承　　认　　书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	13/Feb/2025	REVISION NO.	A
PART NO.	CKNR4018Z Series		
DRAWN NO.			
DESCRIPTION.	SMD POWER INDUCTOR		
Customer's Signature			

Approved by	Checked by	Drawn by
梁智坤	黄大燕	林树英
13/Feb/2025	13/Feb/2025	13/Feb/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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GUANG DONG CHK ELECTRONIC TECH Co., Ltd

ECN HISTORY LIST

REV	DATE	DESCRIPTION	CHECK	APPROVED
A	2025/2/13	新作成	林树英	黄大燕

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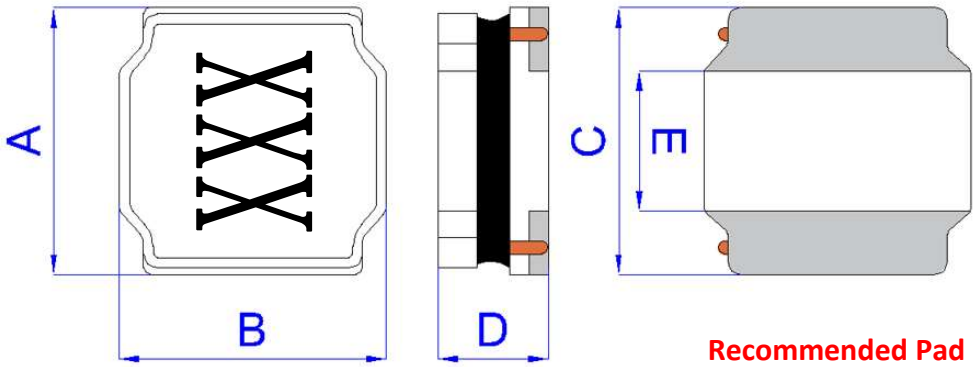
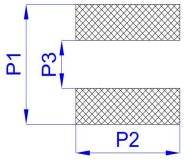
CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 1/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR4018Z Series	DATE	2025/2/13

1.SHAPE & DIMENSION

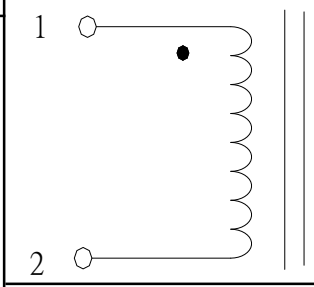
UNIT: mm



Recommended Pad



SCHEMATICS



MARKING COLOR

Black

A	B	C	D	E	P1	P2	P3
4	4	4	1.8	1.6	4	3.7	1.6
±0.2	±0.2	±0.2	MAX	±0.3	Ref.	Ref.	Ref.

CK NR 4018 Z - 2R2 M C

1 2 3 4 5 6 7

1 **CHK PRODUCTION (今凯制造)**

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

3 **DIMENSIONS （尺寸规格）**

4 **MAERTIAL TYPE （材料类型）**

5 **INDUCTANCE （电感量）**

6 **TOLERANCE （公差）** M:±20% N:±25% Y:±30%

7 **PACKAGING （包装方式）** C - 编带盘装 B - 盒装

APPROVED BY	CHECKED BY	DRAFT BY
梁智坤	黄大燕	林树英

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CUSTOMER'S P/N	0	PAGE	P 2/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR4018Z Series	DATE	2025/2/13

2.SERIES SPECIFICATION

◆CKNR4018Z Series Specification:

Part Number	Inductance	SRF	DCR(mΩ)		Saturation Current (A)		Temp.Rise Current (A)	
	L(μH)	MHz Min	Max	Typ	Max	Typ	Max	Typ
CKNR4018Z-R47YC	0.47	155	18	14	4.30	5.20	4.00	4.50
CKNR4018Z-R68YC	0.68	128	26	20	4.90	5.60	3.30	3.80
CKNR4018Z-1R0YC	1.00	80	36	25	4.20	4.70	4.20	5.20
CKNR4018Z-1R5YC	1.50	65	52	36	3.40	3.80	3.40	4.30
CKNR4018Z-2R2MC	2.20	52	72	47	3.10	3.40	3.30	4.00
CKNR4018Z-3R3MC	3.30	44	91	70	2.30	2.50	2.80	3.70
CKNR4018Z-4R7MC	4.70	34	117	90	1.90	2.16	2.40	3.40
CKNR4018Z-5R6MC	5.60	34	124	100	1.90	2.10	2.30	3.00
CKNR4018Z-6R8MC	6.80	29	143	118	1.85	2.00	2.00	2.40
CKNR4018Z-100MC	10.0	24	234	180	1.60	1.80	1.70	2.00
CKNR4018Z-150MC	15.0	19	351	250	0.90	1.10	1.20	1.50
CKNR4018Z-220MC	22.0	16	468	360	0.90	1.05	1.10	1.30
CKNR4018Z-330MC	33.0	12	689	530	0.80	0.90	1.00	1.10
CKNR4018Z-470MC	47.0	10	845	650	0.65	0.75	0.90	1.00
CKNR4018Z-680MC	68.0	8.3	1300	1140	0.50	0.56	0.70	0.90
CKNR4018Z-101MC	100	6.5	2275	1750	0.47	0.52	0.53	0.60
CKNR4018Z-151MC	150	5.5	3250	3500	0.31	0.34	0.22	0.36
CKNR4018Z-221MC	220	4	5200	4000	0.27	0.30	0.17	0.27

*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 CKNR4018Z Series size inductors,absolute maximum voltage: DC 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
梁智坤	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.	CKNR4018Z Series	DATE	2025/2/13

3.MATERIAL LIST & GENERAL SPECIFICATION

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

◆TEST CONDITION

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

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

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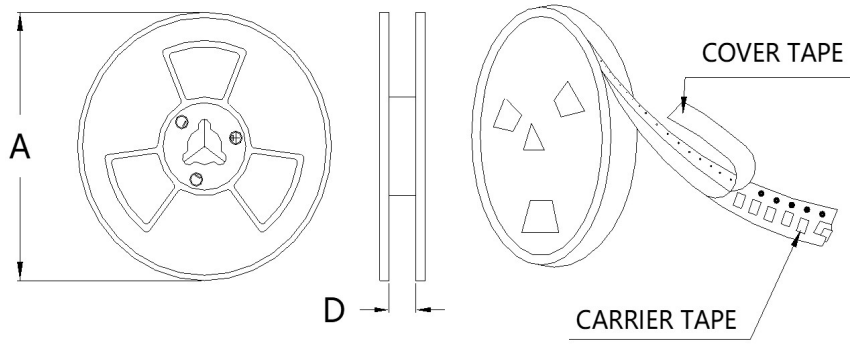
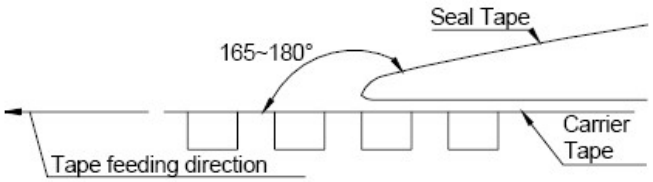
CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 4/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR4018Z Series	DATE	2025/2/13

4.PACKAGING(unit: mm)

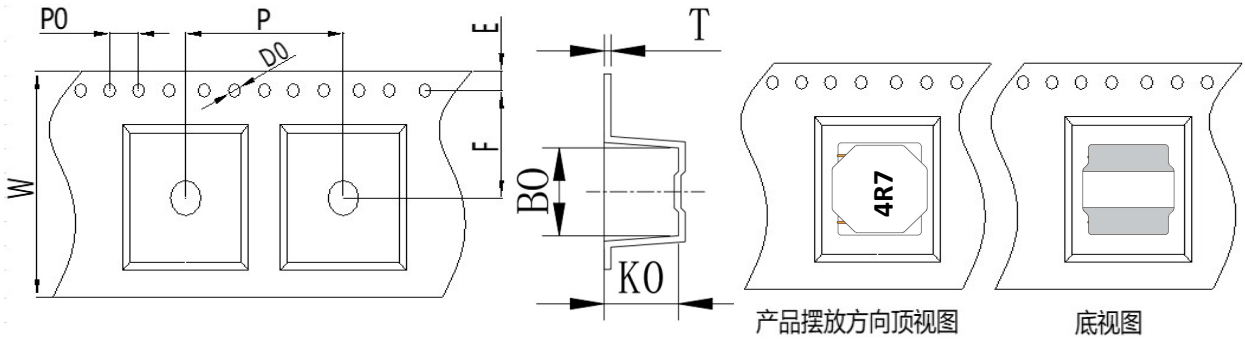
1.包装类型 **2.包装尺寸** ■ 13″ 盘 □ 7″ 盘



	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	4.3±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	2.1±0.1	

