承认书

SPECIFICATIONFORAPPROVAL

CUSTOMER			
CUSTOMER'SP/N			
DATE	05/Mar/2025	REVISIONNO.	A
PARTNO.	CKNR4030Z Series		
DRAWNNO.			
DESCRIPTION.	SMD POWER INDUCTOR		
Customer's Signature			

Approved by	Checked by	Drawn by
黄大燕	黄大燕	林树英
05/Mar/2025	05/Mar/2025	05/Mar/2025

广 东 今 凯 电 子 科 技 有 限 公 司

GUANG DONG CHK ELECTRONIC TECH Co., Ltd

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www.gzchk.com

RoHS Compliance

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GUANG DONG CHK ELECTRONIC TECH Co., Ltd

ECNHISTORYLIST

REV	DATE	DESCRIPTION	CHECK	APPROVED
A	2025/3/5	新作成	林树英	黄大燕

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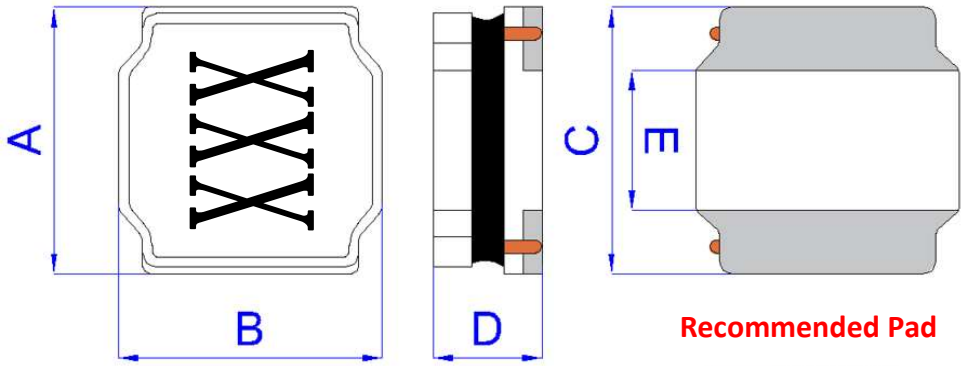
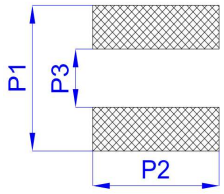
PARTNO.	CKNR4030Z Series	DATE	2025/3/5

1.SHAPE&DIMENSION

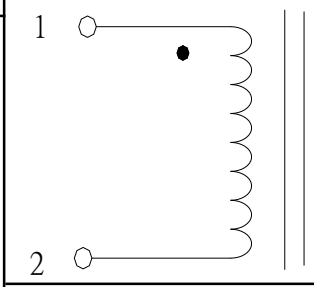
UNIT:mm



Recommended Pad



SCHEMATICS



MARKINGCOLOR

Black

A	B	C	D	E	P1	P2	P3
4	4	4	3	2.1	4	3.7	1.6
±0.2	±0.2	±0.2	MAX	±0.07	Ref.	Ref.	Ref.

CK NR 4030 Z - 2R2 M C

1 2 3 4 5 6 7

1 **CHKPRODUCTION(今凯制造)**

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

3 **DIMENSIONS（尺寸规格）**

4 **MATERIALTYPE（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**

APPROVEDBY	CHECKEDBY	DRAFTBY
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DESCRIPTION.	SMD POWER INDUCTOR	DRAWNNO.	0
PARTNO.	CKNR4030Z Series	DATE	2025/3/5

2.SERIESSPECIFICATION

◆CKNR4030Z Series Specification:

PartNumber	Inductance	Test Freq	DCR mΩ		Isat A		Irms A	
	(μH)	(Hz)	Max	Typ	Max	Typ	Max	Typ
CKNR4030Z-R68YC	0.68±30%	100KHz/1V	13	10	6.80	8.00	4.56	5.10
CKNR4030Z-1R0YC	1.0±30%		18	14	5.26	5.70	4.15	4.70
CKNR4030Z-1R2YC	1.2±30%		20	15	5.80	6.30	3.82	4.20
CKNR4030Z-1R5YC	1.5±30%		26	20	4.84	5.30	3.34	3.60
CKNR4030Z-1R8YC	1.8±30%		33	25	4.50	5.00	3.20	3.30
CKNR4030Z-2R2YC	2.2±30%		39	30	4.90	5.80	2.95	3.20
CKNR4030Z-3R3MC	3.3±20%		52	40	3.30	3.60	2.40	2.60
CKNR4030Z-3R9MC	3.9±20%		74	57	3.00	3.30	2.10	2.30
CKNR4030Z-4R3MC	4.3±20%		72	55	2.95	3.20	2.10	2.30
CKNR4030Z-4R7MC	4.7±20%		78	60	2.90	3.20	2.00	2.30
CKNR4030Z-5R6MC	5.6±20%		85	65	2.60	2.80	1.95	2.10
CKNR4030Z-6R8MC	6.8±20%		117	90	2.75	3.00	1.60	1.70
CKNR4030Z-7R5MC	7.5±20%		111	85	2.20	2.40	1.65	1.80
CKNR4030Z-8R2MC	8.2±20%		117	90	2.10	2.30	1.60	1.70
CKNR4030Z-100MC	10±20%		130	100	1.95	2.40	1.50	1.60
CKNR4030Z-120MC	12±20%		176	135	1.70	1.80	1.30	1.40
CKNR4030Z-150MC	15±20%		247	190	1.65	1.80	1.11	1.20
CKNR4030Z-180MC	18±20%		260	200	1.40	1.50	1.10	1.20
CKNR4030Z-220MC	22±20%		293	225	1.30	1.40	1.00	1.20
CKNR4030Z-330MC	33±20%		429	330	1.10	1.20	0.84	0.92
CKNR4030Z-360MC	36±20%		436	335	1.05	1.10	0.83	0.91
CKNR4030Z-390MC	39±20%		566	435	1.03	1.10	0.73	0.80
CKNR4030Z-470MC	47±20%		579	445	0.95	1.00	0.72	0.80
CKNR4030Z-510MC	51±20%		611	470	0.90	1.13	0.70	0.80
CKNR4030Z-560MC	56±20%		722	555	0.85	0.94	0.65	0.71
CKNR4030Z-620MC	62±20%		760	585	0.80	0.99	0.63	0.70
CKNR4030Z-680MC	68±20%		1128	868	0.72	0.80	0.52	0.57

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2.SERIESSPECIFICATION

◆CKNR4030Z Series Specification:

PartNumber	Inductance	Test Freq	DCR mΩ		Isat A		Irms A	
	(μH)	(Hz)	Max	Typ	Max	Typ	Max	Typ
CKNR4030Z-750MC	75±20%	100KHz/1V	1326	1020	0.70	0.88	0.48	0.53
CKNR4030Z-820MC	82±20%		1378	1060	0.66	0.72	0.47	0.52
CKNR4030Z-910MC	91±20%		1430	1100	0.65	0.71	0.46	0.50
CKNR4030Z-101MC	100±20%		1495	1150	0.60	0.73	0.45	0.49
CKNR4030Z-121MC	120±20%		1755	1350	0.55	0.60	0.42	0.46
CKNR4030Z-151MC	150±20%		2340	1800	0.50	0.55	0.30	0.35
CKNR4030Z-271KC	270±10%		4100	3200	0.32	0.37	0.21	0.28
CKNR4030Z-471KC	470±10%		9360	7200	0.30	0.35	0.20	0.23
CKNR4030Z-501MC	500±20%		9027	6944	0.28	0.30	0.15	0.20
CKNR4030Z-681MC	680±20%		9854	7580	0.19	0.20	0.14	0.18

◆TESTCONDITION

ITEM	TESTCONDITION	TESTINSTRUMENTS
L	100KHz/1V	Microtest6377
Isat		TH1773+Microtest6377
Irms		
DCR	25±5℃	TH2512B

*The operating temperature is 25℃

*Isat:For Inductance drop30% from its value without current

*Irms:ThevalueofD.Ccurrentwhenthetemperatureriseis△T≦40℃.(Ta=25℃)

*For CKNR4030Z 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※

APPROVEDBY	CHECKEDBY	DRAWNBY
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3.MATERIALLIST&GENERALSPECIFICATION

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（DrumCore)	镍锌（Nickel-Zinc)	DJ	RoHS	Primary
铜线（Wire）	PolyesterWireorequlvalent	ELEKTRISOLA	RoHS	
胶水（Glue)	Phenolicepoxyresin	DAJOO	RoHS	
锡（Solder)	107H	QD	RoHS	Primary
锡（Solder)	107H	TF	RoHS	Alternative

GENERALSPECIFICATION	
Electricalspecifications：	at20~25℃
OperationTemperature：	-40~+125℃
StorageTemperature：	-40~+125℃

◆TESTCONDITION

ITEM	TESTCONDITION	TESTINSTRUMENTS
L	100KHz/1V	Microtest6377
Isat		TH1773+Microtest6377
Irms		
DCR	25±5℃	TH2512B

APPROVEDBY	CHECKEDBY	DRAWNBY
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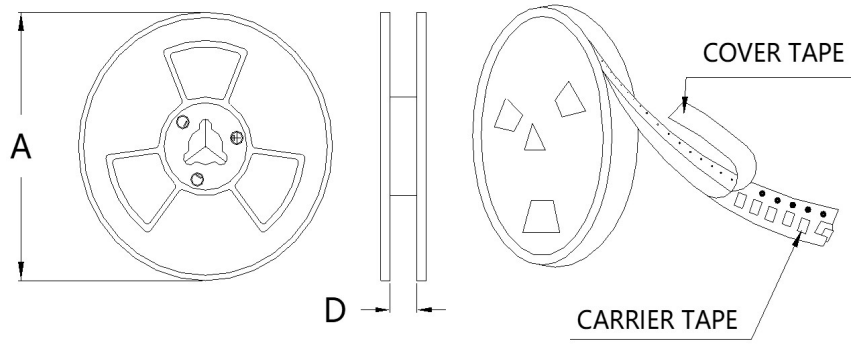
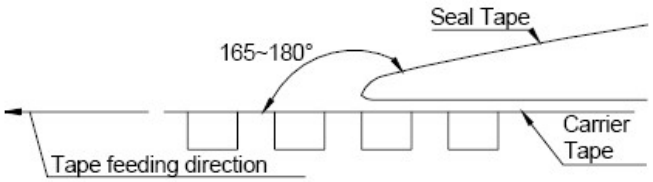
4.PACKAGING(unit:mm)

