

承 认 书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	03/Apr/2025	REVISION NO.	A
PART NO.	CKNRS252012Z 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	
03/Apr/2025	03/Apr/2025	03/Apr/2025	



广东今凯电子科技有限公司

GUANG DONG CHK ELECTRONIC TECH Co., Ltd

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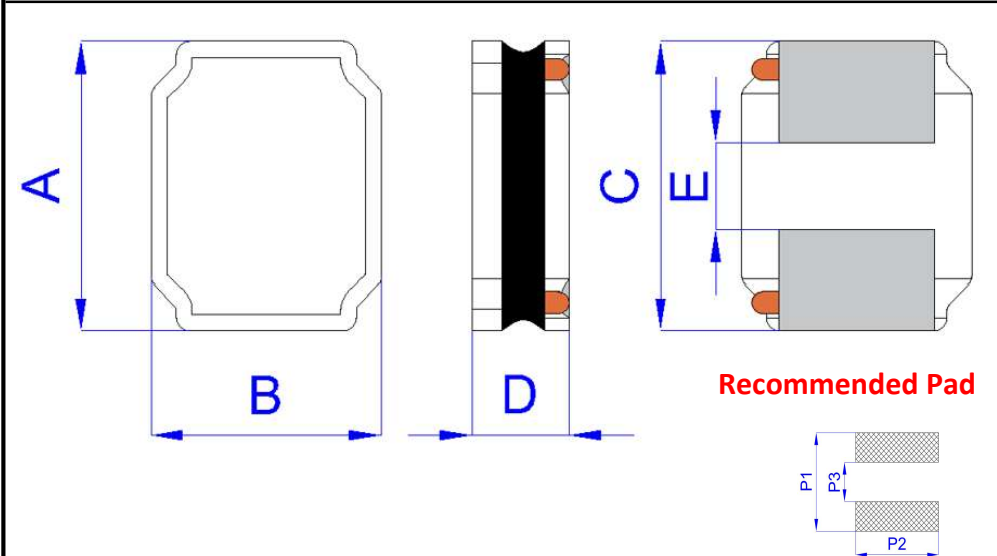
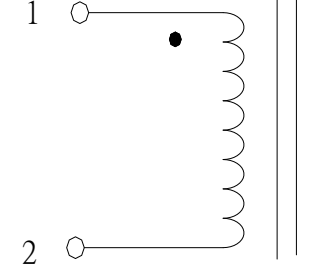
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PART NO.	CKNRS252012Z Series	DATE	2025/4/3

1.SHAPE & DIMENSION

UNIT: mm						SCHEMATICS	
							
						MARKING COLOR	
						NA	

A	B	C	D	E	P1	P2	P3
2.5	2	2.5	1.25	1.05	2.9	2.4	0.8
0.3/-0.1	0.3/-0.1	0.3/-0.1	MAX	±0.25	Ref.	Ref.	Ref.

PART NUMBERING SYSTEM

CK NRS 252012 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
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PART NO.	CKNRS252012Z Series	DATE	2025/4/3

2.SERIES SPECIFICATION

◆ CKNRS252012Z Series Specification:

Part Number	Inductance	Test Freq	DCR (mΩ)		Saturation Current (A)		Temp. Rise Current (A)	
	(μH)	(Hz)	Max	Typ	Max	Typ	Max	Typ
CKNRS252012Z-R24YC	0.24	1MHz/1V	25	19	7.00	8.50	4.05	4.70
CKNRS252012Z-R33YC	0.33		35	24	6.00	7.00	3.70	4.30
CKNRS252012Z-R47YC	0.47		39	29	5.10	5.80	3.45	4.00
CKNRS252012Z-R68YC	0.68		43	36	3.90	4.50	3.15	3.60
CKNRS252012Z-1R0YC	1.00		80	60	3.10	4.00	2.30	2.50
CKNRS252012Z-1R5YC	1.50		100	80	2.90	3.50	2.10	2.40
CKNRS252012Z-2R2MC	2.20		120	100	2.40	3.00	1.90	2.15
CKNRS252012Z-3R3MC	3.30		176	146	1.70	2.10	1.50	1.80
CKNRS252012Z-4R7MC	4.70		260	225	1.60	1.90	1.25	1.45
CKNRS252012Z-6R8MC	6.80		366	305	1.15	1.35	0.95	1.10
CKNRS252012Z-100MC	10.0		550	450	1.10	1.35	0.85	1.00

◆ TEST CONDITION

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

*The operating temperature is 25℃

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

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

*For CKNRS252012Z Series size inductors, absolute maximum voltage: I 25 V.

※此物料仅用于消费电子领域，若用于车载，航天，军事领域引起的一切品质和责任问题，我司既不承担※

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3.MATERIAL LIST & GENERAL SPECIFICATION

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

GENERAL SPECIFICATION

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

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4.PACKAGING(unit: mm)