APPROVED BY	CHECKED BY	DRAFT
梁智坤	黄大燕	林树英

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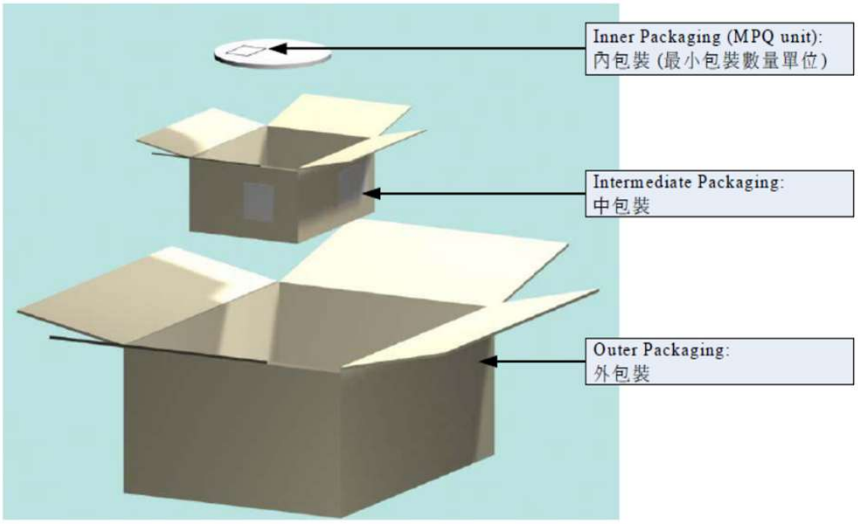
CUSTOMER'S P/N	0	PAGE	P 5/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR4018Z Series	DATE	2025/2/13

5. CARTON



1.1 外箱: 36*36*23 cm 一箱装 2内箱
1.2 内箱: 33.5*33.5*9 cm 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 每一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	3000	PCS

内箱包装数量				
每箱	5	卷,共	15000	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	30000	PCS

APPROVED BY	CHECKED BY	DRAFT
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CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 6/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR4018Z Series	DATE	2025/2/13

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.	CKNR4018Z Series	DATE	2025/2/13

7. SOLDERING CONDITIONS

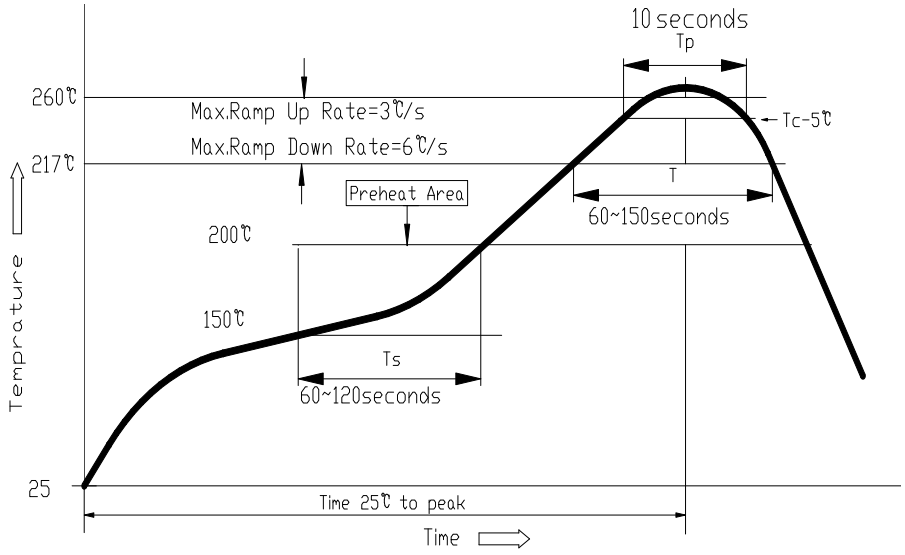
Applicable soldering process to the products is refl.

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

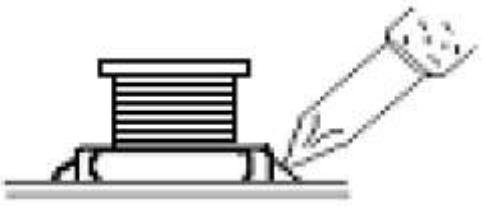
Reworking with electric solding iron must preheating at 150℃ for 1 minute is required,and do not directly touch the core with the tip of the soldering iron.The reworking soldering conditions are as follows.

①Temperature of soldering iron tip:350℃;

② Soldering iron power output:≤30W;

③ Diameter of soldering iron end:≤1.0mm;

④Soldering time:＜3 s

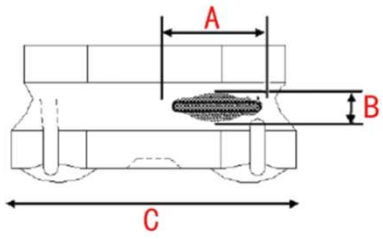


APPROVED BY	CHECKED BY	DRAFT
梁智坤	黄大燕	林树英

CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 8/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR4018Z Series	DATE	2025/2/13

8.Appearance of the standard

1.Void appearance tolerance limit



Size of voids occurring to coating resin is specified below.

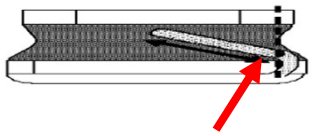
①Width direction(dimension A): Acceptable when A<=C/2

Nonconforming when B>=C/2

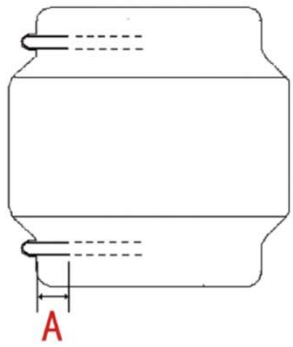
②Length direction(dimension B):Dimension b is not specified

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
梁智坤	黄大燕	林树英

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SPECIFICATION FOR APPROVAL

RoHS Compliance

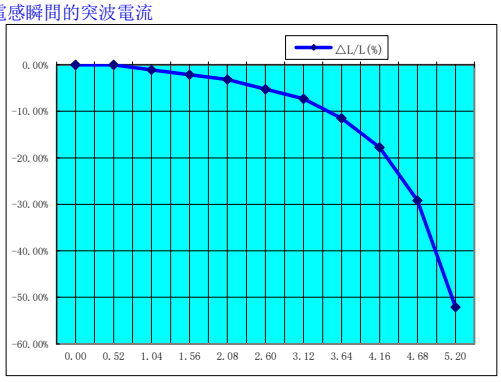
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4018Z-1R0YC	TEST R.H.	80~85%
PART NO.	CKNR4018Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

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%	36 Max.	3.80 Max.	△L/L≦-30%	2.00 △T≦40℃	上限 / 下限	4.2 / 3.8	4.2 / 3.8	1.8 / MAX
TEST FREQ.	1MHz/1V		100KHz/1V						
1	1.00	27.2	0.81	-19.00%	OK		4.09	4.02	1.70
2	1.01	26.7	0.80	-20.79%	OK		4.08	4.00	1.70
3	0.96	26.3	0.78	-18.75%	OK		4.03	4.01	1.74
4	0.95	26.9	0.76	-20.00%	OK		4.08	4.07	1.70
5	0.94	27.8	0.75	-20.21%	OK		4.11	4.01	1.72
6	0.99	27.6	0.79	-20.20%	OK		4.05	4.02	1.75
7	0.99	28.1	0.80	-19.19%	OK		4.06	4.06	1.76
8	0.96	26.0	0.79	-17.71%	OK		4.08	4.05	1.72
9	0.98	26.9	0.80	-18.37%	OK		4.09	4.02	1.73
10	0.95	27.6	0.78	-17.89%	OK		4.06	4.03	1.70
AVG.	**0.973**	**27.11**	**0.786**	**-19.21%**			**4.073**	**4.029**	**1.722**
R	**0.07**	**2.1**	**0.06**	**3.08%**			**0.08**	**0.07**	**0.06**