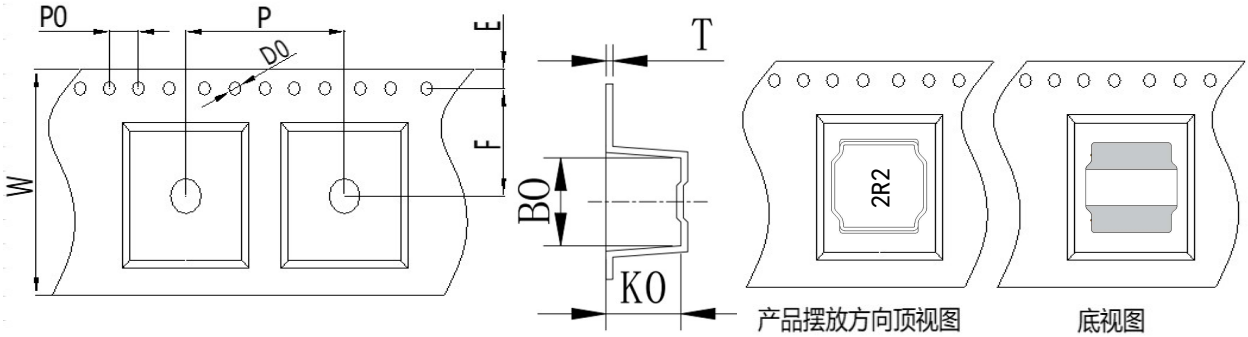
1.包装类型 **2.包装尺寸** ■ 13″盘 □ 7″盘



	13″盘	7″盘
A	Φ330±2.0	Φ178±2.0
D	12.4	



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



Item	W	B0	P	T	E	F	D0	P0	K0	
DIM(mm)	12±0.3	4.4±0.1	8.0±0.1	0.3±0.05	1.75±0.1	5.5±0.1	1.5±0.1	4.0±0.1	3.1±0.1	

APPROVEDBY	CHECKEDBY	DRAFT
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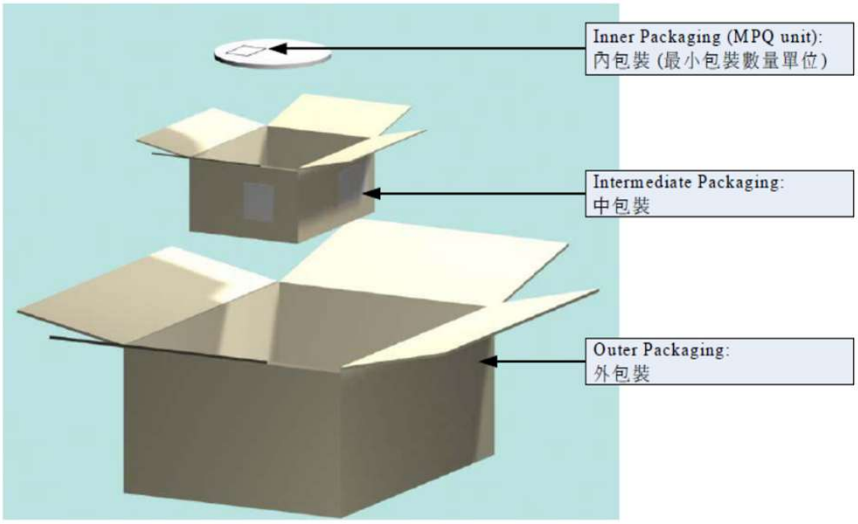
5.CARTON



1.1外箱:36*36*23cm一箱装2内箱
1.2内箱:33.5*33.5*9cm一箱装5卷制品
1.3外箱材質:A三A
1.4内箱材質:A=A
1.5每4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
(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

内箱包装数量				
每箱	5	卷,共	10000	PCS

备注：如果捆包数量小于内箱捆包数量时就用内箱包装

储存条件及期限：
温度：20-25℃
湿度：≦70%
时间：六个月

外箱包装数量				
每箱	10	卷,共	20000	PCS

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6.RELIABILITYTEST

	TestItems	TestConditions	Criteria
1	Low temperature storage	Placed at -40℃ for 500 hours, then measured at room ambient temperature after placing 24hours	Inductance shall be within ± 10% of the initial value.
2	High temperature storage	Placed at +125℃ for 500 hours, then measured at room ambient temperature after placing 24 hours	Inductance shall be within ± 10% of the initial value.
3	Thermal shock	Condition for 1 cycle: -40℃,30min.~+125℃,30min Number of cycles:5	Inductance shall be within ± 10% of the initial value.
4	Humidity resistance	Placed at 90 to 95%RH,+50℃ for 500 hours, then measured at room ambient temperature after placing 24 hours.	Inductance shall be within ± 10% of the initial value. Insulation resistance > 100MΩ at DC
5	Drop	Drop specimen three times on concrete floor from a height of 1 meter which mounted on test board	Inductance shall be within ± 10% of the initial value.
6	Vibration	Frequency::10~55~10Hz Amplitude:1.5mm or 10G Sweep time: 1 oct/min Test Directions: X,Y,Z Test Time: 2 hours each direction	Inductance shall be within ± 10% of the initial value.
7	Terminal strength	Add static load 4.9N(500gf) to inductor through hole of test board for 10±2 sec.	No detachment of terminal pin and no breakage of wire
8	Soldering heat resistance	Dip Inductor's terminal in solder bath of following conditions: 1) 260±5℃, 10±1 sec, 2) 350±10℃, 3.5±0.5 sec	Inductance shall be within ± 10% of the initial value. Apperance: No damage

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PARTNO.	CKNR4030Z Series	DATE	2025/3/5

7.SOLDERINGCONDITIONS

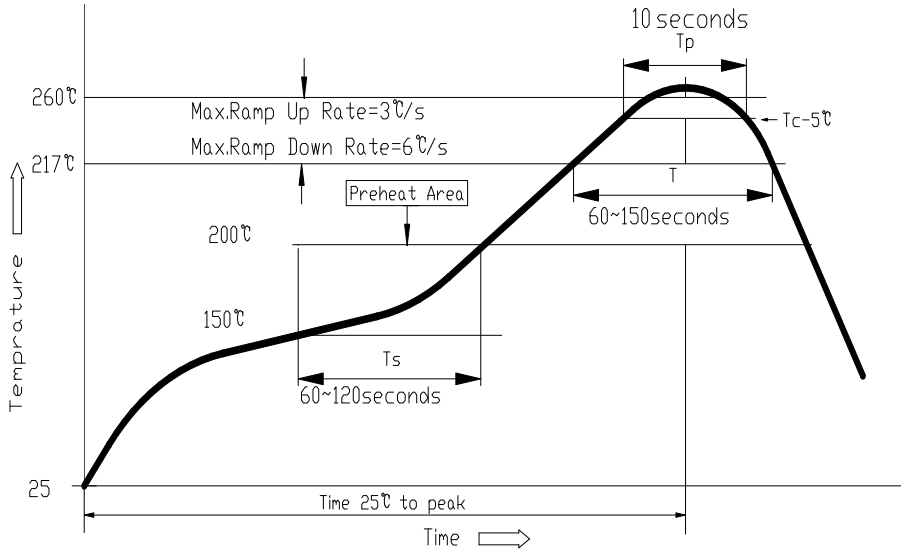
Applicable soldering process to the products is refl.

9.1 Soldering Materials

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

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

9.2 Reflow Soldering Profile



9.3 Soldering Iron

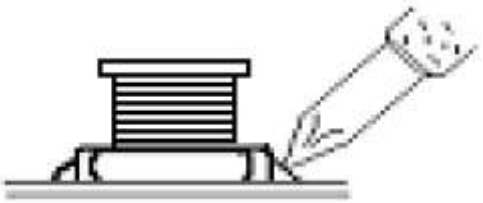
Reworking with electric solding iron must preheating at 150℃ for 1 minute is required,and do not directly touch the core with the tip of the soldering iron.The reworking soldering conditions are as follows.

①Temperature of soldering iron tip:350℃；

② Soldering iron power output:≤30W；

③ Diameter of soldering iron end:≤1.0mm；

④Soldering time:＜3 s



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DESCRIPTION.	SMD POWER INDUCTOR	DRAWNNO.	0
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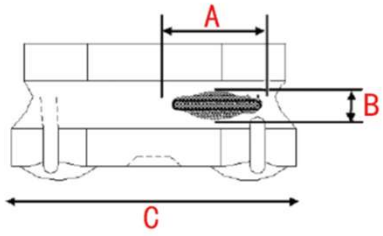
8.Appearanceofthestandard

1.Void appearance tolerance limit



Size of voids occurring to coating resin is specified below.