1.包装类型

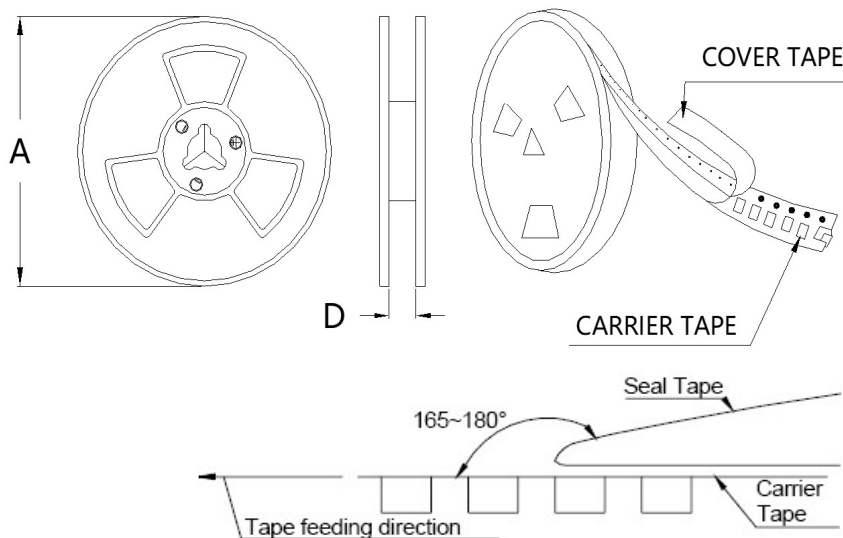
2.包装尺寸



13" 盘

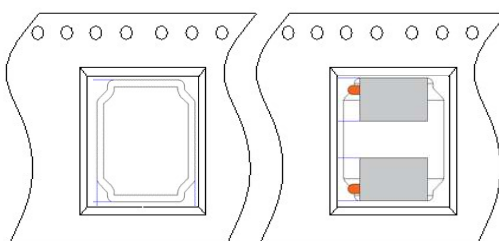
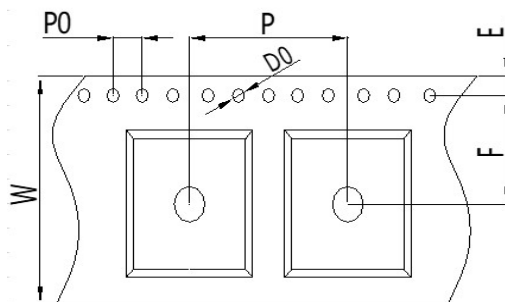


7" 盘



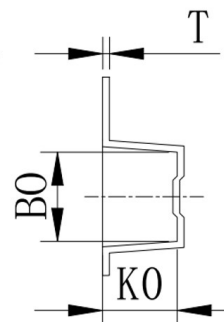
	13" 盘	7" 盘
A	$\Phi 330 \pm 2.0$	$\Phi 178 \pm 2.0$
D	8.4	

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



产品摆放方向顶视图

底视图



Item	W	B0	P	T	E	F	D0	P0	K0	
DIM(mm)	8.0±0.3	2.95±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	1.4±0.1	

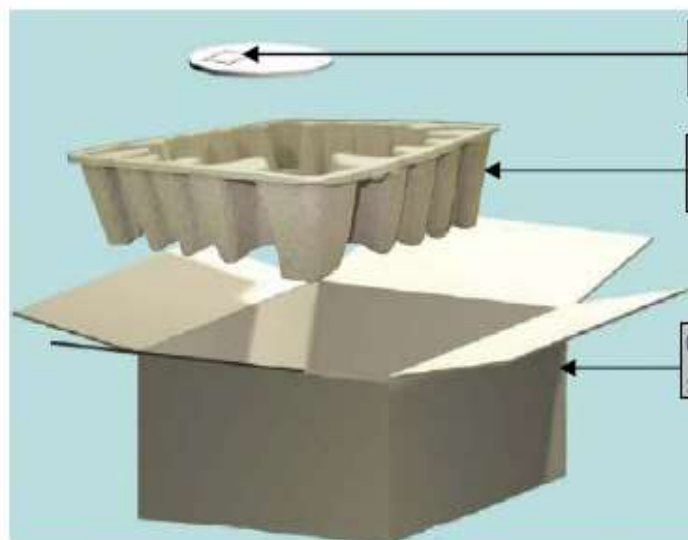
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5. CARTON



Innei Packaging(MPQ unit):
内包装 (最小包装数量单位)

Interm ediate Packaging:
中包装

Outer packaging:
外包装

1.1 外箱: 40*40*17 cm 一纸托装一箱

1.2 内箱: CAG002(装7寸卷盘TRAY盘)

1.3 外箱材质: A三A

1.4 内箱材质: A=A

1.5 每10卷制品用一只静电袋包装

1.6 每一静电袋内放一只袋干燥剂

1.7 每一卷上面依标签样式的要求贴上标签明细

1.8 出货内外箱贴上该箱内实际内容明细

1.9 出货标签规格如下: 尺寸=长度:39mm 宽度:29mm

(如: 客户有特殊要求时, 则依客户要求实施.)

储存条件及期限:

温度: 20-25℃

湿度: ≤70%

时间: 六个月

卷轴包装数量

每卷	2000	PCS
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外箱包装数量

每箱	40	卷,共	80000	PCS
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6. RELIABILITY TEST

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

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7. SOLDERING CONDITIONS

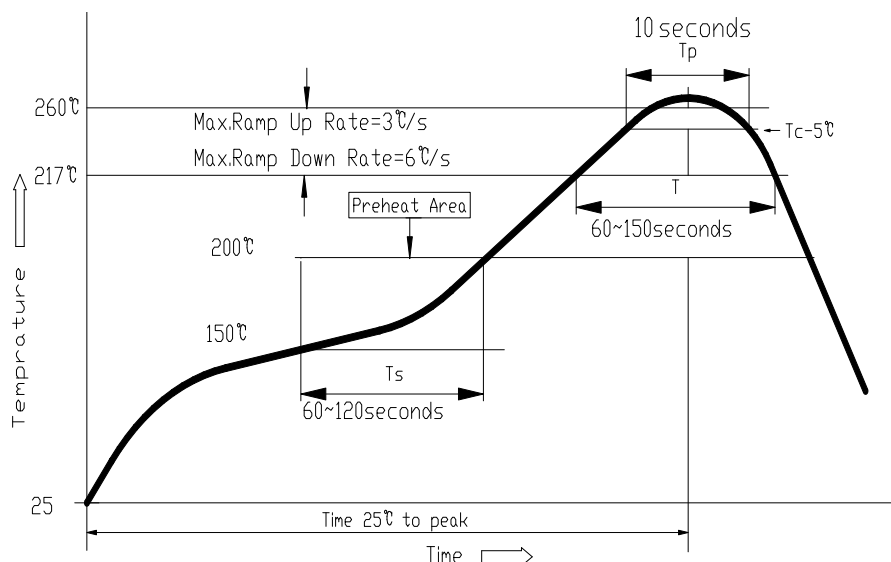
Applicable soldering process to the products is refl.