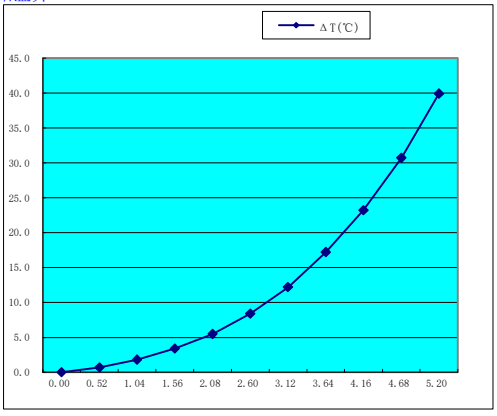
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	0.96	0.00%
1	0.52	0.96	0.00%
1	1.04	0.95	-1.04%
1	1.56	0.94	-2.08%
1	2.08	0.93	-3.12%
1	2.60	0.91	-5.21%
1	3.12	0.89	-7.29%
1	3.64	0.85	-11.46%
1	4.16	0.79	-17.71%
1	4.68	0.68	-29.17%
1	5.20	0.46	-52.08%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	0.94	0.00%	29.0	0.0
30	0.52	0.93	-1.06%	29.7	0.7
30	1.04	0.92	-2.13%	30.8	1.8
30	1.56	0.91	-3.19%	32.4	3.4
30	2.08	0.90	-4.26%	34.5	5.5
30	2.60	0.88	-6.38%	37.4	8.4
30	3.12	0.86	-8.51%	41.2	12.2
30	3.64	0.82	-12.77%	46.2	17.2
30	4.16	0.74	-21.28%	52.2	23.2
30	4.68	0.59	-37.23%	59.7	30.7
30	5.20	0.32	-65.96%	68.9	39.9



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SPECIFICATION FOR APPROVAL

RoHS Compliance

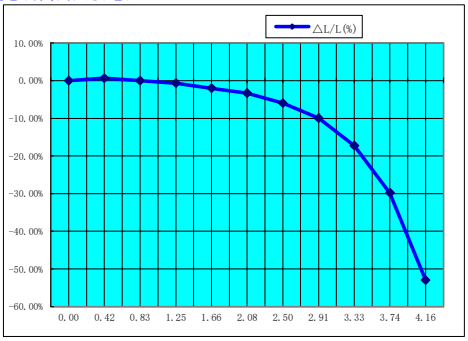
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4018Z-1R5YC	TEST R.H.	80~85%
PART NO.	CKNR4018Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

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%	52 Max.	3.30 Max.	△L/L≦-30%	1.70 △T≦40℃ ℃				上限 下限	4.2 3.8	4.2 3.8	1.8 MAX
TEST FREQ.	1MHz/1V		100KHz/1V									
1	1.55	38.1	1.40	-9.68%	OK					4.06	4.02	1.76
2	1.52	36.0	1.39	-8.55%	OK					4.08	4.04	1.75
3	1.51	36.4	1.38	-8.61%	OK					4.06	4.03	1.75
4	1.52	36.8	1.36	-10.53%	OK					4.03	4.03	1.78
5	1.52	35.7	1.38	-9.21%	OK					4.03	4.01	1.73
6	1.49	36.4	1.32	-11.41%	OK					4.06	4.00	1.76
7	1.54	36.7	1.35	-12.34%	OK					4.02	4.03	1.78
8	1.53	38.3	1.39	-9.15%	OK					4.01	4.01	1.78
9	1.52	36.9	1.35	-11.18%	OK					4.00	3.98	1.77
10	1.53	37.6	1.39	-9.15%	OK					4.06	4.02	1.75
AVG.	**1.523**	**36.89**	**1.371**	**-9.98%**						**4.041**	**4.017**	**1.761**
R	**0.06**	**2.6**	**0.08**	**3.79%**						**0.08**	**0.06**	**0.05**

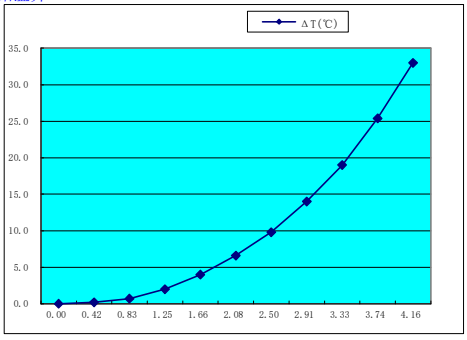
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	1.51	0.00%
1	0.42	1.52	0.66%
1	0.83	1.51	0.00%
1	1.25	1.50	-0.66%
1	1.66	1.48	-1.99%
1	2.08	1.46	-3.31%
1	2.50	1.42	-5.96%
1	2.91	1.36	-9.93%
1	3.33	1.25	-17.22%
1	3.74	1.06	-29.80%
1	4.16	0.71	-52.98%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	1.57	0.00%	28.0	0.0
30	0.42	1.55	-1.27%	28.2	0.2
30	0.83	1.54	-1.91%	28.7	0.7
30	1.25	1.52	-3.18%	30.0	2.0
30	1.66	1.51	-3.82%	32.0	4.0
30	2.08	1.50	-4.46%	34.6	6.6
30	2.50	1.46	-7.01%	37.8	9.8
30	2.91	1.37	-12.74%	42.0	14.0
30	3.33	1.19	-24.20%	47.0	19.0
30	3.74	0.84	-46.50%	53.4	25.4
30	4.16	0.53	-66.24%	61.0	33.0



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

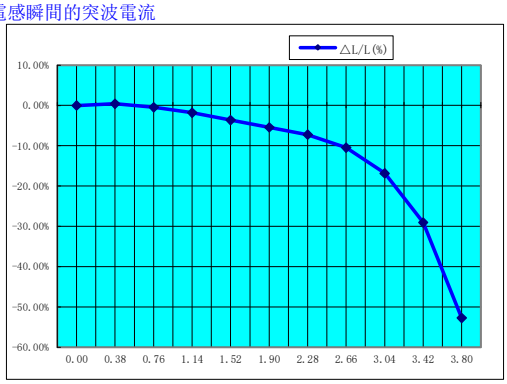
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4018Z-2R2MC-E	TEST R.H.	80~85%
PART NO.	CKNR4018Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

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%	72 Max.	2.70 Max.	△L/L≦-30%	1.65 △T≦40℃	上限 下限	4.2 3.8	4.2 3.8	1.8 MAX
TEST FREQ.	1MHz/1V		100KHz/1V						
1	2. 14	50. 2	1.80	-15.89%	OK		4.05	4.02	1.70
2	2. 17	46. 7	1.80	-17.05%	OK		4.09	4.03	1.76
3	2. 10	46. 0	1.80	-14.29%	OK		4.07	4.04	1.72
4	2. 21	49. 1	1.79	-19.00%	OK		4.06	4.04	1.72
5	2. 08	46. 8	1.73	-16.83%	OK		4.02	4.02	1.74
6	2. 22	47. 0	1.80	-18.92%	OK		4.06	4.06	1.76
7	2. 15	47. 3	1.75	-18.60%	OK		4.03	4.01	1.74
8	2. 13	47. 5	1.78	-16.43%	OK		4.01	4.03	1.72
9	2. 11	47. 1	1.70	-19.43%	OK		4.02	4.00	1.73
10	2. 19	46. 8	1.78	-18.72%	OK		4.06	4.03	1.74
AVG.	**2.150**	**47.45**	**1.773**	**-17.52%**			**4.047**	**4.028**	**1.733**
R	**0.14**	**4.2**	**0.1**	**5.15%**			**0.08**	**0.06**	**0.06**

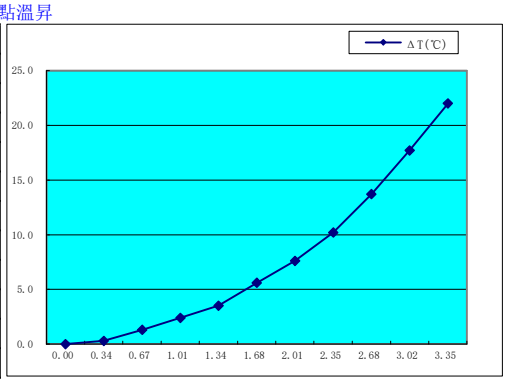
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	2.20	0.00%
1	0.38	2.21	0.45%
1	0.76	2.19	-0.45%
1	1.14	2.16	-1.82%
1	1.52	2.12	-3.64%
1	1.90	2.08	-5.45%
1	2.28	2.04	-7.27%
1	2.66	1.97	-10.45%
1	3.04	1.83	-16.82%
1	3.42	1.56	-29.09%
1	3.80	1.04	-52.73%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	2.25	0.00%	27.5	0.0
30	0.34	2.24	-0.44%	27.8	0.3
30	0.67	2.20	-2.22%	28.8	1.3
30	1.01	2.18	-3.11%	29.9	2.4
30	1.34	2.16	-4.00%	31.0	3.5
30	1.68	2.14	-4.89%	33.1	5.6
30	2.01	2.12	-5.78%	35.1	7.6
30	2.35	2.04	-9.33%	37.7	10.2
30	2.68	1.81	-19.56%	41.2	13.7
30	3.02	1.40	-37.78%	45.2	17.7
30	3.35	0.85	-62.22%	49.5	22.0