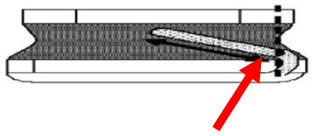
①Width direction(dimension A): Acceptable when A<=C/2

Nonconforming when B>=C/2

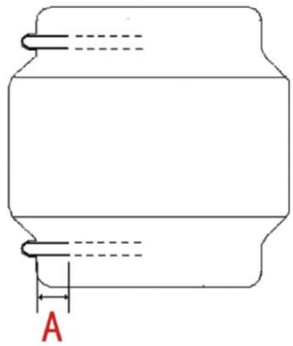
②Length direction(dimension B):Dimension b is not specified

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

2.External appearance criterion for exposed wire



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



①Acceptable when A<=0.8mm

②Nonconforming when A>0.8mm

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SPECIFICATIONFORAPPROVAL

RoHS Compliance

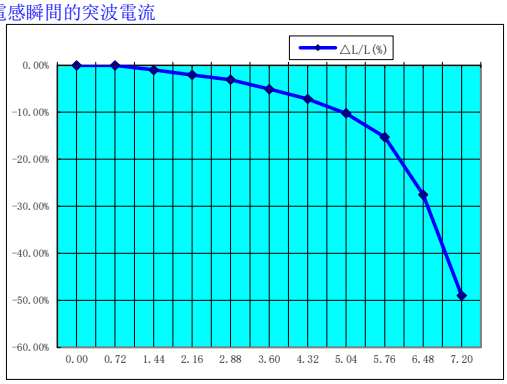
CUSTOMER			
CUSTOMER'SP/N			
JINKAIP/N:	CKNR4030Z-1R0YC	TESTR.H.	80~85%
#REF!	CKNR4030Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/5

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION									DIMENSION (Unit：mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	△L/L	Irms A					長 mm	寬 mm	高 mm
SPEC.	1 ± 30%	32.5 Max.	6.00 Max.	△L/L≦-30%	4.00 △T≦40℃ ℃				上限 下限	4.2 3.8	4.2 3.8	3.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	1.06	24.8	0.98	-7.55%	OK					4.01	4.00	2.80
2	1.09	25.4	0.95	-12.84%	OK					4.02	4.00	2.79
3	1.05	24.1	0.96	-8.57%	OK					3.98	4.00	2.83
4	1.04	25.5	0.95	-8.65%	OK					3.97	4.02	2.79
5	1.05	25.7	0.96	-8.57%	OK					4.01	4.00	2.80
6	1.06	24.3	0.96	-9.43%	OK					4.01	4.00	2.80
7	1.07	26.3	0.98	-8.41%	OK					4.02	4.00	2.79
8	1.10	26.6	0.95	-13.64%	OK					3.98	4.00	2.83
9	1.03	24.8	0.92	-10.68%	OK					3.97	4.02	2.79
10	1.04	25.7	0.94	-9.62%	OK					4.00	4.00	2.85
AVG.	**1.059**	**25.32**	**0.955**	**-9.80%**						**3.997**	**4.004**	**2.807**
R	**0.07**	**2.5**	**0.06**	**6.09%**						**0.05**	**0.02**	**0.06**

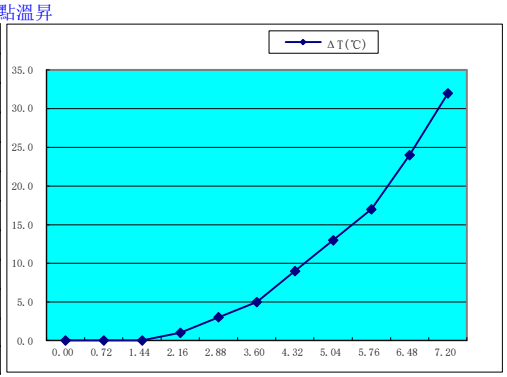
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	0.980	0.00%
1	0.72	0.980	0.00%
1	1.44	0.970	-1.02%
1	2.16	0.960	-2.04%
1	2.88	0.950	-3.06%
1	3.60	0.930	-5.10%
1	4.32	0.910	-7.14%
1	5.04	0.880	-10.20%
1	5.76	0.830	-15.31%
1	6.48	0.710	-27.55%
1	7.20	0.500	-48.98%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	0.97	0.00%	33.0	0.0
30	0.72	0.96	-1.03%	33.0	0.0
30	1.44	0.95	-2.06%	33.0	0.0
30	2.16	0.95	-2.06%	34.0	1.0
30	2.88	0.93	-4.12%	36.0	3.0
30	3.60	0.92	-5.15%	38.0	5.0
30	4.32	0.90	-7.22%	42.0	9.0
30	5.04	0.87	-10.31%	46.0	13.0
30	5.76	0.81	-16.49%	50.0	17.0
30	6.48	0.65	-32.99%	57.0	24.0
30	7.20	0.33	-65.98%	65.0	32.0



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

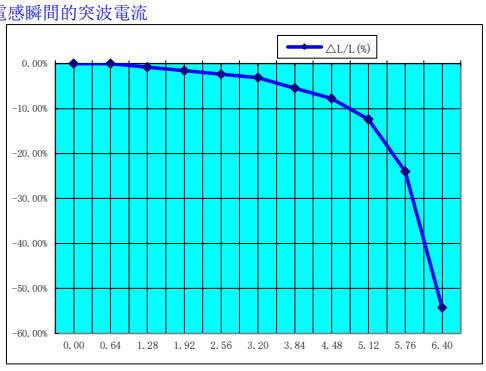
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N：	CKNR4030Z-1R2YC	TEST R.H.	80~85%
PART NO.	CKNR4030Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/5

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION									DIMENSION (Unit：mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	△L/L	Irms A					長 mm	寬 mm	高 mm
SPEC.	1.2 ± 30%	32.5 Max.	5.80 Max.	△L/L≦-30%	2.96 △T≦40℃ ℃				上限 下限	4.2 3.8	4.2 3.8	3.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	1.16	22.3	0.95	-18.10%	OK					4.01	4.00	2.80
2	1.12	22.9	0.98	-12.50%	OK					4.02	4.00	2.79
3	1.15	21.8	0.96	-16.52%	OK					3.98	4.00	2.83
4	1.14	22.8	0.95	-16.67%	OK					3.97	4.02	2.79
5	1.14	23.4	0.96	-15.79%	OK					4.01	4.00	2.80
6	1.17	20.8	0.96	-17.95%	OK					4.01	4.00	2.80
7	1.16	23.8	0.98	-15.52%	OK					4.02	4.00	2.79
8	1.16	24.4	0.95	-18.10%	OK					3.98	4.00	2.83
9	1.14	25.9	0.92	-19.30%	OK					3.97	4.02	2.79
10	1.17	23.7	0.94	-19.66%	OK					4.00	4.00	2.85
AVG.	**1.151**	**23.18**	**0.955**	**-17.01%**						**3.997**	**4.004**	**2.807**
R	**0.05**	**5.1**	**0.06**	**7.16%**						**0.05**	**0.02**	**0.06**

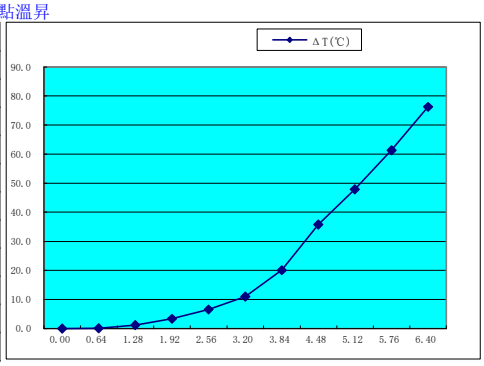
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	1.29	0.00%
1	0.64	1.29	0.00%
1	1.28	1.28	-0.78%
1	1.92	1.27	-1.55%
1	2.56	1.26	-2.33%
1	3.20	1.25	-3.10%
1	3.84	1.22	-5.43%
1	4.48	1.19	-7.75%
1	5.12	1.13	-12.40%
1	5.76	0.98	-24.03%
1	6.40	0.59	-54.26%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	1.27	0.00%	30.7	0.0
30	0.64	1.27	0.00%	30.8	0.1
30	1.28	1.26	-0.79%	31.9	1.2
30	1.92	1.25	-1.57%	34.1	3.4
30	2.56	1.25	-1.57%	37.3	6.6
30	3.20	1.24	-2.36%	41.7	11.0
30	3.84	1.20	-5.51%	50.8	20.1
30	4.48	1.15	-9.45%	66.5	35.8
30	5.12	0.96	-24.41%	78.6	47.9
30	5.76	0.45	-64.57%	92.1	61.4
30	6.40	0.32	-74.80%	107	76.3



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

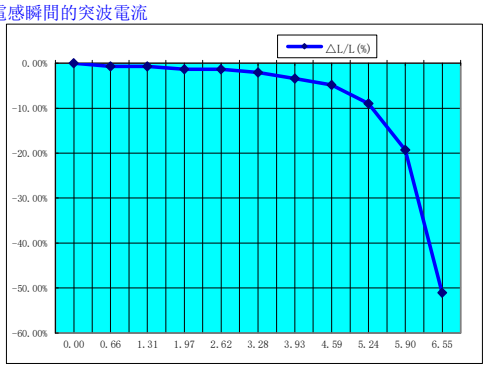
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N：	CKNR4030Z-1R5YC	TEST R.H.	80~85%
PART NO.	CKNR4030Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/5

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%	39 Max.	4.84 Max.	△L/L≦-30%	2.92 △T≦40℃					上限 下限	4.2 3.8	4.2 3.8	3.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V										
1	1.51	27.6	1.44	-4.64%	OK						4.01	4.00	2.80
2	1.53	28.2	1.46	-4.58%	OK						4.02	4.00	2.79
3	1.51	27.5	1.45	-3.97%	OK						3.98	4.00	2.83
4	1.46	29.6	1.40	-4.11%	OK						3.97	4.02	2.79
5	1.44	27.3	1.32	-8.33%	OK						4.01	4.00	2.80
6	1.47	26.7	1.35	-8.16%	OK						4.01	4.00	2.80
7	1.45	26.2	1.40	-3.45%	OK						4.02	4.00	2.79
8	1.46	26.7	1.39	-4.79%	OK						3.98	4.00	2.83
9	1.44	27.4	1.38	-4.17%	OK						3.97	4.02	2.79
10	1.46	30.2	1.40	-4.11%	OK						4.00	4.00	2.85
AVG.	**1.473**	**27.74**	**1.399**	**-5.03%**							**3.997**	**4.004**	**2.807**
R	**0.09**	**4**	**0.14**	**4.89%**							**0.05**	**0.02**	**0.06**