9.1 Soldering Materials

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

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

9.2 Reflow Soldering Profile



9.3 Soldering Iron

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

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



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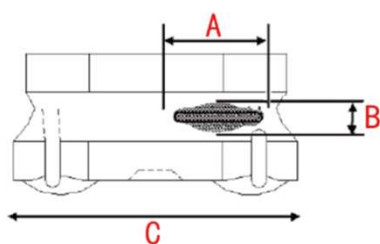


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8.Appearance of the standard

1.Void appearance tolerance limit



Size of voids occurring to coating resin is specified below.

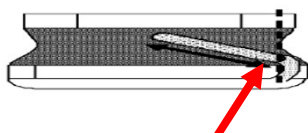
①Width direction(dimension A): Acceptable when $A \leq C/2$

Nonconforming when $B \geq C/2$

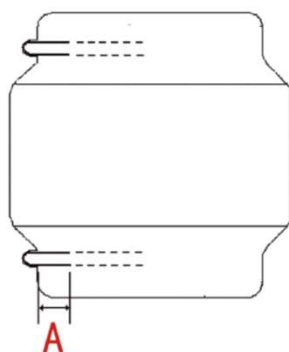
②Length direction(dimension B):Dimension b is not specified

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

2.External appearance criterion for exposed wire



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



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

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

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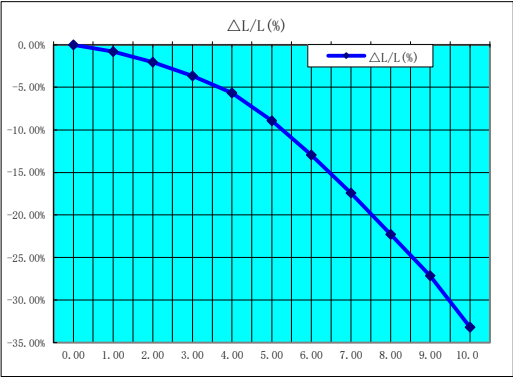
SPECIFICATION FOR APPROVAL

CUSTOMER	
CUSTOMER'S P/N	
JINKAI P/N:	CKNRS252012Z-R24YC
PART NO.	CKNRS252012Z Series
DRAWN NO.	

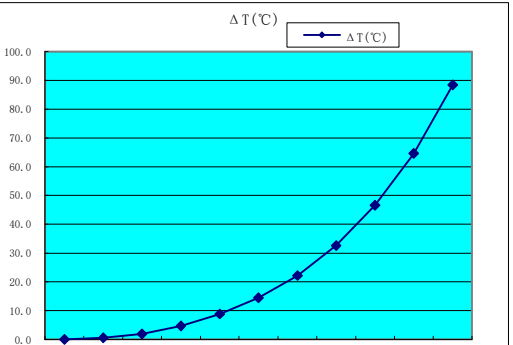
TEST R.H.	80~85%
TEST TEMP.	20~25℃
DATE	2025/4/3

TEST DATA FOR PREPRODUCTION SAMPLE											
TEST RESOLUTION								DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm
SPEC.	0.24 ± 30%	25 Max.	7.00 Max.	ΔL/L≤-30%	4.05 ΔT≤40℃ ℃				上限 下限	2.8 2.4	2.3 1.9 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	0.20	19.7	0.17	-15.00%	OK				2.67	2.21	1.21
2	0.20	19.5	0.17	-15.00%	OK				2.69	2.23	1.23
3	0.21	19.5	0.17	-19.05%	OK				2.69	2.19	1.22
4	0.21	19.5	0.17	-19.05%	OK				2.68	2.20	1.21
5	0.21	20.5	0.17	-19.05%	OK				2.69	2.20	1.21
6	0.20	20.2	0.17	-15.00%	OK				2.68	2.19	1.22
7	0.20	20.5	0.17	-15.00%	OK				2.69	2.18	1.22
8	0.21	20.2	0.17	-19.05%	OK				2.69	2.21	1.22
9	0.20	20.0	0.17	-15.00%	OK				2.68	2.25	1.23
10	0.21	20.1	0.17	-19.05%	OK				2.66	2.21	1.21
AVG.	0.205	19.97	0.17	-17.02%					2.682	2.207	1.218
R	0.01	1	0	4.05%					0.03	0.07	0.02

Isat(飽和電流):電感瞬間的突波電流			
TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	0.247	0.00%
1	1.00	0.245	-0.81%
1	2.00	0.242	-2.02%
1	3.00	0.238	-3.64%
1	4.00	0.233	-5.67%
1	5.00	0.225	-8.91%
1	6.00	0.215	-12.96%
1	7.00	0.204	-17.41%
1	8.00	0.192	-22.27%
1	9.00	0.180	-27.13%
1	10.0	0.165	-33.20%



單點溫昇					
TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	0.265	0.00%	26.9	0.0
30	0.80	0.263	-0.75%	27.4	0.5
30	1.60	0.261	-1.51%	28.8	1.9
30	2.40	0.259	-2.26%	31.5	4.6
30	3.20	0.255	-3.77%	35.7	8.8
30	4.00	0.251	-5.28%	41.3	14.4
30	4.80	0.246	-7.17%	49.1	22.2
30	5.60	0.239	-9.81%	59.5	32.6
30	6.40	0.231	-12.83%	73.5	46.6
30	7.20	0.220	-16.98%	91.5	64.6



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30	8.00	0.212	-20.00%	115.3	88,4	0.00	0.80	1.60	2.40	3.20	4.00	4.80	5.60	6.40	7.20	8.00