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

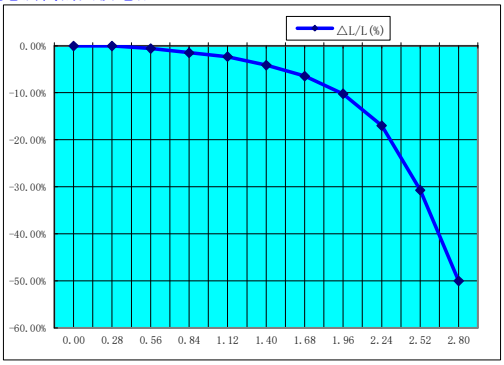
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4018Z-3R3MC-E	TEST R.H.	80~85%
PART NO.	CKNR4018Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

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%	91 Max.	2.45 Max.	△L/L≦-30%	1.23 △T≦40℃ ℃	上限 下限	4.2 3.8	4.2 3.8	1.8 MAX
TEST FREQ.	1MHz/1V		100KHz/1V						
1	3. 22	66. 3	2.65	-17.7%	OK		4.07	4.00	1.70
2	3. 19	67. 3	2.65	-16.9%	OK		4.03	4.03	1.70
3	3. 30	65. 5	2.68	-18.8%	OK		4.13	4.01	1.71
4	3. 18	66. 7	2.64	-17.0%	OK		4.06	4.07	1.71
5	3. 21	67. 4	2.68	-16.5%	OK		4.10	4.05	1.72
6	3. 24	66. 1	2.69	-17.0%	OK		4.06	4.06	1.75
7	3. 20	66. 2	2.62	-18.1%	OK		4.03	4.02	1.73
8	3. 23	67. 2	2.65	-18.0%	OK		4.05	4.03	1.72
9	3. 25	66. 6	2.65	-18.5%	OK		4.03	4.05	1.75
10	3. 20	66. 3	2.64	-17.5%	OK		4.06	4.01	1.73
AVG.	**3.222**	**66.56**	**2.655**	**-17.59%**			**4.062**	**4.033**	**1.722**
R	**0.12**	**1.9**	**0.07**	**2.28%**			**0.1**	**0.07**	**0.05**

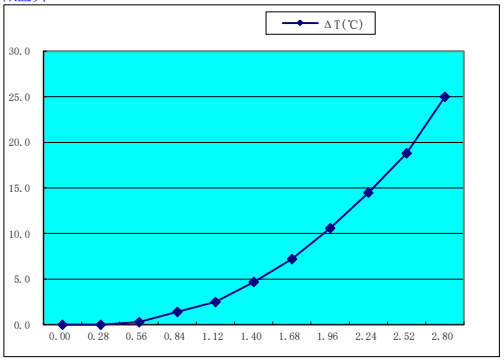
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	3.42	0.00%
1	0.28	3.42	0.00%
1	0.56	3.40	-0.58%
1	0.84	3.37	-1.46%
1	1.12	3.34	-2.34%
1	1.40	3.28	-4.09%
1	1.68	3.20	-6.43%
1	1.96	3.07	-10.23%
1	2.24	2.84	-16.96%
1	2.52	2.37	-30.70%
1	2.80	1.71	-50.00%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	3.34	0.00%	26.6	0.0
30	0.28	3.34	0.00%	26.6	0.0
30	0.56	3.34	0.00%	26.9	0.3
30	0.84	3.33	-0.30%	28.0	1.4
30	1.12	3.30	-1.20%	29.1	2.5
30	1.40	3.26	-2.40%	31.3	4.7
30	1.68	3.17	-5.09%	33.8	7.2
30	1.96	3.01	-9.88%	37.2	10.6
30	2.24	2.69	-19.46%	41.1	14.5
30	2.52	2.12	-36.53%	45.4	18.8
30	2.80	1.35	-59.58%	51.6	25.0



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

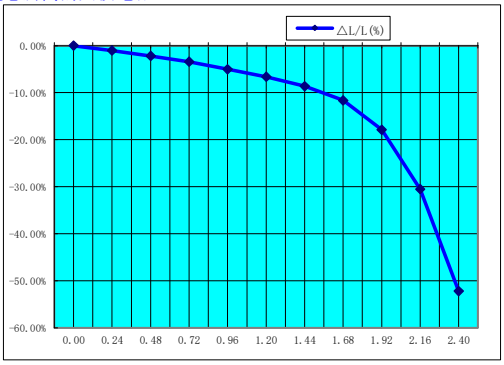
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4018Z-4R7MC-E	TEST R.H.	80~85%
PART NO.	CKNR4018Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

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%	117 Max.	1.70 Max.	△L/L≦-30%	1.20 △T≦40℃	上限 / 下限	4.2 / 3.8	4.2 / 3.8	1.8 MAX
TEST FREQ.	1MHz/1V		100KHz/1V						
1	4.40	93.1	4.00	-9.09%	OK		3.99	4.01	1.68
2	4.36	92.7	3.99	-8.49%	OK		3.99	4.02	1.73
3	4.45	92.8	4.02	-9.66%	OK		3.97	4.03	1.68
4	4.38	92.6	4.00	-8.68%	OK		3.99	4.03	1.75
5	4.37	92.9	4.00	-8.47%	OK		4.00	4.03	1.67
6	4.44	94.2	4.02	-9.46%	OK		4.00	3.99	1.78
7	4.41	92.5	3.99	-9.52%	OK		4.00	3.98	1.74
8	4.47	95.6	3.98	-10.96%	OK		4.00	3.97	1.72
9	4.50	93.0	4.02	-10.67%	OK		3.99	4.00	1.68
10	4.39	90.8	4.05	-7.74%	OK		4.05	4.00	1.69
AVG.	**4.417**	**93.02**	**4.007**	**-9.27%**			**3.998**	**4.006**	**1.712**
R	**0.14**	**4.8**	**0.07**	**3.22%**			**0.08**	**0.06**	**0.11**

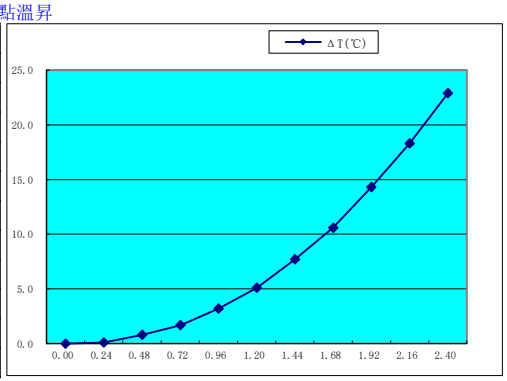
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	4.98	0.00%
1	0.24	4.93	-1.00%
1	0.48	4.87	-2.21%
1	0.72	4.81	-3.41%
1	0.96	4.73	-5.02%
1	1.20	4.65	-6.63%
1	1.44	4.55	-8.63%
1	1.68	4.40	-11.65%
1	1.92	4.09	-17.87%
1	2.16	3.46	-30.52%
1	2.40	2.38	-52.21%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	4.81	0.00%	24.1	0.0
30	0.24	4.81	0.00%	24.2	0.1
30	0.48	4.76	-1.04%	24.9	0.8
30	0.72	4.70	-2.29%	25.8	1.7
30	0.96	4.62	-3.95%	27.3	3.2
30	1.20	4.53	-5.82%	29.2	5.1
30	1.44	4.42	-8.11%	31.8	7.7
30	1.68	4.26	-11.43%	34.7	10.6
30	1.92	3.92	-18.50%	38.4	14.3
30	2.16	3.30	-31.39%	42.4	18.3
30	2.40	2.26	-53.01%	47.0	22.9



