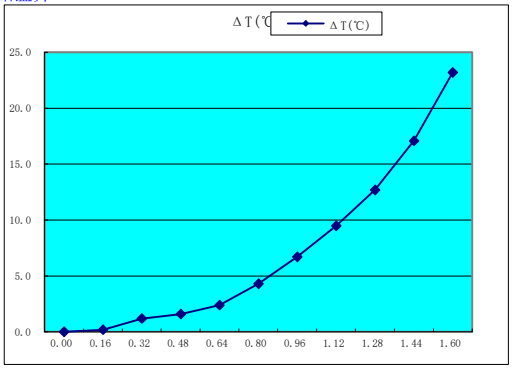
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/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

RoHS Compliance

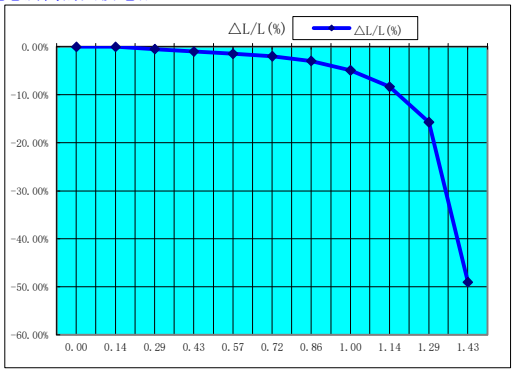
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR201610A-2R2MC	TEST R.H.	80~85%
PART NO.	CKNR201610A Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/18

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.	2.2 ± 20%	205 Max.	1.10 Max.	△L/L≦-30%	1.20 △T≦40℃ ℃				上限 下限	2.3 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**

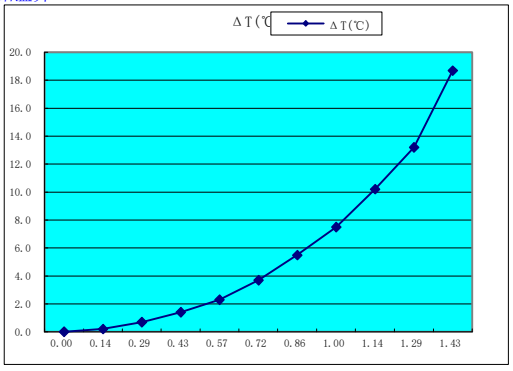
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/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

RoHS Compliance

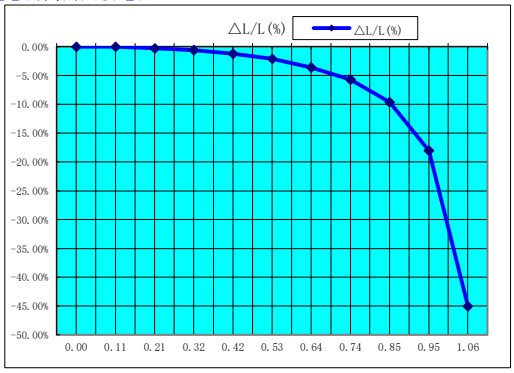
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR201610A-3R3MC	TEST R.H.	80~85%
PART NO.	CKNR201610A Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/18

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.	ΔL/L≦-30%	0.88 ΔT≦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**

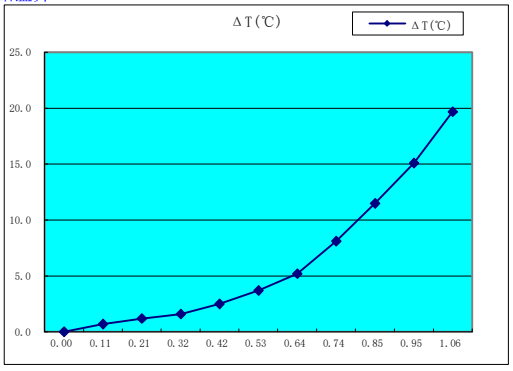
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/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