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CUSTOMER'S P/N

JINKAI P/N: CKNRS252012Z-R33YC

PART NO. CKNRS252012Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

DATE 2025/4/3

TEST DATA FOR PREPRODUCTION SAMPLE												
TEST RESOLUTION								DIMENSION (Unit : mm)				
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm	
SPEC.	0.33 ± 30%	35 Max.	6.00 Max.	ΔL/L≤-30%	3.70 ΔT≤40℃ ℃				上限 2.8 下限 2.4	2.3 1.9	1.25 MAX	
TEST FREQ.	100KHz/1V		100KHz/1V									
1	0.31	25.6	0.26	-16.13%	OK				2.67	2.21	1.21	
2	0.30	25.2	0.25	-16.67%	OK				2.69	2.23	1.23	
3	0.30	25.9	0.25	-16.67%	OK				2.69	2.19	1.22	
4	0.31	24.2	0.26	-16.13%	OK				2.68	2.20	1.21	
5	0.31	25.1	0.26	-16.13%	OK				2.69	2.20	1.21	
6	0.31	24.6	0.26	-16.13%	OK				2.68	2.19	1.22	
7	0.32	25.0	0.26	-18.75%	OK				2.69	2.18	1.22	
8	0.31	25.5	0.26	-16.13%	OK				2.69	2.21	1.22	
9	0.31	25.6	0.26	-16.13%	OK				2.68	2.25	1.23	
10	0.32	25.4	0.26	-18.75%	OK				2.66	2.21	1.21	
AVG.	0.310	25.21	0.258	-16.76%					2.682	2.207	1.218	
R	0.02	1.7	0.01	2.62%					0.03	0.07	0.02	

Isat(飽和電流):電感瞬間の突波電流			
TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	0.338	0.00%
1	0.95	0.335	-0.89%
1	1.90	0.332	-1.78%
1	2.85	0.324	-4.14%
1	3.80	0.316	-6.51%
1	4.75	0.307	-9.17%
1	5.70	0.294	-13.02%
1	6.65	0.278	-17.75%
1	7.60	0.261	-22.78%
1	8.55	0.243	-28.11%
1	9.50	0.212	-37.28%

單點溫昇					
TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	0.343	0.00%	28.1	0.0
30	0.50	0.341	-0.58%	28.2	0.1
30	1.00	0.340	-0.87%	28.9	0.8
30	1.50	0.339	-1.17%	30.2	2.1
30	2.00	0.335	-2.33%	32.1	4.0
30	2.50	0.332	-3.21%	34.7	6.6
30	3.00	0.329	-4.08%	38.2	10.1
30	3.50	0.325	-5.25%	42.6	14.5
30	4.00	0.321	-6.41%	48.2	20.1
30	4.50	0.316	-7.87%	54.3	26.2

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30	5.00	0.309	-9.91%	63.0	34.9	0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00

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CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNRS252012Z-R47YC

PART NO. CKNRS252012Z Series

DRAWN NO.

TEST R.H. 80~85%

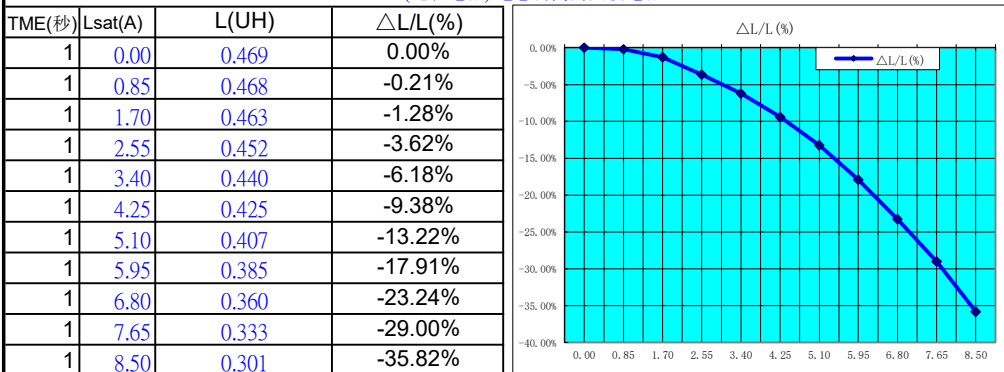
TEST TEMP. 20~25℃

DATE 2025/4/3

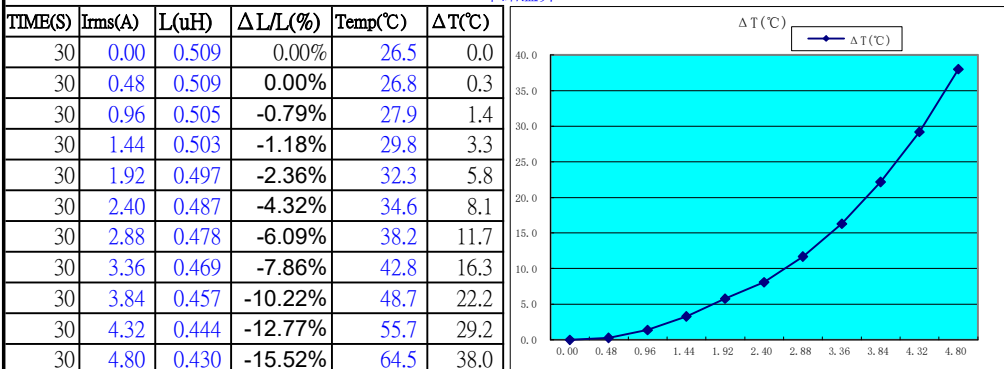
TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION								DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm
SPEC.	0.47 ± 30%	39 Max.	5.10 Max.	ΔL/L≤-30%	3.45 ΔT≤40℃ ℃			上限 下限	2.8 2.4	2.3 1.9	1.25 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	0.42	31.3	0.35	-16.67%	OK				2.66	2.25	1.21
2	0.43	30.3	0.36	-16.28%	OK				2.68	2.23	1.23
3	0.42	29.8	0.35	-16.67%	OK				2.64	2.21	1.22
4	0.41	30.2	0.35	-14.63%	OK				2.68	2.19	1.21
5	0.42	31.0	0.35	-16.67%	OK				2.69	2.19	1.21
6	0.41	29.6	0.35	-14.63%	OK				2.66	2.21	1.22
7	0.42	30.9	0.35	-16.67%	OK				2.65	2.20	1.22
8	0.43	31.7	0.36	-16.28%	OK				2.65	2.15	1.22
9	0.42	31.2	0.35	-16.67%	OK				2.65	2.19	1.23
10	0.42	31.0	0.35	-16.67%	OK				2.64	2.21	1.21
AVG.	0.420	30.7	0.352	-16.18%					2.66	2.203	1.218
R	0.02	2.1	0.01	2.03%					0.05	0.1	0.02