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

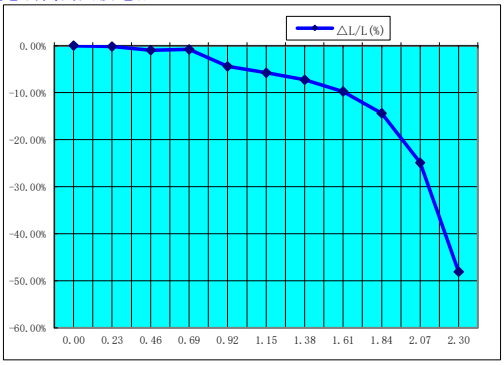
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4018Z-5R6MC-E	TEST R.H.	80~85%
PART NO.	CKNR4018Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION							DIMENSION (Unit：mm)		
MEAS. ITEM	L μh	DCR mΩ	Isat A	△L/L	Irms A		長 mm	寬 mm	高 mm
SPEC.	5.6 ± 20%	124 Max.	1.60 Max.	△L/L≦-30%	1.10 △T≦40℃ ℃	上限 下限	4.2 3.8	4.2 3.8	1.8 MAX
TEST FREQ.	1MHz/1V		100KHz/1V						
1	5.13	98	4.77	-7.02%	OK		3.99	4.01	1.68
2	5.32	97	4.80	-9.77%	OK		3.99	4.02	1.73
3	5.07	96	4.75	-6.31%	OK		3.97	4.03	1.68
4	5.15	98	4.77	-7.38%	OK		3.99	4.03	1.75
5	5.04	101	4.73	-6.15%	OK		4.00	4.03	1.67
6	5.22	100	4.70	-9.96%	OK		4.00	3.99	1.78
7	5.20	97.1	4.70	-9.62%	OK		4.00	3.98	1.74
8	5.42	97.2	4.80	-11.44%	OK		4.00	3.97	1.72
9	5.27	98	4.78	-9.30%	OK		3.99	4.00	1.68
10	5.11	100	4.74	-7.24%	OK		4.05	4.00	1.69
AVG.	**5.193**	**98.21**	**4.754**	**-8.42%**			**3.998**	**4.006**	**1.712**
R	**0.38**	**4.9**	**0.1**	**5.29%**			**0.08**	**0.06**	**0.11**

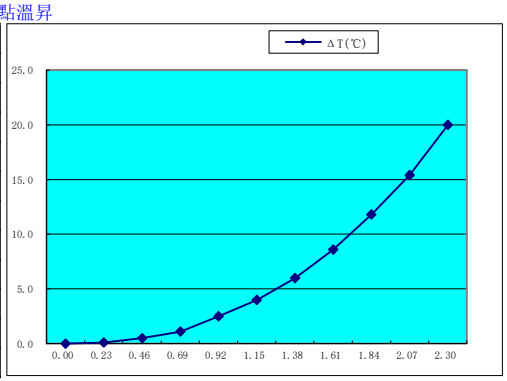
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	5.22	0.00%
1	0.23	5.21	-0.19%
1	0.46	5.17	-0.96%
1	0.69	5.18	-0.77%
1	0.92	4.99	-4.41%
1	1.15	4.92	-5.75%
1	1.38	4.84	-7.28%
1	1.61	4.71	-9.77%
1	1.84	4.47	-14.37%
1	2.07	3.92	-24.90%
1	2.30	2.71	-48.08%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	5.04	0.00%	27.6	0.0
30	0.23	5.01	-0.60%	27.7	0.1
30	0.46	4.94	-1.98%	28.1	0.5
30	0.69	4.93	-2.18%	28.7	1.1
30	0.92	4.88	-3.17%	30.1	2.5
30	1.15	4.83	-4.17%	31.6	4.0
30	1.38	4.75	-5.75%	33.6	6.0
30	1.61	4.61	-8.53%	36.2	8.6
30	1.84	4.34	-13.89%	39.4	11.8
30	2.07	3.73	-25.99%	43.0	15.4
30	2.30	2.43	-51.79%	47.6	20.0



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

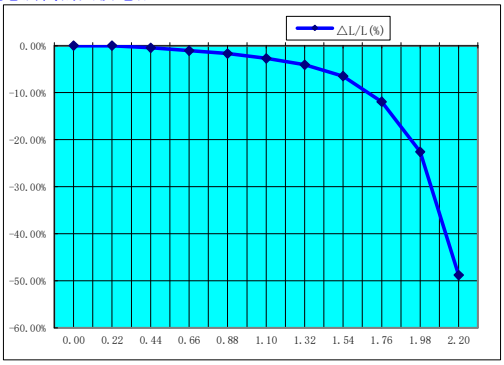
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4018Z-6R8MC-E	TEST R.H.	80~85%
PART NO.	CKNR4018Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

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%	143 Max.	1.45 Max.	△L/L≦-30%	1.06 △T≦40℃ ℃		上限 下限	4.2 3.8	4.2 3.8	1.8 MAX
TEST FREQ.	1MHz/1V		100KHz/1V							
1	6. 48	120	5.90	-8.95%	OK			3.98	4.03	1.73
2	6. 61	117	5.90	-10.74%	OK			3.98	4.05	1.67
3	6. 47	118	5.84	-9.74%	OK			3.99	4.03	1.72
4	6. 43	119	5.85	-9.02%	OK			3.99	4.03	1.75
5	6. 46	120	5.83	-9.75%	OK			3.99	4.04	1.70
6	6. 40	117	5.85	-8.59%	OK			4.01	4.02	1.66
7	6. 33	116	5.93	-6.32%	OK			4.02	3.99	1.69
8	6. 31	117	5.92	-6.18%	OK			4.05	3.98	1.69
9	6. 50	119	5.86	-9.85%	OK			3.98	4.01	1.78
10	6. 71	117	5.80	-13.56%	OK			3.99	4.02	1.74
AVG.	**6.470**	**118**	**5.868**	**-9.27%**				**3.998**	**4.0202**	**1.713**
R	**0.4**	**4**	**0.13**	**7.38%**				**0.07**	**0.07**	**0.12**

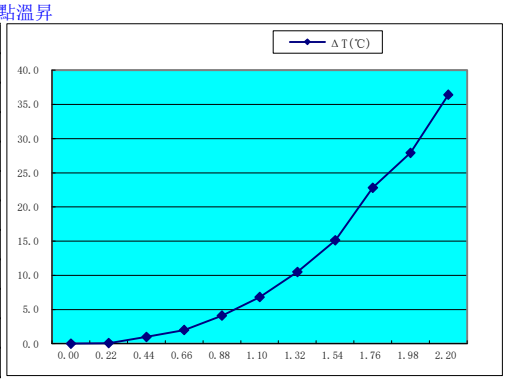
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	6.64	0.00%
1	0.22	6.64	0.00%
1	0.44	6.61	-0.45%
1	0.66	6.57	-1.05%
1	0.88	6.53	-1.66%
1	1.10	6.46	-2.71%
1	1.32	6.37	-4.07%
1	1.54	6.21	-6.48%
1	1.76	5.85	-11.90%
1	1.98	5.14	-22.59%
1	2.20	3.40	-48.80%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	6.67	0.00%	29.3	0.0
30	0.22	6.63	-0.60%	29.4	0.1
30	0.44	6.59	-1.20%	30.3	1.0
30	0.66	6.55	-1.80%	31.3	2.0
30	0.88	6.51	-2.40%	33.4	4.1
30	1.10	6.46	-3.15%	36.1	6.8
30	1.32	6.39	-4.20%	39.8	10.5
30	1.54	6.25	-6.30%	44.4	15.1
30	1.76	5.31	-20.39%	52.1	22.8
30	1.98	5.19	-22.19%	57.2	27.9
30	2.20	3.33	-50.07%	65.7	36.4



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

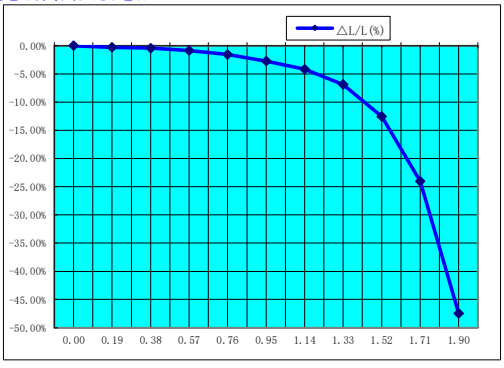
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4018Z-100MC-E	TEST R.H.	80~85%
PART NO.	CKNR4018Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