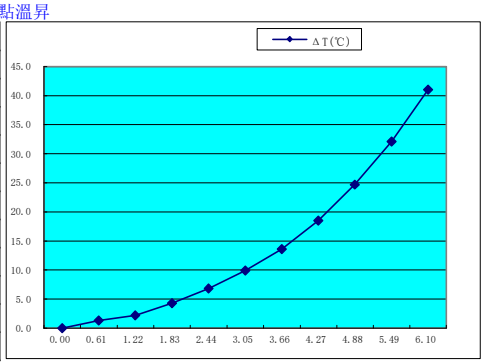
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	1.45	0.00%
1	0.66	1.44	-0.69%
1	1.31	1.44	-0.69%
1	1.97	1.43	-1.38%
1	2.62	1.43	-1.38%
1	3.28	1.42	-2.07%
1	3.93	1.40	-3.45%
1	4.59	1.38	-4.83%
1	5.24	1.32	-8.97%
1	5.90	1.17	-19.31%
1	6.55	0.71	-51.03%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	1.53	0.00%	21.1	0.0
30	0.61	1.53	0.00%	22.4	1.3
30	1.22	1.52	-0.65%	23.3	2.2
30	1.83	1.51	-1.31%	25.4	4.3
30	2.44	1.50	-1.96%	27.9	6.8
30	3.05	1.48	-3.27%	31.0	9.9
30	3.66	1.45	-5.23%	34.7	13.6
30	4.27	1.40	-8.50%	39.6	18.5
30	4.88	1.28	-16.34%	45.8	24.7
30	5.49	0.93	-39.22%	53.2	32.1
30	6.10	0.45	-70.59%	62.1	41.0



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

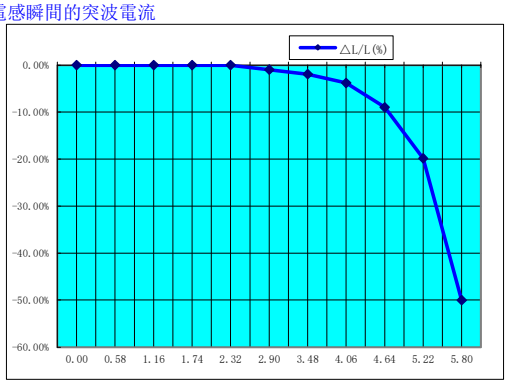
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4030Z-2R2MC	TEST R.H.	80~85%
PART NO.	CKNR4030Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/5

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%	48 Max.	4.90 Max.	△L/L≦-30%	2.57 △T≦40℃ ℃				上限 下限	4.2 3.8	4.2 3.8	3.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	2.15	32.9	1.76	-18.14%	OK					4.02	4.00	2.79
2	2.23	33.8	1.80	-19.28%	OK					3.98	4.00	2.83
3	2.22	33.6	1.80	-18.92%	OK					4.02	4.00	2.79
4	2.20	33.5	1.79	-18.64%	OK					3.98	4.00	2.83
5	2.18	33.1	1.74	-20.18%	OK					3.97	4.02	2.79
6	2.21	33.9	1.74	-21.27%	OK					4.01	4.00	2.80
7	2.20	33.7	1.75	-20.45%	OK					4.01	4.00	2.80
8	2.21	33.9	1.74	-21.27%	OK					3.97	4.02	2.79
9	2.21	33.5	1.73	-21.72%	OK					4.01	4.00	2.80
10	2.25	34.0	1.80	-20.00%	OK					4.01	4.00	2.80
AVG.	**2.206**	**33.59**	**1.765**	**-19.99%**						**3.998**	**4.004**	**2.802**
R	**0.1**	**1.1**	**0.07**	**3.58%**						**0.05**	**0.02**	**0.04**

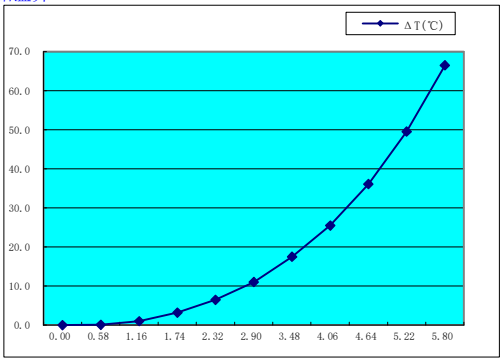
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	2.12	0.00%
1	0.58	2.12	0.00%
1	1.16	2.12	0.00%
1	1.74	2.12	0.00%
1	2.32	2.12	0.00%
1	2.90	2.10	-0.94%
1	3.48	2.08	-1.89%
1	4.06	2.04	-3.77%
1	4.64	1.93	-8.96%
1	5.22	1.70	-19.81%
1	5.80	1.06	-50.00%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	2.08	0.00%	20.7	0.0
30	0.58	2.08	0.00%	20.8	0.1
30	1.16	2.07	-0.48%	21.7	1.0
30	1.74	2.07	-0.48%	23.9	3.2
30	2.32	2.06	-0.96%	27.2	6.5
30	2.90	2.06	-0.96%	31.7	11.0
30	3.48	2.05	-1.44%	38.2	17.5
30	4.06	2.00	-3.85%	46.2	25.5
30	4.64	1.85	-11.06%	56.8	36.1
30	5.22	1.20	-42.31%	70.2	49.5
30	5.80	0.59	-71.63%	87.2	66.5



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

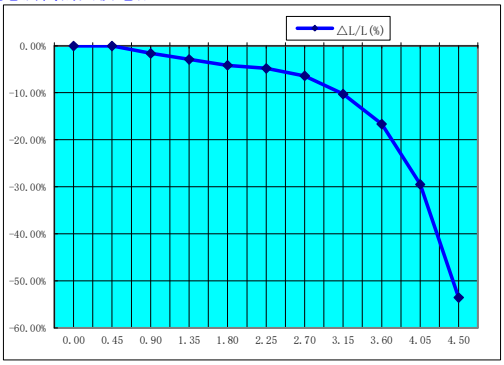
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4030Z-3R3MC	TEST R.H.	80~85%
PART NO.	CKNR4030Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/5

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%	65 Max.	3.30 Max.	△L/L≦-30%	2.40 △T≦40℃ ℃		上限 下限	4.2 3.8	4.2 3.8	3.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	3.09	45.5	2.63	-14.9%	OK			4.02	4.00	2.79
2	3.26	46.5	2.53	-22.4%	OK			3.98	4.00	2.83
3	3.16	47.4	2.56	-19.0%	OK			4.02	4.00	2.79
4	3.25	45.7	2.57	-20.9%	OK			3.98	4.00	2.83
5	3.21	44.3	2.50	-22.1%	OK			3.97	4.02	2.79
6	3.20	45.0	2.60	-18.8%	OK			4.01	4.00	2.80
7	3.27	44.4	2.64	-19.3%	OK			4.01	4.00	2.80
8	3.25	44.5	2.61	-19.7%	OK			3.97	4.02	2.79
9	3.26	45.4	2.65	-18.7%	OK			4.01	4.00	2.80
10	3.27	46.1	2.50	-23.5%	OK			4.01	4.00	2.80
AVG.	**3.222**	**45.48**	**2.579**	**-19.93%**				**3.998**	**4.004**	**2.802**
R	**0.18**	**3.1**	**0.15**	**8.66%**				**0.05**	**0.02**	**0.04**

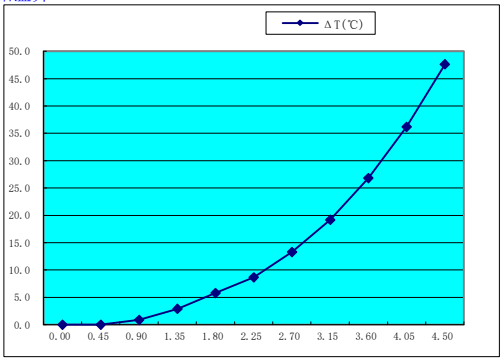
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	3.12	0.00%
1	0.45	3.12	0.00%
1	0.90	3.07	-1.60%
1	1.35	3.03	-2.88%
1	1.80	2.99	-4.17%
1	2.25	2.97	-4.81%
1	2.70	2.92	-6.41%
1	3.15	2.80	-10.26%
1	3.60	2.60	-16.67%
1	4.05	2.20	-29.49%
1	4.50	1.45	-53.53%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	3.03	0.00%	30.3	0.0
30	0.45	3.00	-0.99%	30.3	0.0
30	0.90	2.96	-2.31%	31.2	0.9
30	1.35	2.92	-3.63%	33.2	2.9
30	1.80	2.87	-5.28%	36.1	5.8
30	2.25	2.85	-5.94%	39.0	8.7
30	2.70	2.78	-8.25%	43.6	13.3
30	3.15	2.68	-11.55%	49.5	19.2
30	3.60	2.39	-21.12%	57.1	26.8
30	4.05	1.52	-49.83%	66.5	36.2
30	4.50	0.69	-77.23%	77.9	47.6



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

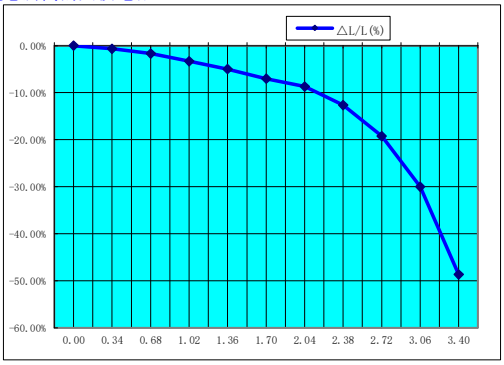
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4030Z-4R7MC	TEST R.H.	80~85%
PART NO.	CKNR4030Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/5