Isat(飽和電流):電感瞬間の突波電流



單點溫昇



承认书



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNRS252012Z-R68YC

PART NO. CKNRS252012Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25°C

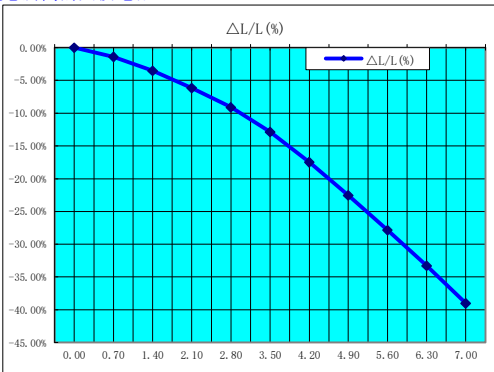
DATE 2025/4/3

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%	43 Max.	3.90 Max.	△L/L≤-30%	3.15 △T≤40℃ ℃			上限 下限	2.8 2.4	2.3 1.9	1.25 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	0.62	36.4	0.52	-16.13%	OK				2.66	2.19	1.21
2	0.63	36.2	0.52	-17.46%	OK				2.65	2.19	1.23
3	0.63	35.9	0.53	-15.87%	OK				2.63	2.19	1.22
4	0.63	36.4	0.53	-15.87%	OK				2.66	2.20	1.21
5	0.63	37.0	0.52	-17.46%	OK				2.65	2.21	1.21
6	0.64	36.0	0.53	-17.19%	OK				2.64	2.21	1.22
7	0.63	36.8	0.53	-15.87%	OK				2.68	2.25	1.22
8	0.63	36.5	0.53	-15.87%	OK				2.65	2.22	1.22
9	0.64	36.2	0.53	-17.19%	OK				2.65	2.21	1.23
10	0.64	36.5	0.53	-17.19%	OK				2.64	2.19	1.21
AVG.	0.632	36.39	0.527	-16.61%					2.651	2.206	1.218
R	0.02	1.1	0.01	1.59%					0.05	0.06	0.02

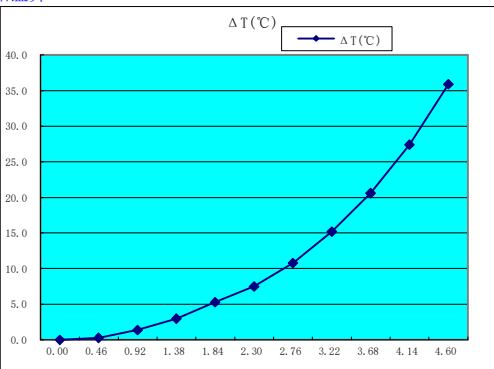
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Isat(A)	L(UH)	ΔL/L(%)
1	0.00	0.715	0.00%
1	0.70	0.705	-1.40%
1	1.40	0.690	-3.50%
1	2.10	0.671	-6.15%
1	2.80	0.650	-9.09%
1	3.50	0.623	-12.87%
1	4.20	0.590	-17.48%
1	4.90	0.554	-22.52%
1	5.60	0.516	-27.83%
1	6.30	0.477	-33.29%
1	7.00	0.436	-39.02%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(°C)	ΔT(°C)
30	0.00	0.64	0.00%	26.3	0.0
30	0.46	0.64	0.00%	26.6	0.3
30	0.92	0.64	0.00%	27.7	1.4
30	1.38	0.64	0.00%	29.3	3.0
30	1.84	0.63	-1.56%	31.6	5.3
30	2.30	0.61	-4.69%	33.8	7.5
30	2.76	0.60	-6.25%	37.1	10.8
30	3.22	0.58	-9.38%	41.5	15.2
30	3.68	0.57	-10.94%	46.9	20.6
30	4.14	0.55	-14.06%	53.7	27.4
30	4.60	0.53	-17.19%	62.2	35.9



承认书



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNRS252012Z-1R0YC

PART NO. CKNRS252012Z Series

DRAWN NO.