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%	234 Max.	1.3 Max.	△L/L≦-30%	0.84 △T≦40℃	上限 下限	4.2 3.8	4.2 3.8	1.8 MAX
TEST FREQ.	1MHz/1V		100KHz/1V						
1	9.88	184	8.92	-9.72%	OK		4.07	4.04	1.67
2	10.6	180	9.40	-11.32%	OK		4.02	4.07	1.69
3	10.8	178	9.60	-11.11%	OK		4.03	4.05	1.68
4	9.88	180	9.00	-8.91%	OK		4.04	4.03	1.68
5	10.0	178	9.00	-10.00%	OK		4.03	4.08	1.72
6	9.79	182	8.92	-8.89%	OK		4.06	4.03	1.72
7	10.7	179	9.30	-13.08%	OK		4.02	4.06	1.68
8	10.5	180	9.40	-10.48%	OK		4.03	4.01	1.69
9	10.7	178	9.42	-11.96%	OK		4.01	4.06	1.65
10	10.7	180	9.50	-11.21%	OK		4.00	3.98	1.76
AVG.	**10.355**	**179.9**	**9.246**	**-10.67%**			**4.031**	**4.041**	**1.694**
R	**1.01**	**6**	**0.68**	**4.20%**			**0.07**	**0.1**	**0.11**

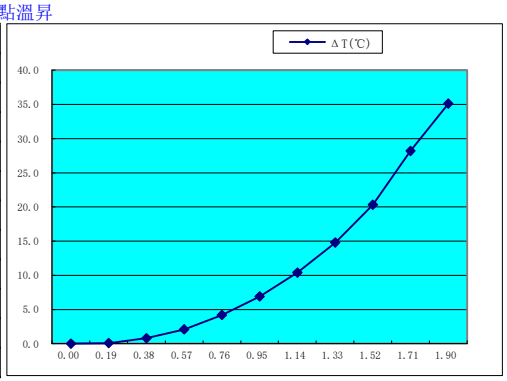
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	9.57	0.00%
1	0.19	9.54	-0.31%
1	0.38	9.53	-0.42%
1	0.57	9.49	-0.84%
1	0.76	9.42	-1.57%
1	0.95	9.31	-2.72%
1	1.14	9.17	-4.18%
1	1.33	8.91	-6.90%
1	1.52	8.37	-12.54%
1	1.71	7.27	-24.03%
1	1.90	5.03	-47.44%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	9.72	0.00%	25.4	0.0
30	0.19	9.69	-0.31%	25.5	0.1
30	0.38	9.69	-0.31%	26.2	0.8
30	0.57	9.62	-1.03%	27.5	2.1
30	0.76	9.50	-2.26%	29.6	4.2
30	0.95	9.36	-3.70%	32.3	6.9
30	1.14	9.17	-5.66%	35.8	10.4
30	1.33	8.80	-9.47%	40.2	14.8
30	1.52	7.95	-18.21%	45.7	20.3
30	1.71	6.10	-37.24%	53.6	28.2
30	1.90	3.32	-65.84%	60.5	35.1



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

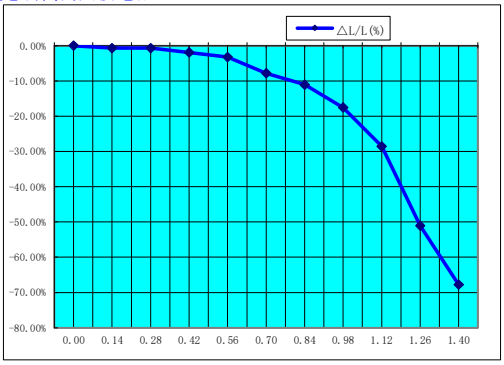
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4018Z-150MC-E	TEST R.H.	80~85%
PART NO.	CKNR4018Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

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%	351 Max.	0.96 Max.	△L/L≦-30%	0.65 △T≦40℃ ℃		上限 下限	4.2 3.8	4.2 3.8	1.8 MAX
TEST FREQ.	1MHz/1V		100KHz/1V							
1	14.3	273	12.40	-13.29%	OK			4.06	4.01	1.71
2	14.7	267	12.50	-14.97%	OK			4.07	4.04	1.72
3	14.1	266	12.50	-11.35%	OK			4.08	4.06	1.67
4	15.1	264	13.00	-13.91%	OK			4.02	4.00	1.69
5	15.2	272	13.00	-14.47%	OK			4.05	4.05	1.69
6	14.9	274	12.90	-13.42%	OK			4.02	4.03	1.65
7	14.3	263	12.40	-13.29%	OK			4.00	4.03	1.75
8	14.9	273	12.90	-13.42%	OK			4.03	4.00	1.65
9	14.6	274	12.50	-14.38%	OK			4.06	4.02	1.66
10	14.5	273	12.40	-14.48%	OK			4.00	4.01	1.69
AVG.	**14.660**	**269.9**	**12.65**	**-13.70%**				**4.039**	**4.025**	**1.688**
R	**1.1**	**11**	**0.6**	**3.62%**				**0.08**	**0.06**	**0.1**

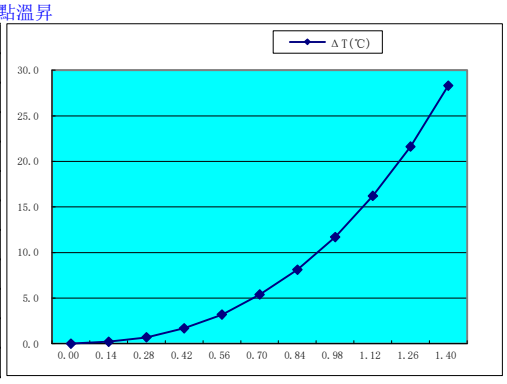
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	15.4	0.00%
1	0.14	15.3	-0.65%
1	0.28	15.3	-0.65%
1	0.42	15.1	-1.95%
1	0.56	14.9	-3.25%
1	0.70	14.2	-7.79%
1	0.84	13.7	-11.04%
1	0.98	12.7	-17.53%
1	1.12	11.0	-28.57%
1	1.26	7.54	-51.04%
1	1.40	4.96	-67.79%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	15.0	0.00%	28.1	0.0
30	0.14	14.9	-0.67%	28.3	0.2
30	0.28	14.9	-0.67%	28.8	0.7
30	0.42	14.7	-2.00%	29.8	1.7
30	0.56	14.5	-3.33%	31.3	3.2
30	0.70	14.2	-5.33%	33.5	5.4
30	0.84	13.8	-8.00%	36.2	8.1
30	0.98	13.3	-11.33%	39.8	11.7
30	1.12	12.2	-18.67%	44.3	16.2
30	1.26	10.0	-33.33%	49.7	21.6
30	1.40	5.96	-60.27%	56.4	28.3



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

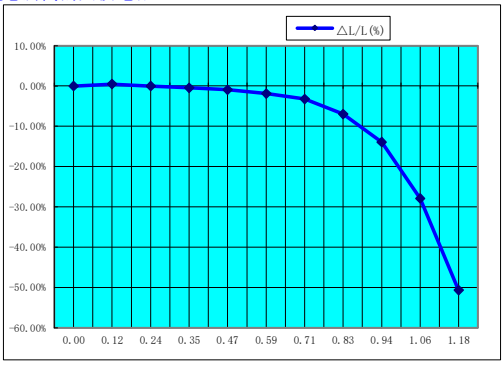
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4018Z-220MC-E	TEST R.H.	80~85%
PART NO.	CKNR4018Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

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%	468 Max.	0.8 Max.	△L/L≦-30%	0.59 △T≦40℃ ℃	上限 下限	4.2 3.8	4.2 3.8	1.8 MAX
TEST FREQ.	1MHz/1V		100KHz/1V						
1	20.8	362	19.5	-6.25%	OK		4.08	4.03	1.75
2	21.1	365	19.0	-9.95%	OK		4.10	4.05	1.67
3	21.3	372	19.9	-6.57%	OK		4.08	4.03	1.69
4	21.0	365	19.2	-8.57%	OK		4.03	4.05	1.70
5	21.3	366	19.5	-8.45%	OK		4.13	4.03	1.72
6	20.9	367	19.2	-8.13%	OK		4.07	4.01	1.72
7	20.7	372	19.0	-8.21%	OK		4.08	4.12	1.69
8	21.5	372	19.6	-8.84%	OK		4.06	4.03	1.74
9	22.0	371	19.9	-9.55%	OK		4.06	4.01	1.65
10	21.9	367	20.0	-8.68%	OK		4.00	3.98	1.66
AVG.	**21.250**	**367.9**	**19.48**	**-8.32%**			**4.069**	**4.034**	**1.699**
R	**1.3**	**10**	**1**	**3.70%**			**0.13**	**0.14**	**0.1**