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%	78 Max.	2.90 Max.	△L/L≦-30%	2.00 △T≦40℃ ℃		上限 下限	4.2 3.8	4.2 3.8	3.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	4.50	62.2	3.70	-17.78%	OK			4.02	4.00	2.79
2	4.43	61.0	3.74	-15.58%	OK			3.98	4.00	2.83
3	4.41	61.1	3.74	-15.19%	OK			4.02	4.00	2.79
4	4.39	62.2	3.74	-14.81%	OK			3.98	4.00	2.83
5	4.38	62.2	3.74	-14.61%	OK			3.97	4.02	2.79
6	4.34	62.1	3.72	-14.29%	OK			4.01	4.00	2.80
7	4.30	62.0	3.68	-14.42%	OK			4.01	4.00	2.80
8	4.43	61.3	3.65	-17.61%	OK			3.97	4.02	2.79
9	4.32	62.5	3.58	-17.13%	OK			4.01	4.00	2.80
10	4.38	61.6	3.52	-19.63%	OK			4.01	4.00	2.80
AVG.	**4.388**	**61.82**	**3.681**	**-16.10%**				**3.998**	**4.004**	**2.802**
R	**0.2**	**1.5**	**0.22**	**5.35%**				**0.05**	**0.02**	**0.04**

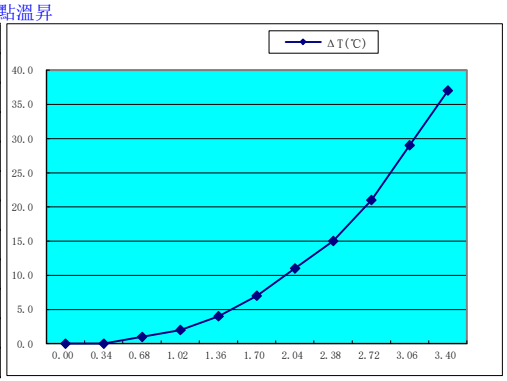
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	4.83	0.00%
1	0.34	4.80	-0.62%
1	0.68	4.75	-1.66%
1	1.02	4.67	-3.31%
1	1.36	4.59	-4.97%
1	1.70	4.49	-7.04%
1	2.04	4.41	-8.70%
1	2.38	4.22	-12.63%
1	2.72	3.90	-19.25%
1	3.06	3.38	-30.02%
1	3.40	2.48	-48.65%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	4.66	0.00%	29.0	0.0
30	0.34	4.63	-0.64%	29.0	0.0
30	0.68	4.58	-1.72%	30.0	1.0
30	1.02	4.50	-3.43%	31.0	2.0
30	1.36	4.41	-5.36%	33.0	4.0
30	1.70	4.31	-7.51%	36.0	7.0
30	2.04	4.24	-9.01%	40.0	11.0
30	2.38	4.02	-13.73%	44.0	15.0
30	2.72	3.61	-22.53%	50.0	21.0
30	3.06	2.83	-39.27%	58.0	29.0
30	3.40	1.61	-65.45%	66.0	37.0



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

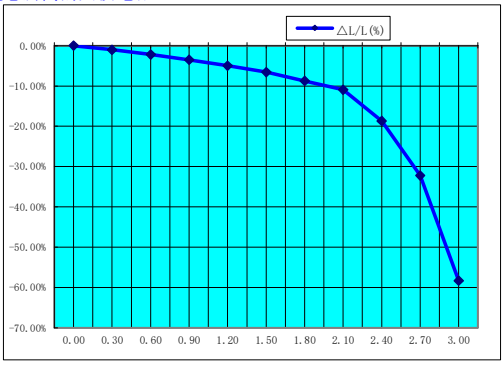
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4030Z-6R8MC	TEST R.H.	80~85%
PART NO.	CKNR4030Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/5

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%	117 Max.	2.40 Max.	△L/L≦-30%	1.60 △T≦40℃ ℃	上限 下限	4.2 3.8	4.2 3.8	3.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V						
1	6.53	90.8	5.62	-13.94%	OK		4.02	4.00	2.79
2	6.49	89.2	5.56	-14.33%	OK		3.98	4.00	2.83
3	6.68	85.2	5.52	-17.37%	OK		4.02	4.00	2.79
4	6.55	90.3	5.46	-16.64%	OK		3.98	4.00	2.83
5	6.39	91.3	5.64	-11.74%	OK		3.97	4.02	2.79
6	6.48	87.6	5.61	-13.43%	OK		4.01	4.00	2.80
7	6.52	93.6	5.58	-14.42%	OK		4.01	4.00	2.80
8	6.51	89.0	5.58	-14.29%	OK		3.97	4.02	2.79
9	6.55	88.3	5.57	-14.96%	OK		4.01	4.00	2.80
10	6.48	86.5	5.49	-15.28%	OK		4.01	4.00	2.80
AVG.	**6.518**	**89.18**	**5.563**	**-14.64%**			**3.998**	**4.004**	**2.802**
R	**0.29**	**8.4**	**0.18**	**5.63%**			**0.05**	**0.02**	**0.04**

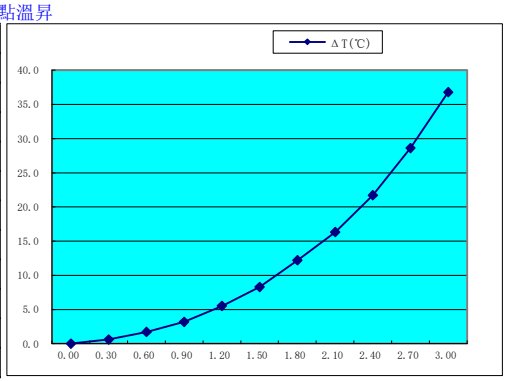
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	6.86	0.00%
1	0.30	6.79	-1.02%
1	0.60	6.71	-2.19%
1	0.90	6.62	-3.50%
1	1.20	6.52	-4.96%
1	1.50	6.41	-6.56%
1	1.80	6.26	-8.75%
1	2.10	6.11	-10.93%
1	2.40	5.58	-18.66%
1	2.70	4.65	-32.22%
1	3.00	2.86	-58.31%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	6.48	0.00%	29.9	0.0
30	0.30	6.47	-0.15%	30.5	0.6
30	0.60	6.42	-0.93%	31.6	1.7
30	0.90	6.36	-1.85%	33.1	3.2
30	1.20	6.29	-2.93%	35.4	5.5
30	1.50	6.21	-4.17%	38.2	8.3
30	1.80	6.11	-5.71%	42.1	12.2
30	2.10	5.97	-7.87%	46.2	16.3
30	2.40	5.57	-14.04%	51.6	21.7
30	2.70	4.66	-28.09%	58.5	28.6
30	3.00	2.43	-62.50%	66.7	36.8



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

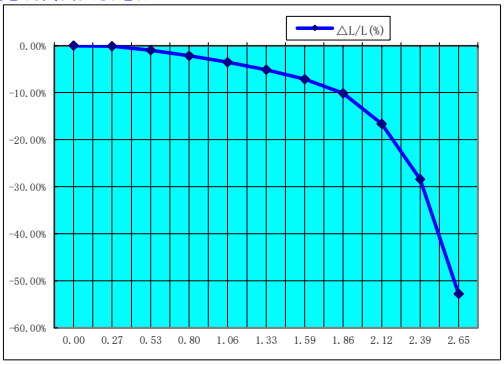
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4030Z-100MC	TEST R.H.	80~85%
PART NO.	CKNR4030Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/5

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%	156 Max.	1.9 Max.	△L/L≦-30%	1.50 △T≦40℃	上限 下限	4.2 3.8	4.2 3.8	3.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V						
1	9.63	125	8.00	-16.93%	OK		4.02	4.00	2.79
2	9.66	115	8.02	-16.98%	OK		3.98	4.00	2.83
3	9.80	126	7.89	-19.49%	OK		4.02	4.00	2.79
4	9.72	129	7.98	-17.90%	OK		3.98	4.00	2.83
5	9.90	127	7.90	-20.20%	OK		3.97	4.02	2.79
6	9.38	120	7.85	-16.31%	OK		4.01	4.00	2.80
7	9.63	123	8.01	-16.82%	OK		4.01	4.00	2.80
8	9.60	127	8.00	-16.67%	OK		3.97	4.02	2.79
9	10.0	112	8.02	-19.80%	OK		4.01	4.00	2.80
10	9.98	117	7.98	-20.04%	OK		4.01	4.00	2.80
AVG.	**9.730**	**122.1**	**7.965**	**-18.11%**			**3.998**	**4.004**	**2.802**
R	**0.62**	**17**	**0.17**	**3.89%**			**0.05**	**0.02**	**0.04**

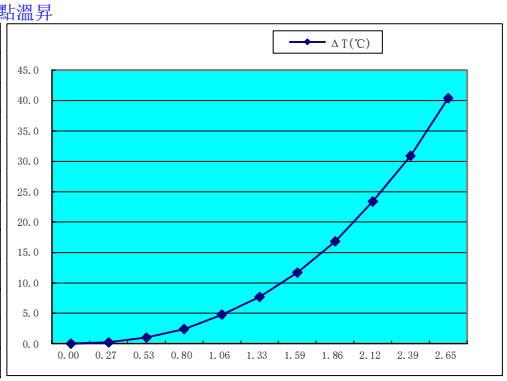
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	9.39	0.00%
1	0.27	9.38	-0.11%
1	0.53	9.30	-0.96%
1	0.80	9.19	-2.13%
1	1.06	9.06	-3.51%
1	1.33	8.91	-5.11%
1	1.59	8.72	-7.14%
1	1.86	8.44	-10.12%
1	2.12	7.83	-16.61%
1	2.39	6.72	-28.43%
1	2.65	4.43	-52.82%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	9.25	0.00%	20.9	0.0
30	0.27	9.25	0.00%	21.1	0.2
30	0.53	9.18	-0.76%	21.9	1.0
30	0.80	9.05	-2.16%	23.3	2.4
30	1.06	8.91	-3.68%	25.7	4.8
30	1.33	8.75	-5.41%	28.6	7.7
30	1.59	8.55	-7.57%	32.6	11.7
30	1.86	8.21	-11.24%	37.7	16.8
30	2.12	7.41	-19.89%	44.3	23.4
30	2.39	5.67	-38.70%	51.8	30.9
30	2.65	2.57	-72.22%	61.3	40.4