TEST R.H. 80~85%

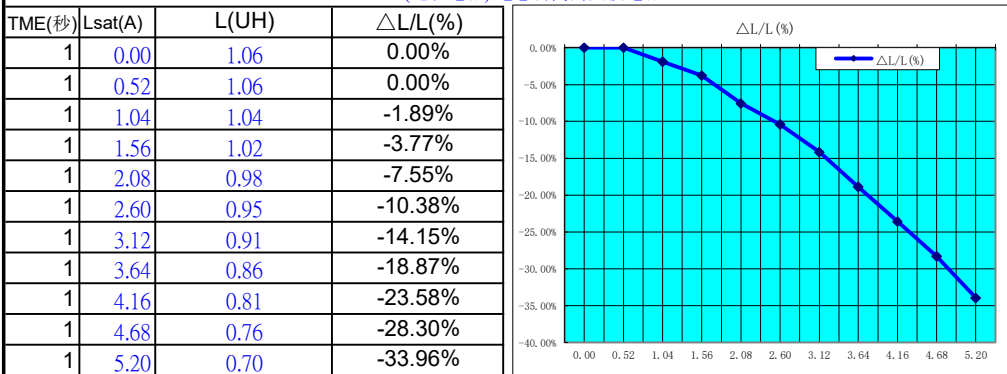
TEST TEMP. 20~25℃

DATE 2025/4/3

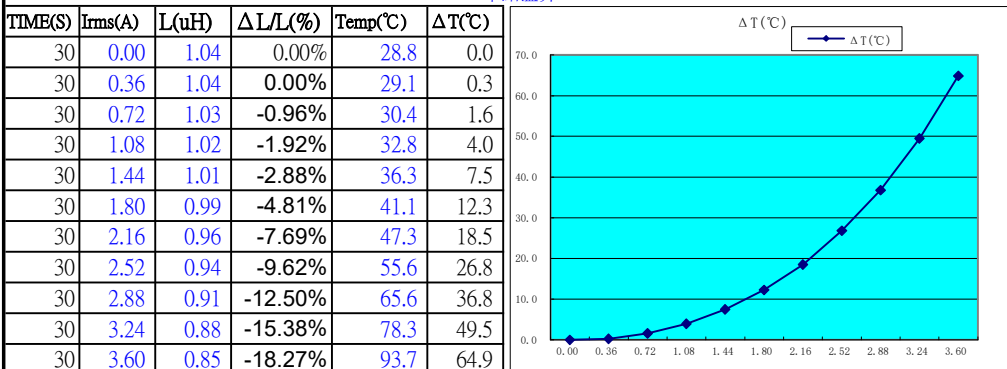
TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION								DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm
SPEC.	1.0 ± 30%	80 Max.	3.10 Max.	ΔL/L≤-30%	2.30 ΔT≤40℃ ℃				上限 2.8 下限 2.4	2.3 1.9	1.25 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	0.90	60.2	0.72	-20.00%	OK				2.67	2.17	1.20
2	0.92	60.5	0.73	-20.65%	OK				2.67	2.17	1.20
3	0.91	60.1	0.72	-20.88%	OK				2.66	2.21	1.21
4	0.90	60.2	0.71	-21.11%	OK				2.68	2.20	1.20
5	0.89	59.8	0.72	-19.10%	OK				2.67	2.20	1.20
6	0.92	60.2	0.72	-21.74%	OK				2.67	2.18	1.19
7	0.91	60.3	0.73	-19.78%	OK				2.66	2.21	1.19
8	0.90	60.5	0.72	-20.00%	OK				2.68	2.23	1.20
9	0.90	60.7	0.72	-20.00%	OK				2.66	2.21	1.18
10	0.90	60.8	0.71	-21.11%	OK				2.66	2.20	1.20
AVG.	0.905	60.33	0.72	-20.44%					2.668	2.198	1.197
R	0.03	1	0.02	2.64%					0.02	0.06	0.03

Isat(飽和電流):電感瞬間の突波電流



單點溫昇



承认书



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNRS252012Z-1R5YC

PART NO. CKNRS252012Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

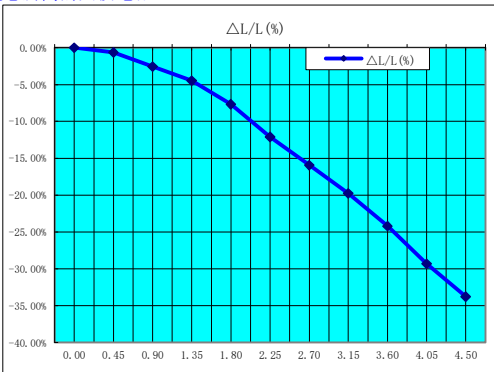
DATE 2025/4/3

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%	100 Max.	2.90 Max.	△L/L≤-30%	2.10 △T≤40℃ ℃				上限 2.8 下限 2.4	2.3 1.9	1.25 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	1.41	80.2	1.12	-20.57%	OK				2.63	2.19	1.21
2	1.40	79.8	1.13	-19.29%	OK				2.62	2.18	1.20
3	1.39	79.4	1.11	-20.14%	OK				2.65	2.19	1.21
4	1.38	80.5	1.10	-20.29%	OK				2.63	2.26	1.21
5	1.40	79.6	1.13	-19.29%	OK				2.65	2.25	1.20
6	1.41	79.8	1.14	-19.15%	OK				2.66	2.21	1.20
7	1.40	79.8	1.13	-19.29%	OK				2.64	2.20	1.20
8	1.41	79.6	1.14	-19.15%	OK				2.60	2.21	1.20
9	1.42	78.8	1.12	-21.13%	OK				2.65	2.20	1.20
10	1.40	79.5	1.12	-20.00%	OK				2.61	2.20	1.21
AVG.	1.402	79.7	1.124	-19.83%					2.634	2.209	1.204
R	0.04	1.7	0.04	1.98%					0.06	0.08	0.01

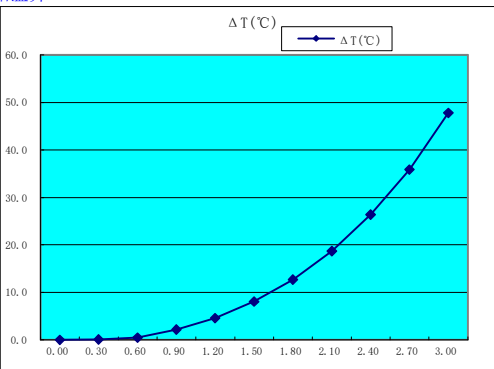
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	1.57	0.00%
1	0.45	1.56	-0.64%
1	0.90	1.53	-2.55%
1	1.35	1.50	-4.46%
1	1.80	1.45	-7.64%
1	2.25	1.38	-12.10%
1	2.70	1.32	-15.92%
1	3.15	1.26	-19.75%
1	3.60	1.19	-24.20%
1	4.05	1.11	-29.30%
1	4.50	1.04	-33.76%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	1.59	0.00%	30.6	0.0
30	0.30	1.58	-0.63%	30.7	0.1
30	0.60	1.55	-2.52%	31.1	0.5
30	0.90	1.53	-3.77%	32.8	2.2
30	1.20	1.52	-4.40%	35.2	4.6
30	1.50	1.50	-5.66%	38.7	8.1
30	1.80	1.47	-7.55%	43.3	12.7
30	2.10	1.42	-10.69%	49.3	18.7
30	2.40	1.38	-13.21%	57.0	26.4
30	2.70	1.34	-15.72%	66.5	35.9
30	3.00	1.30	-18.24%	78.4	47.8