RoHS Compliance

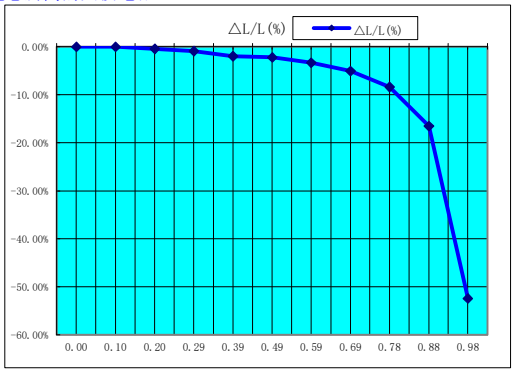
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR201610A-4R7MC	TEST R.H.	80~85%
PART NO.	CKNR201610A Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/18

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.	4.7 ± 20%	479 Max.	0.77 Max.	△L/L≦-30%	0.90 △T≦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**

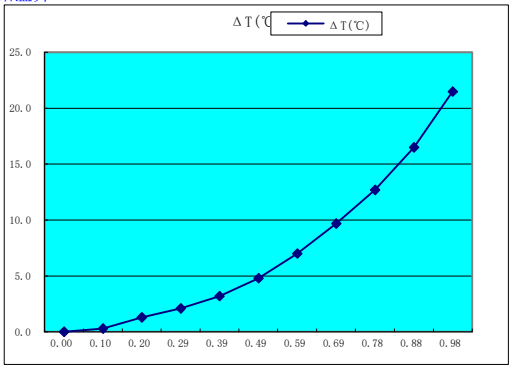
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/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 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

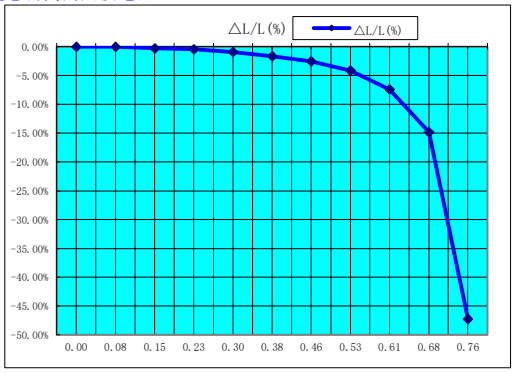
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR201610A-6R8MC	TEST R.H.	80~85%
PART NO.	CKNR201610A Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/18

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.	6.8 ± 20%	816 Max.	0.70 Max.	△L/L≦-30%	0.52 △T≦40℃ ℃				上限 下限	2.3 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**

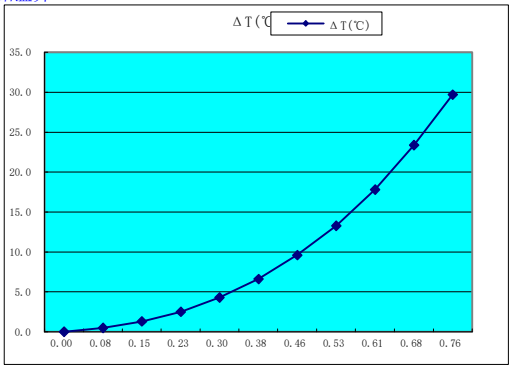
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/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

RoHS Compliance

CUSTOMER	
CUSTOMER'S P/N	
JINKAI P/N:	CKNR201610A-100MC
PART NO.	CKNR201610A Series
DRAWN NO.	

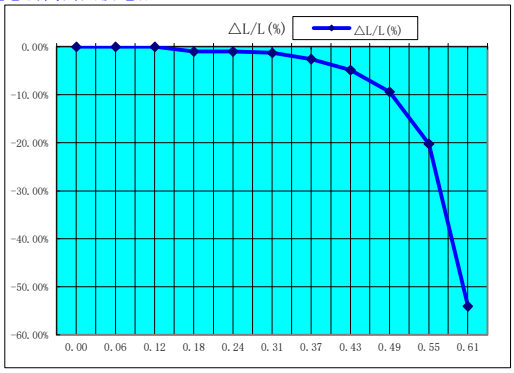
TEST R.H.	80~85%
TEST TEMP.	20~25℃
DATE	2025/3/18

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION									DIMENSION (Unit：mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	△L/L	Irms A					長 mm	寬 mm	高 mm
SPEC.	10.0 ± 20%	912 Max.	0.55 Max.	△L/L≦-30%	0.45 △T≦40℃ ℃				上限 下限	2.3 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)	△L/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