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

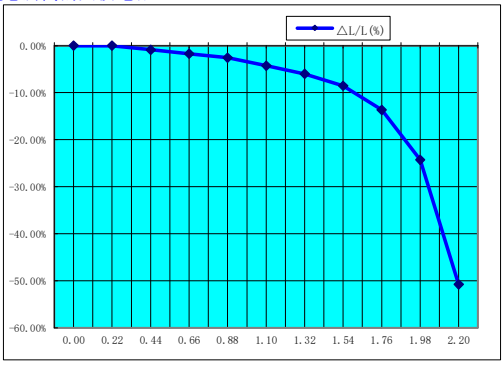
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4030Z-120MC	TEST R.H.	80~85%
PART NO.	CKNR4030Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/5

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.	12.0 ± 20%	175.5 Max.	1.7 Max.	△L/L≦-30%	1.30 △T≦40℃ ℃		上限 下限	4.2 3.8	4.2 3.8	3.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	11.8	144	9.80	-16.95%	OK			4.02	4.00	2.79
2	11.9	146	9.78	-17.82%	OK			3.98	4.00	2.83
3	11.6	142	9.80	-15.52%	OK			4.02	4.00	2.79
4	11.8	143	9.52	-19.32%	OK			3.98	4.00	2.83
5	11.8	142	9.54	-19.15%	OK			3.97	4.02	2.79
6	11.9	143	9.83	-17.39%	OK			4.01	4.00	2.80
7	11.7	144	9.45	-19.23%	OK			4.01	4.00	2.80
8	11.6	142	9.58	-17.41%	OK			3.97	4.02	2.79
9	12.0	143	9.52	-20.67%	OK			4.01	4.00	2.80
10	11.7	144	9.46	-19.15%	OK			4.01	4.00	2.80
AVG.	**11.780**	**143.3**	**9.628**	**-18.26%**				**3.998**	**4.004**	**2.802**
R	**0.4**	**4**	**0.38**	**5.15%**				**0.05**	**0.02**	**0.04**

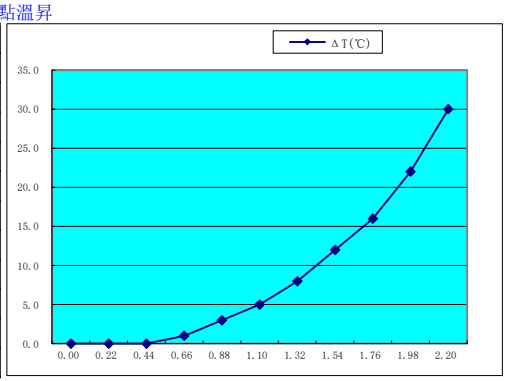
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	11.7	0.00%
1	0.22	11.7	0.00%
1	0.44	11.6	-0.85%
1	0.66	11.5	-1.71%
1	0.88	11.4	-2.56%
1	1.10	11.2	-4.27%
1	1.32	11.0	-5.98%
1	1.54	10.7	-8.55%
1	1.76	10.1	-13.68%
1	1.98	8.86	-24.27%
1	2.20	5.76	-50.77%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	11.2	0.00%	31.0	0.0
30	0.22	11.1	-0.89%	31.0	0.0
30	0.44	11.1	-0.89%	31.0	0.0
30	0.66	11.0	-1.79%	32.0	1.0
30	0.88	10.8	-3.57%	34.0	3.0
30	1.10	10.7	-4.46%	36.0	5.0
30	1.32	10.5	-6.25%	39.0	8.0
30	1.54	10.1	-9.82%	43.0	12.0
30	1.76	9.43	-15.80%	47.0	16.0
30	1.98	7.57	-32.41%	53.0	22.0
30	2.20	3.62	-67.68%	61.0	30.0



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

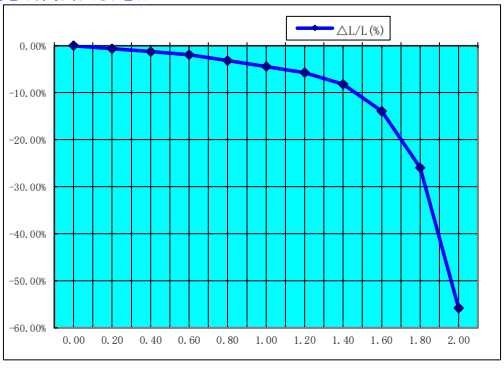
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4030Z-150MC	TEST R.H.	80~85%
PART NO.	CKNR4030Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/5

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%	280 Max.	1.65 Max.	△L/L≦-30%	1.11 △T≦40℃ ℃		上限 下限	4.2 3.8	4.2 3.8	3.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	14.9	213	12.0	-19.46%	OK			4.02	4.00	2.79
2	14.9	211	11.8	-20.81%	OK			3.98	4.00	2.83
3	14.9	217	12.0	-19.46%	OK			4.02	4.00	2.79
4	15.3	218	11.8	-22.88%	OK			3.98	4.00	2.83
5	15.0	219	11.9	-20.67%	OK			3.97	4.02	2.79
6	15.1	215	12.0	-20.53%	OK			4.01	4.00	2.80
7	14.4	220	12.0	-16.67%	OK			4.01	4.00	2.80
8	14.8	214	12.1	-18.24%	OK			3.97	4.02	2.79
9	14.8	215	11.9	-19.59%	OK			4.01	4.00	2.80
10	14.9	214	11.7	-21.48%	OK			4.01	4.00	2.80
AVG.	**14.900**	**215.6**	**11.92**	**-19.98%**				**3.998**	**4.004**	**2.802**
R	**0.9**	**9**	**0.4**	**6.21%**				**0.05**	**0.02**	**0.04**

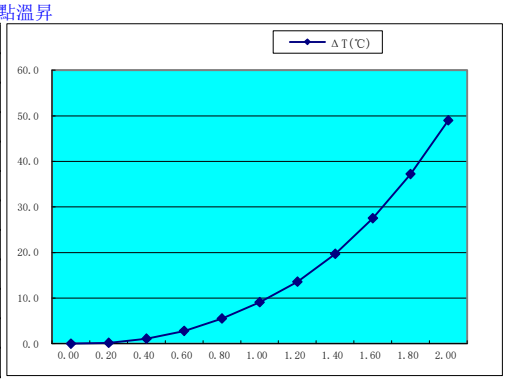
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	15.8	0.00%
1	0.20	15.7	-0.63%
1	0.40	15.6	-1.27%
1	0.60	15.5	-1.90%
1	0.80	15.3	-3.16%
1	1.00	15.1	-4.43%
1	1.20	14.9	-5.70%
1	1.40	14.5	-8.23%
1	1.60	13.6	-13.92%
1	1.80	11.7	-25.95%
1	2.00	6.98	-55.82%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	15.0	0.00%	28.9	0.0
30	0.20	15.0	0.00%	29.1	0.2
30	0.40	14.9	-0.67%	30.0	1.1
30	0.60	14.7	-2.00%	31.7	2.8
30	0.80	14.6	-2.67%	34.4	5.5
30	1.00	14.4	-4.00%	38.0	9.1
30	1.20	14.2	-5.33%	42.5	13.6
30	1.40	13.9	-7.33%	48.6	19.7
30	1.60	13.1	-12.67%	56.4	27.5
30	1.80	10.7	-28.67%	66.1	37.2
30	2.00	4.93	-67.13%	77.9	49.0



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

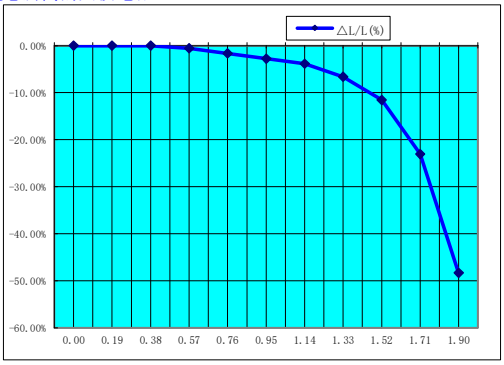
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4030Z-180MC	TEST R.H.	80~85%
PART NO.	CKNR4030Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/5

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.	18.0 ± 20%	293 Max.	1.4 Max.	△L/L≦-30%	1.10 △T≦40℃ ℃	上限 下限	4.2 3.8	4.2 3.8	3.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V						
1	17.2	248	13.9	-19.19%	OK		4.02	4.00	2.79
2	17.2	249	14.2	-17.44%	OK		3.98	4.00	2.83
3	17.2	244	14.0	-18.60%	OK		4.02	4.00	2.79
4	17.2	246	14.2	-17.44%	OK		3.98	4.00	2.83
5	17.0	245	13.8	-18.82%	OK		3.97	4.02	2.79
6	17.2	248	13.9	-19.19%	OK		4.01	4.00	2.80
7	17.1	245	14.2	-16.96%	OK		4.01	4.00	2.80
8	17.3	248	14.2	-17.92%	OK		3.97	4.02	2.79
9	17.2	249	14.1	-18.02%	OK		4.01	4.00	2.80
10	17.0	248	14.0	-17.65%	OK		4.01	4.00	2.80
AVG.	**17.160**	**247**	**14.05**	**-18.12%**			**3.998**	**4.004**	**2.802**
R	**0.3**	**5**	**0.4**	**2.23%**			**0.05**	**0.02**	**0.04**