承认书



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNRS252012Z-2R2MC

PART NO. CKNRS252012Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

DATE 2025/4/3

TEST DATA FOR PREPRODUCTION SAMPLE												
TEST RESOLUTION								DIMENSION (Unit : mm)				
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm	
SPEC.	2.2 ± 20%	120 Max.	2.40 Max.	ΔL/L≤-30%	1.90 ΔT≤40℃ ℃				上限 2.8 下限 2.4	2.3 1.9	1.25 MAX	
TEST FREQ.	100KHz/1V		100KHz/1V									
1	2.01	104	1.60	-20.40%	OK				2.67	2.20	1.13	
2	2.02	102	1.62	-19.80%	OK				2.66	2.21	1.16	
3	2.00	104	1.64	-18.00%	OK				2.67	2.21	1.16	
4	2.02	103	1.60	-20.79%	OK				2.66	2.20	1.18	
5	2.01	102	1.62	-19.40%	OK				2.68	2.16	1.17	
6	2.01	102	1.62	-19.40%	OK				2.66	2.19	1.17	
7	2.01	104	1.60	-20.40%	OK				2.66	2.20	1.18	
8	2.00	105	1.60	-20.00%	OK				2.66	2.25	1.17	
9	2.00	104	1.61	-19.50%	OK				2.66	2.21	1.16	
10	2.03	104	1.59	-21.67%	OK				2.65	2.24	1.17	
AVG.	2.011	103.4	1.61	-19.94%					2.663	2.207	1.165	
R	0.03	3	0.05	3.67%					0.03	0.09	0.05	

Isat(飽和電流):電感瞬間的突波電流			
TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	2.29	0.00%
1	0.37	2.28	-0.44%
1	0.74	2.26	-1.31%
1	1.11	2.21	-3.49%
1	1.48	2.14	-6.55%
1	1.85	2.06	-10.04%
1	2.22	1.93	-15.72%
1	2.59	1.83	-20.09%
1	2.96	1.73	-24.45%
1	3.33	1.62	-29.26%
1	3.70	1.50	-34.50%

單點溫昇					
TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	2.32	0.00%	27.4	0.0
30	0.30	2.31	-0.43%	27.5	0.1
30	0.60	2.29	-1.29%	28.3	0.9
30	0.90	2.26	-2.59%	30.2	2.8
30	1.20	2.22	-4.31%	33.0	5.6
30	1.50	2.16	-6.90%	37.1	9.7
30	1.80	2.09	-9.91%	42.6	15.2
30	2.10	1.98	-14.66%	49.6	22.2
30	2.40	1.91	-17.67%	58.5	31.1
30	2.70	1.83	-21.12%	70.1	42.7
30	3.00	1.74	-25.00%	84.7	57.3

承认书



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNRS252012Z-3R3MC

PART NO. CKNRS252012Z Series

DRAWN NO.