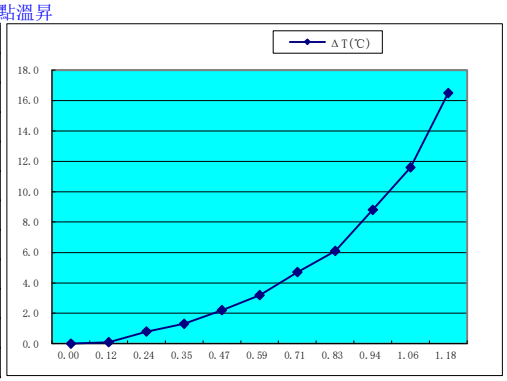
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	21.5	0.00%
1	0.12	21.6	0.47%
1	0.24	21.5	0.00%
1	0.35	21.4	-0.47%
1	0.47	21.3	-0.93%
1	0.59	21.1	-1.86%
1	0.71	20.8	-3.26%
1	0.83	20.0	-6.98%
1	0.94	18.5	-13.95%
1	1.06	15.5	-27.91%
1	1.18	10.6	-50.70%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	22.1	0.00%	25.1	0.0
30	0.12	22.1	0.00%	25.2	0.1
30	0.24	22.0	-0.45%	25.9	0.8
30	0.35	22.0	-0.45%	26.4	1.3
30	0.47	21.8	-1.36%	27.3	2.2
30	0.59	21.5	-2.71%	28.3	3.2
30	0.71	20.9	-5.43%	29.8	4.7
30	0.83	19.7	-10.86%	31.2	6.1
30	0.94	17.1	-22.62%	33.9	8.8
30	1.06	12.8	-42.08%	36.7	11.6
30	1.18	8.39	-62.04%	41.6	16.5



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

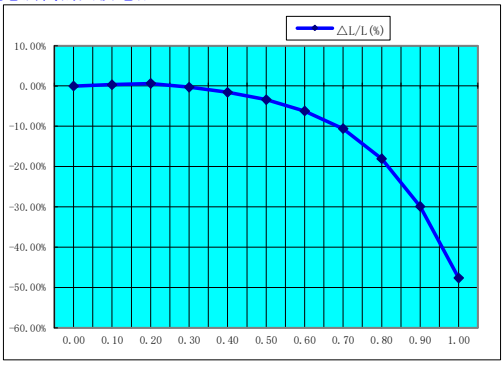
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4018Z-330MC-E	TEST R.H.	80~85%
PART NO.	CKNR4018Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

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%	689 Max.	0.65 Max.	△L/L≦-30%	0.49 △T≦40℃ ℃		上限 下限	4.2 3.8	4.2 3.8	1.8 MAX
TEST FREQ.	1MHz/1V		100KHz/1V							
1	31.3	602	28.0	-10.54%	OK			3.92	3.92	1.70
2	31.1	601	28.5	-8.36%	OK			4.00	3.93	1.72
3	30.2	596	27.0	-10.60%	OK			3.97	3.92	1.69
4	31.7	598	28.6	-9.78%	OK			3.99	3.94	1.73
5	31.1	604	28.1	-9.65%	OK			4.00	3.93	1.71
6	31.5	601	28.6	-9.21%	OK			4.00	3.99	1.69
7	31.2	602	28.1	-9.94%	OK			3.99	4.01	1.78
8	32.0	605	28.5	-10.94%	OK			3.97	4.02	1.74
9	31.4	620	27.9	-11.15%	OK			4.05	4.01	1.77
10	30.6	605	28.0	-8.50%	OK			4.02	3.99	1.72
AVG.	**31.210**	**603.4**	**28.13**	**-9.86%**				**3.991**	**3.966**	**1.725**
R	**1.8**	**24**	**1.6**	**2.79%**				**0.13**	**0.1**	**0.09**

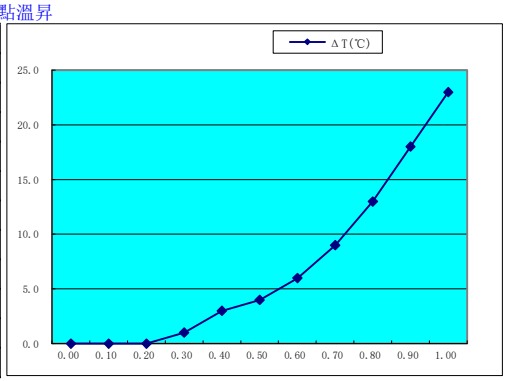
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	32.1	0.00%
1	0.10	32.2	0.31%
1	0.20	32.3	0.62%
1	0.30	32.0	-0.31%
1	0.40	31.6	-1.56%
1	0.50	31.0	-3.43%
1	0.60	30.1	-6.23%
1	0.70	28.7	-10.59%
1	0.80	26.3	-18.07%
1	0.90	22.5	-29.91%
1	1.00	16.8	-47.66%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	31.1	0.00%	32.0	0.0
30	0.10	30.9	-0.64%	32.0	0.0
30	0.20	30.6	-1.61%	32.0	0.0
30	0.30	30.9	-0.64%	33.0	1.0
30	0.40	30.4	-2.25%	35.0	3.0
30	0.50	29.8	-4.18%	36.0	4.0
30	0.60	28.7	-7.72%	38.0	6.0
30	0.70	26.8	-13.83%	41.0	9.0
30	0.80	23.6	-24.12%	45.0	13.0
30	0.90	18.4	-40.84%	50.0	18.0
30	1.00	11.3	-63.67%	55.0	23.0



承 认 书

SPECIFICATION FOR APPROVAL

RoHS Compliance

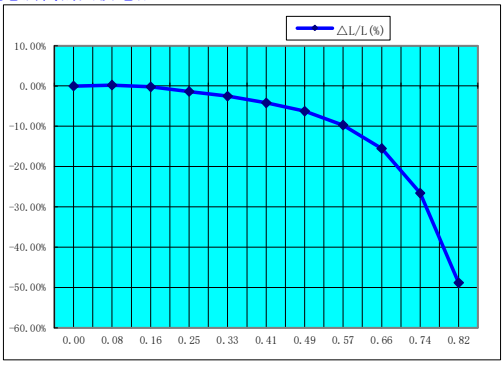
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4018Z-470MC-E	TEST R.H.	80~85%
PART NO.	CKNR4018Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

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.	0.57 Max.	△L/L≦-30%	0.42 △T≦40℃ ℃	上限 下限	4.2 3.8	4.2 3.8	1.8 MAX
TEST FREQ.	1MHz/1V		100KHz/1V						
1	47.9	785	40.0	-16.49%	OK		4.03	4.00	1.71
2	47.6	783	39.1	-17.86%	OK		4.00	4.00	1.67
3	48.2	783	38.6	-19.92%	OK		4.03	4.06	1.69
4	49.2	777	39.0	-20.73%	OK		4.07	4.03	1.70
5	48.3	766	39.2	-18.84%	OK		4.00	4.01	1.69
6	46.7	780	38.2	-18.20%	OK		4.06	4.00	1.69
7	48.9	785	39.0	-20.25%	OK		4.01	4.02	1.72
8	49.5	775	39.6	-20.00%	OK		4.06	4.00	1.71
9	47.5	756	39.5	-16.84%	OK		4.03	4.05	1.75
10	47.8	785	39.9	-16.53%	OK		4.01	4.01	1.72
AVG.	**48.160**	**777.5**	**39.21**	**-18.57%**			**4.03**	**4.018**	**1.705**
R	**2.8**	**29**	**1.8**	**4.24%**			**0.07**	**0.06**	**0.08**