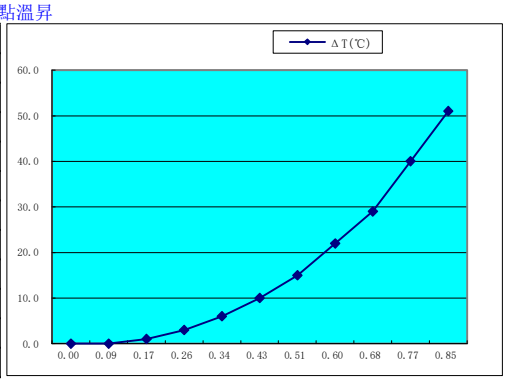
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	18.2	0.00%
1	0.19	18.2	0.00%
1	0.38	18.2	0.00%
1	0.57	18.1	-0.55%
1	0.76	17.9	-1.65%
1	0.95	17.7	-2.75%
1	1.14	17.5	-3.85%
1	1.33	17.0	-6.59%
1	1.52	16.1	-11.54%
1	1.71	14.0	-23.08%
1	1.90	9.40	-48.35%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	17.1	0.00%	33.0	0.0
30	0.09	17.0	-0.58%	33.0	0.0
30	0.17	17.0	-0.58%	34.0	1.0
30	0.26	17.0	-0.58%	36.0	3.0
30	0.34	16.8	-1.75%	39.0	6.0
30	0.43	16.7	-2.34%	43.0	10.0
30	0.51	16.4	-4.09%	48.0	15.0
30	0.60	15.8	-7.60%	55.0	22.0
30	0.68	14.1	-17.54%	62.0	29.0
30	0.77	9.19	-46.26%	73.0	40.0
30	0.85	4.53	-73.51%	84.0	51.0



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

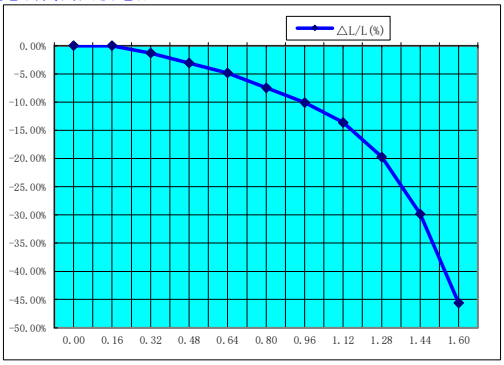
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4030Z-220MC	TEST R.H.	80~85%
PART NO.	CKNR4030Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/5

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION							DIMENSION (Unit：mm)		
MEAS. ITEM	L μh	DCR mΩ	Isat A	△L/L	Irms A		長 mm	寬 mm	高 mm
SPEC.	22.0 ± 20%	293 Max.	1.3 Max.	△L/L≦-30%	1.00 △T≦40℃	上限 下限	4.2 3.8	4.2 3.8	3.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V						
1	20.4	242	17.2	-15.69%	OK		4.02	4.00	2.79
2	20.5	252	17.6	-14.15%	OK		3.98	4.00	2.83
3	20.4	247	17.6	-13.73%	OK		4.02	4.00	2.79
4	20.2	243	17.2	-14.85%	OK		3.98	4.00	2.83
5	20.2	242	17.0	-15.84%	OK		3.97	4.02	2.79
6	20.7	248	17.2	-16.91%	OK		4.01	4.00	2.80
7	19.7	243	16.5	-16.24%	OK		4.01	4.00	2.80
8	20.5	244	16.0	-21.95%	OK		3.97	4.02	2.79
9	20.6	241	16.9	-17.96%	OK		4.01	4.00	2.80
10	20.6	242	17.5	-15.05%	OK		4.01	4.00	2.80
AVG.	**20.380**	**244.4**	**17.07**	**-16.24%**			**3.998**	**4.004**	**2.802**
R	**1**	**11**	**1.6**	**8.23%**			**0.05**	**0.02**	**0.04**

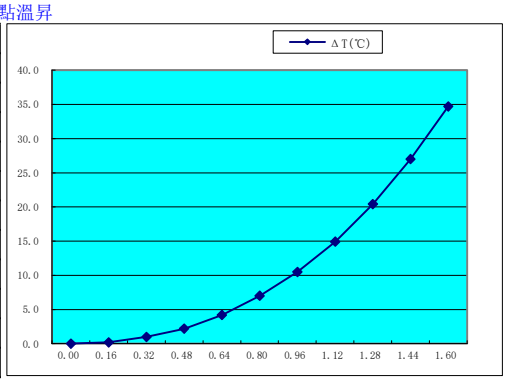
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	22.8	0.00%
1	0.16	22.8	0.00%
1	0.32	22.5	-1.32%
1	0.48	22.1	-3.07%
1	0.64	21.7	-4.82%
1	0.80	21.1	-7.46%
1	0.96	20.5	-10.09%
1	1.12	19.7	-13.60%
1	1.28	18.3	-19.74%
1	1.44	16.0	-29.82%
1	1.60	12.4	-45.61%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	22.2	0.00%	24.1	0.0
30	0.16	22.0	-0.90%	24.3	0.2
30	0.32	21.9	-1.35%	25.1	1.0
30	0.48	21.5	-3.15%	26.3	2.2
30	0.64	21.0	-5.41%	28.3	4.2
30	0.80	20.5	-7.66%	31.1	7.0
30	0.96	19.9	-10.36%	34.6	10.5
30	1.12	19.0	-14.41%	39.0	14.9
30	1.28	17.2	-22.52%	44.5	20.4
30	1.44	13.9	-37.39%	51.1	27.0
30	1.60	7.97	-64.10%	58.8	34.7



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

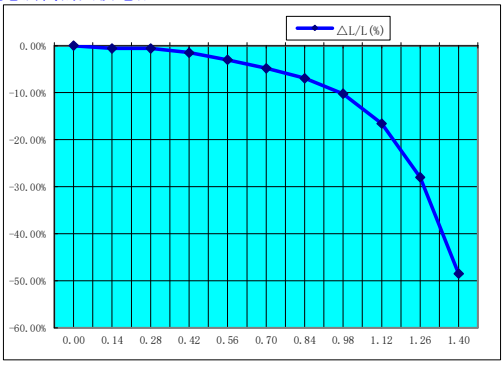
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4030Z-330MC	TEST R.H.	80~85%
PART NO.	CKNR4030Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/5

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION							DIMENSION (Unit：mm)		
MEAS. ITEM	L μh	DCR mΩ	Isat A	△L/L	Irms A		長 mm	寬 mm	高 mm
SPEC.	33.0 ± 20%	480 Max.	1.1 Max.	△L/L≦-30%	0.84 △T≦40℃	上限 下限	4.2 3.8	4.2 3.8	3.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V						
1	30.3	392	25.9	-14.52%	OK		4.02	4.00	2.79
2	30.8	394	26.0	-15.58%	OK		3.98	4.00	2.83
3	32.1	390	25.8	-19.63%	OK		4.02	4.00	2.79
4	31.6	389	26.1	-17.41%	OK		3.98	4.00	2.83
5	32.1	400	26.2	-18.38%	OK		3.97	4.02	2.79
6	32.0	401	25.4	-20.63%	OK		4.01	4.00	2.80
7	31.6	390	25.8	-18.35%	OK		4.01	4.00	2.80
8	31.8	391	25.8	-18.87%	OK		3.97	4.02	2.79
9	31.0	396	25.3	-18.39%	OK		4.01	4.00	2.80
10	30.0	404	25.0	-16.67%	OK		4.01	4.00	2.80
AVG.	**31.330**	**394.7**	**25.73**	**-17.84%**			**3.998**	**4.004**	**2.802**
R	**2.1**	**15**	**1.2**	**6.10%**			**0.05**	**0.02**	**0.04**

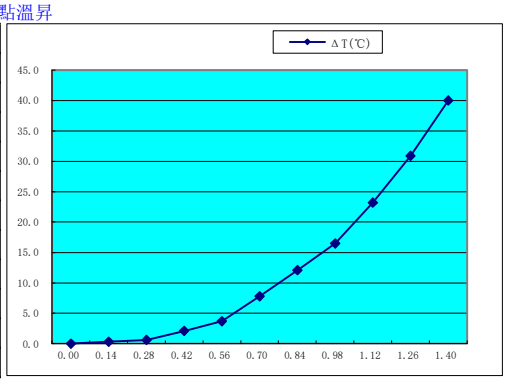
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	33.2	0.00%
1	0.14	33.0	-0.60%
1	0.28	33.0	-0.60%
1	0.42	32.7	-1.51%
1	0.56	32.2	-3.01%
1	0.70	31.6	-4.82%
1	0.84	30.9	-6.93%
1	0.98	29.8	-10.24%
1	1.12	27.7	-16.57%
1	1.26	23.9	-28.01%
1	1.40	17.1	-48.49%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	28.9	0.00%	28.0	0.0
30	0.14	29.0	0.35%	28.3	0.3
30	0.28	28.8	-0.35%	28.6	0.6
30	0.42	28.6	-1.04%	30.1	2.1
30	0.56	28.3	-2.08%	31.7	3.7
30	0.70	27.9	-3.46%	35.8	7.8
30	0.84	27.3	-5.54%	40.1	12.1
30	0.98	26.3	-9.00%	44.5	16.5
30	1.12	23.6	-18.34%	51.2	23.2
30	1.26	16.0	-44.64%	58.9	30.9
30	1.40	7.76	-73.15%	68.0	40.0



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

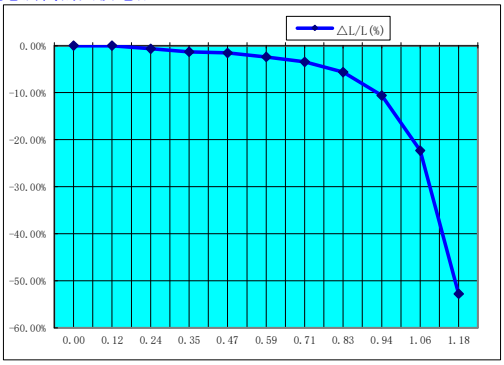
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4030Z-470MC	TEST R.H.	80~85%
PART NO.	CKNR4030Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/5