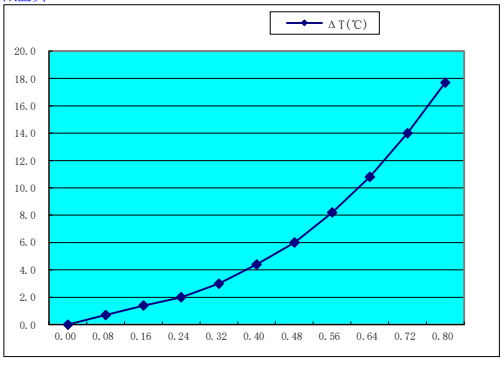
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	△L/L(%)
1	0.00	43.2	0.00%
1	0.08	43.3	0.23%
1	0.16	43.1	-0.23%
1	0.25	42.6	-1.39%
1	0.33	42.1	-2.55%
1	0.41	41.4	-4.17%
1	0.49	40.5	-6.25%
1	0.57	39.0	-9.72%
1	0.66	36.5	-15.51%
1	0.74	31.7	-26.62%
1	0.82	22.1	-48.84%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	44.8	0.00%	26.2	0.0
30	0.08	44.7	-0.22%	26.9	0.7
30	0.16	44.5	-0.67%	27.6	1.4
30	0.24	44.0	-1.79%	28.2	2.0
30	0.32	43.5	-2.90%	29.2	3.0
30	0.40	42.7	-4.69%	30.6	4.4
30	0.48	41.6	-7.14%	32.2	6.0
30	0.56	39.9	-10.94%	34.4	8.2
30	0.64	36.7	-18.08%	37.0	10.8
30	0.72	30.4	-32.14%	40.2	14.0
30	0.80	19.9	-55.58%	43.9	17.7



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SPECIFICATION FOR APPROVAL

RoHS Compliance

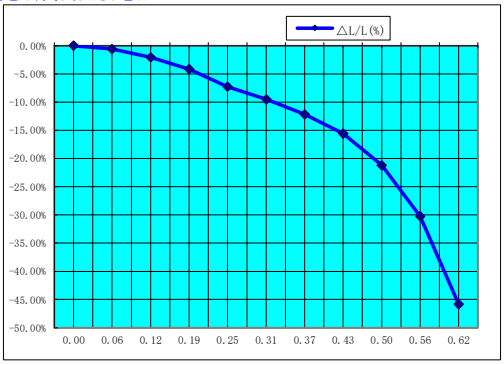
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4018Z-680MC-E	TEST R.H.	80~85%
PART NO.	CKNR4018Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION							DIMENSION (Unit：mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	△L/L	Irms A			長 mm	寬 mm	高 mm
SPEC.	68.0 ± 20%	1600 Max.	0.47 Max.	△L/L≦-30%	0.32 △T≦40℃		上限 下限	4.2 3.8	4.2 3.8	1.8 MAX
TEST FREQ.	1MHz/1V		100KHz/1V							
1	69.2	1140	55.0	-20.52%	OK			3.99	4.03	1.66
2	70.3	1150	54.0	-23.19%	OK			3.99	4.03	1.69
3	68.4	1150	55.3	-19.15%	OK			4.00	4.04	1.70
4	70.0	1140	54.2	-22.57%	OK			4.00	3.99	1.72
5	69.8	1160	55.1	-21.06%	OK			4.00	3.98	1.69
6	68.8	1140	55.5	-19.33%	OK			4.00	4.01	1.69
7	65.3	1130	55.0	-15.77%	OK			4.02	4.03	1.74
8	69.0	1140	54.8	-20.58%	OK			4.01	3.99	1.75
9	70.5	1150	54.6	-22.55%	OK			3.99	3.99	1.72
10	68.7	1130	55.0	-19.94%	OK			4.01	3.98	1.74
AVG.	**69.000**	**1143**	**54.85**	**-20.47%**				**4.001**	**4.007**	**1.71**
R	**5.2**	**30**	**1.5**	**7.41%**				**0.03**	**0.06**	**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	67.4	0.00%
1	0.06	67.0	-0.59%
1	0.12	66.0	-2.08%
1	0.19	64.6	-4.15%
1	0.25	62.5	-7.27%
1	0.31	61.0	-9.50%
1	0.37	59.2	-12.17%
1	0.43	56.9	-15.58%
1	0.50	53.1	-21.22%
1	0.56	47.0	-30.27%
1	0.62	36.5	-45.85%



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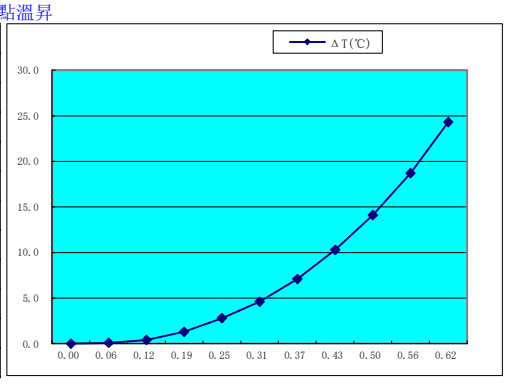
TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	65.6	0.00%	20.7	0.0
30	0.06	65.0	-0.91%	20.8	0.1
30	0.12	63.8	-2.74%	21.1	0.4
30	0.19	62.1	-5.34%	22.0	1.3
30	0.25	60.9	-7.16%	23.5	2.8
30	0.31	59.5	-9.30%	25.3	4.6
30	0.37	58.0	-11.59%	27.8	7.1
30	0.43	56.2	-14.33%	31.0	10.3
30	0.50	53.4	-18.60%	34.8	14.1
30	0.56	48.3	-26.37%	39.4	18.7
30	0.62	39.7	-39.48%	45.0	24.3



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SPECIFICATION FOR APPROVAL

RoHS Compliance

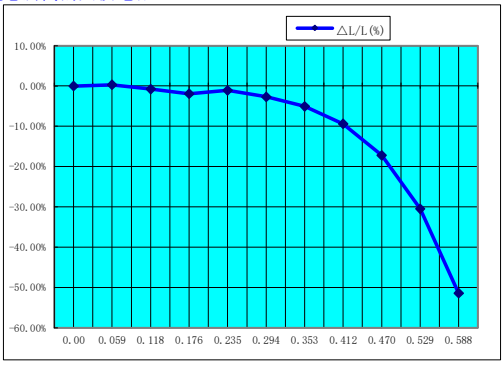
CUSTOMER			
CUSTOMER'S P/N			
JINKAI P/N:	CKNR4018Z-101MC-E	TEST R.H.	80~85%
PART NO.	CKNR4018Z Series	TEST TEMP.	20~25℃
DRAWN NO.		DATE	2025/2/13

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%	2275 Max.	0.4 Max.	△L/L≦-30%	0.27 △T≦40℃ ℃	上限 下限	4.2 3.8	4.2 3.8	1.8 MAX
TEST FREQ.	1MHz/1V		100KHz/1V						
1	96.0	1700	85.0	-11.46%	OK		3.99	4.03	1.66
2	96.6	1680	85.2	-11.80%	OK		3.99	4.03	1.69
3	98.4	1650	85.6	-13.01%	OK		4.00	4.04	1.70
4	100	1650	85.0	-15.00%	OK		4.00	3.99	1.72
5	97.6	1670	83.2	-14.75%	OK		4.00	3.98	1.69
6	96.3	1670	83.6	-13.19%	OK		4.00	4.01	1.69
7	96.4	1660	82.9	-14.00%	OK		4.02	4.03	1.74
8	98.5	1640	85.2	-13.50%	OK		4.01	3.99	1.75
9	96.0	1660	82.0	-14.58%	OK		3.99	3.99	1.72
10	96.0	1680	82.0	-14.58%	OK		4.01	3.98	1.74
AVG.	**97.180**	**1666**	**83.97**	**-13.59%**			**4.001**	**4.007**	**1.71**
R	**4**	**60**	**3.6**	**3.54%**			**0.03**	**0.06**	**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	99.3	0.00%
1	0.059	99.6	0.30%
1	0.118	98.5	-0.81%
1	0.176	97.4	-1.91%
1	0.235	98.2	-1.11%
1	0.294	96.6	-2.72%
1	0.353	94.3	-5.04%
1	0.412	90.0	-9.37%
1	0.470	82.2	-17.22%
1	0.529	69.0	-30.51%
1	0.588	48.2	-51.46%



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TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	98.3	0.00%	30.3	0.0
30	0.059	98.5	0.20%	30.3	0.0
30	0.118	97.5	-0.81%	30.8	0.5
30	0.176	96.4	-1.93%	32.0	1.7
30	0.235	97.1	-1.22%	33.9	3.6
30	0.294	95.2	-3.15%	36.5	6.2
30	0.353	92.2	-6.21%	39.8	9.5
30	0.412	86.5	-12.00%	44.0	13.7
30	0.470	76.0	-22.69%	48.5	18.2
30	0.529	57.0	-42.01%	55.6	25.3
30	0.588	34.8	-64.60%	63.7	33.4