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION							DIMENSION (Unit：mm)		
MEAS. ITEM	L μh	DCR mΩ	Isat A	△L/L	Irms A		長 mm	寬 mm	高 mm
SPEC.	47.0 ± 20%	845 Max.	0.95 Max.	△L/L≦-30%	0.72 △T≦40℃	上限 下限	4.2 3.8	4.2 3.8	3.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V						
1	45.3	678	40.2	-11.26%	OK		4.02	4.00	2.79
2	44.9	684	40.0	-10.91%	OK		3.98	4.00	2.83
3	45.2	689	40.1	-11.34%	OK		4.02	4.00	2.79
4	44.9	694	39.9	-11.14%	OK		3.98	4.00	2.83
5	44.5	693	39.8	-10.56%	OK		3.97	4.02	2.79
6	45.3	687	40.3	-11.04%	OK		4.01	4.00	2.80
7	45.4	690	40.2	-11.45%	OK		4.01	4.00	2.80
8	44.9	686	40.0	-10.91%	OK		3.97	4.02	2.79
9	44.3	688	39.2	-11.51%	OK		4.01	4.00	2.80
10	45.7	681	40.0	-12.47%	OK		4.01	4.00	2.80
AVG.	**45.043**	**687**	**39.97**	**-11.26%**			**3.998**	**4.004**	**2.802**
R	**1.4**	**16**	**1.1**	**1.91%**			**0.05**	**0.02**	**0.04**

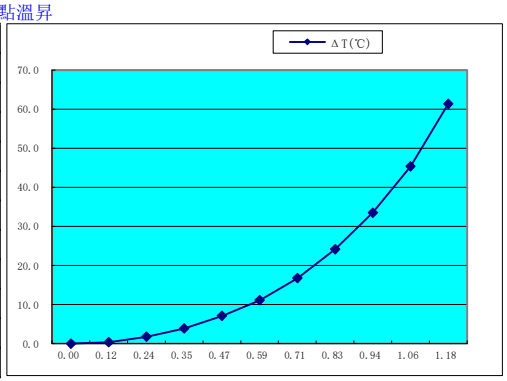
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	46.2	0.00%
1	0.12	46.2	0.00%
1	0.24	45.9	-0.65%
1	0.35	45.6	-1.30%
1	0.47	45.5	-1.52%
1	0.59	45.1	-2.38%
1	0.71	44.6	-3.46%
1	0.83	43.6	-5.63%
1	0.94	41.3	-10.61%
1	1.06	35.9	-22.29%
1	1.18	21.8	-52.81%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	44.5	0.00%	29.2	0.0
30	0.12	44.6	0.22%	29.6	0.4
30	0.24	44.4	-0.22%	31.0	1.8
30	0.35	44.4	-0.22%	33.1	3.9
30	0.47	44.1	-0.90%	36.3	7.1
30	0.59	43.8	-1.57%	40.3	11.1
30	0.71	43.2	-2.92%	46.0	16.8
30	0.83	42.1	-5.39%	53.4	24.2
30	0.94	38.9	-12.58%	62.7	33.5
30	1.06	27.5	-38.20%	74.6	45.4
30	1.18	11.0	-75.28%	90.6	61.4



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

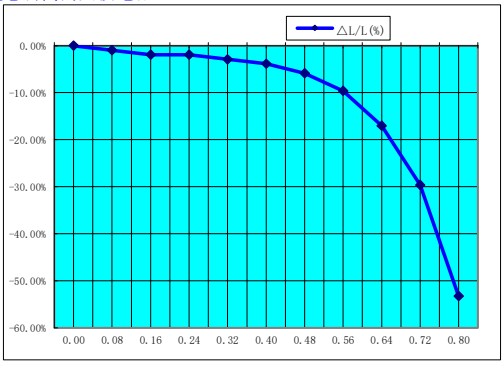
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4030Z-101MC	TEST R.H.	80~85%
PART NO.	CKNR4030Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/5

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.	100.0 ± 20%	1495 Max.	0.6 Max.	△L/L≦-30%	0.45 △T≦40℃ ℃		上限 下限	4.2 3.8	4.2 3.8	3.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	106	1230	89.8	-15.28%	OK			4.02	4.00	2.79
2	104	1240	89.0	-14.42%	OK			3.98	4.00	2.83
3	105	1230	89.5	-14.76%	OK			4.02	4.00	2.79
4	104	1220	88.0	-15.38%	OK			3.98	4.00	2.83
5	106	1220	88.2	-16.79%	OK			3.97	4.02	2.79
6	106	1230	88.6	-16.42%	OK			4.01	4.00	2.80
7	105	1230	89.1	-15.14%	OK			4.01	4.00	2.80
8	103	1240	88.0	-14.56%	OK			3.97	4.02	2.79
9	108	1220	88.1	-18.43%	OK			4.01	4.00	2.80
10	106	1230	88.5	-16.51%	OK			4.01	4.00	2.80
AVG.	**105.300**	**1229**	**88.68**	**-15.77%**				**3.998**	**4.004**	**2.802**
R	**5**	**20**	**1.8**	**4.00%**				**0.05**	**0.02**	**0.04**

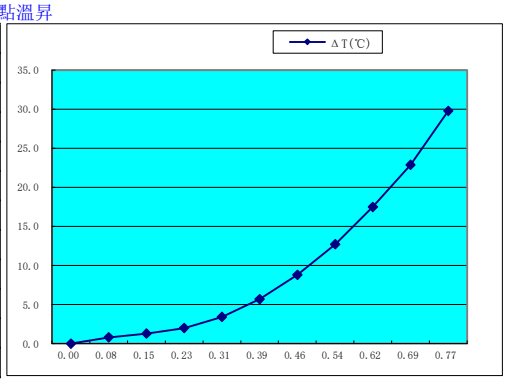
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	104	0.00%
1	0.08	103	-0.96%
1	0.16	102	-1.92%
1	0.24	102	-1.92%
1	0.32	101	-2.88%
1	0.40	100	-3.85%
1	0.48	97.9	-5.87%
1	0.56	94.0	-9.62%
1	0.64	86.3	-17.02%
1	0.72	73.2	-29.62%
1	0.80	48.6	-53.27%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	104	0.00%	28.0	0.0
30	0.08	102	-1.92%	28.8	0.8
30	0.15	101	-2.88%	29.3	1.3
30	0.23	101	-2.88%	30.0	2.0
30	0.31	100	-3.85%	31.4	3.4
30	0.39	98.4	-5.38%	33.7	5.7
30	0.46	95.0	-8.65%	36.8	8.8
30	0.54	91.5	-12.02%	40.7	12.7
30	0.62	82.8	-20.38%	45.5	17.5
30	0.69	64.5	-37.98%	50.9	22.9
30	0.77	34.9	-66.44%	57.8	29.8



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

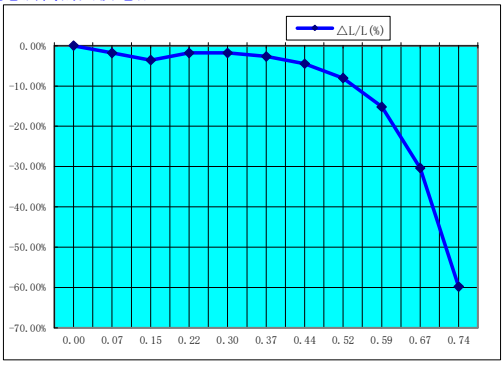
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4030Z-121MC	TEST R.H.	80~85%
PART NO.	CKNR4030Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/3/5

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.	120.0 ± 20%	1755 Max.	0.55 Max.	△L/L≦-30%	0.42 △T≦40℃ ℃	上限 下限	4.2 3.8	4.2 3.8	3.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V						
1	107	1520	92.7	-13.36%	OK		4.02	4.00	2.79
2	110	1500	91.2	-17.09%	OK		3.98	4.00	2.83
3	113	1530	91.5	-19.03%	OK		4.02	4.00	2.79
4	112	1540	91.3	-18.48%	OK		3.98	4.00	2.83
5	116	1550	92.1	-20.60%	OK		3.97	4.02	2.79
6	117	1520	92.0	-21.37%	OK		4.01	4.00	2.80
7	112	1540	91.6	-18.21%	OK		4.01	4.00	2.80
8	114	1530	91.8	-19.47%	OK		3.97	4.02	2.79
9	112	1520	93.0	-16.96%	OK		4.01	4.00	2.80
10	112	1560	92.6	-17.32%	OK		4.01	4.00	2.80
AVG.	**112.500**	**1531**	**91.98**	**-18.19%**			**3.998**	**4.004**	**2.802**
R	**10**	**60**	**1.8**	**8.00%**			**0.05**	**0.02**	**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	112	0.00%
1	0.07	110	-1.79%
1	0.15	108	-3.57%
1	0.22	110	-1.79%
1	0.30	110	-1.79%
1	0.37	109	-2.68%
1	0.44	107	-4.46%
1	0.52	103	-8.04%
1	0.59	95.0	-15.18%
1	0.67	78.0	-30.36%
1	0.74	45.0	-59.82%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	115	0.00%	34.0	0.0
30	0.07	112	-2.61%	34.0	0.0
30	0.14	111	-3.48%	35.0	1.0
30	0.21	114	-0.87%	36.0	2.0
30	0.28	113	-1.74%	39.0	5.0
30	0.36	112	-2.61%	42.0	8.0
30	0.43	110	-4.35%	46.0	12.0
30	0.50	106	-7.83%	51.0	17.0
30	0.57	96.0	-16.52%	57.0	23.0
30	0.64	72.0	-37.39%	64.0	30.0
30	0.71	29.0	-74.78%	74.0	40.0