TEST R.H. 80~85%

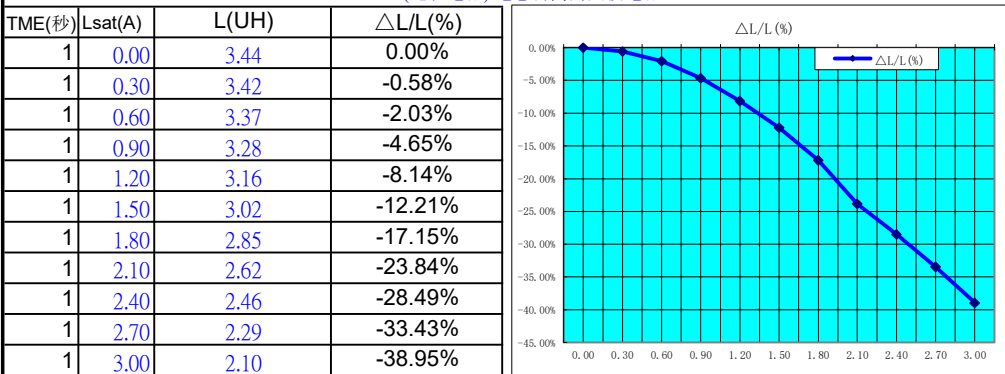
TEST TEMP. 20~25℃

DATE 2025/4/3

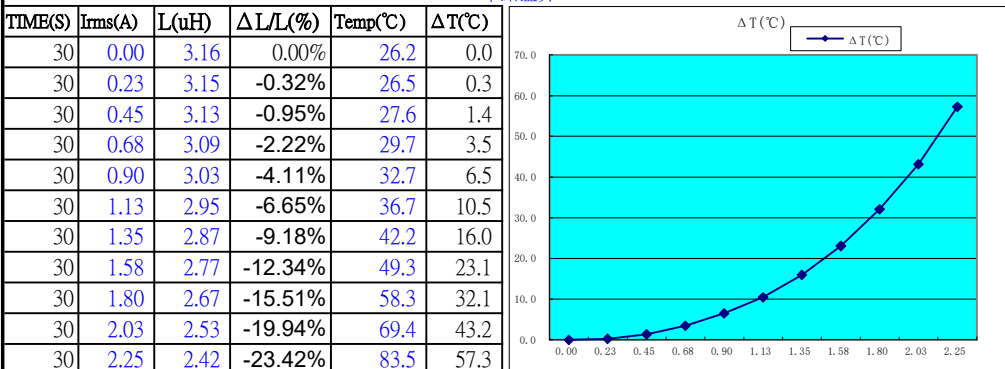
TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION									DIMENSION (Unit : mm)		
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm
SPEC.	3.3 ± 20%	176 Max.	1.70 Max.	ΔL/L≤-30%	1.50 ΔT≤40℃ ℃				上限 2.8 下限 2.4	2.3 1.9	1.25 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	2.95	146	2.42	-18.0%	OK				2.65	2.21	1.18
2	2.98	140	2.45	-17.8%	OK				2.62	2.20	1.14
3	2.96	142	2.46	-16.9%	OK				2.63	2.20	1.15
4	2.99	144	2.45	-18.1%	OK				2.61	2.23	1.18
5	3.00	146	2.47	-17.7%	OK				2.65	2.25	1.18
6	3.01	147	2.45	-18.6%	OK				2.64	2.18	1.17
7	3.02	148	2.49	-17.5%	OK				2.63	2.14	1.17
8	2.99	147	2.50	-16.4%	OK				2.62	2.15	1.15
9	2.98	144	2.46	-17.4%	OK				2.68	2.16	1.16
10	3.00	146	2.46	-18.0%	OK				2.61	2.20	1.18
AVG.	2.988	145	2.461	-17.64%					2.634	2.192	1.166
R	0.07	8	0.08	2.22%					0.07	0.11	0.04

Isat(飽和電流):電感瞬間的突波電流



單點溫昇



承认书



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNRS252012Z-4R7MC

PART NO. CKNRS252012Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

DATE 2025/4/3

TEST DATA FOR PREPRODUCTION SAMPLE												
TEST RESOLUTION								DIMENSION (Unit : mm)				
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm	
SPEC.	4.7 ± 20%	260 Max.	1.60 Max.	ΔL/L≤-30%	1.25 ΔT≤40℃ ℃				上限 下限	2.8 2.4	2.3 1.9	1.25 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	4.25	222	3.50	-17.65%	OK				2.65	2.12	1.18	
2	4.21	219	3.52	-16.39%	OK				2.63	2.18	1.14	
3	4.32	223	3.51	-18.75%	OK				2.64	2.18	1.18	
4	4.29	220	3.56	-17.02%	OK				2.68	2.20	1.17	
5	4.28	217	3.52	-17.76%	OK				2.68	2.20	1.16	
6	4.19	220	3.51	-16.23%	OK				2.66	2.21	1.15	
7	4.25	219	3.52	-17.18%	OK				2.66	2.21	1.16	
8	4.32	220	3.49	-19.21%	OK				2.66	2.21	1.15	
9	4.28	220	3.48	-18.69%	OK				2.66	2.21	1.15	
10	4.35	218	3.50	-19.54%	OK				2.65	2.25	1.18	
AVG.	4.274	219.8	3.511	-17.84%					2.657	2.1969	1.162	
R	0.16	6	0.08	3.31%					0.05	0.131	0.04	

Isat(飽和電流):電感瞬間的突波電流					
TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)		
1	0.00	5.06	0.00%		
1	0.26	5.02	-0.79%		
1	0.52	4.95	-2.17%		
1	0.78	4.83	-4.55%		
1	1.04	4.66	-7.91%		
1	1.30	4.45	-12.06%		
1	1.56	4.22	-16.60%		
1	1.82	3.96	-21.74%		
1	2.08	3.62	-28.46%		
1	2.34	3.37	-33.40%		
1	2.60	3.09	-38.93%		

單點溫昇							
TIME(S)	Irms(A)	L(μH)	ΔL/L(%)	Temp(℃)	ΔT(℃)		
30	0.00	5.05	0.00%	23.0	0.0		
30	0.24	5.04	-0.20%	24.3	1.3		
30	0.48	4.98	-1.39%	25.7	2.7		
30	0.72	4.87	-3.56%	28.6	5.6		
30	0.96	4.72	-6.53%	32.7	9.7		
30	1.20	4.53	-10.30%	38.4	15.4		
30	1.44	4.32	-14.46%	46.1	23.1		
30	1.68	4.09	-19.01%	56.4	33.4		
30	1.92	3.84	-23.96%	70.5	47.5		
30	2.16	3.53	-30.10%	88.6	65.6		
30	2.40	3.29	-34.85%	113.0	90.0		

承认书



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNRS252012Z-6R8MC

PART NO. CKNRS252012Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

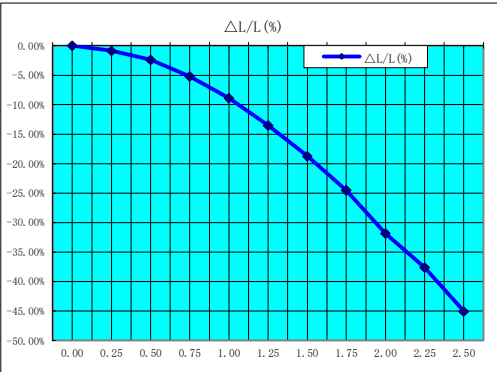
DATE 2025/4/3

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION						DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				
SPEC.	6.8 ± 20%	366 Max.	1.15 Max.	ΔL/L≤-30%	0.95 ΔT≤40℃ ℃			上限 下限	2.8 2.4 2.3 1.9 1.25 MAX
TEST FREQ.	100KHz/1V		100KHz/1V						
1	6.50	310	5.58	-14.15%	OK				2.62 2.21 1.15
2	6.52	317	5.59	-14.26%	OK				2.68 2.15 1.14
3	6.25	323	5.42	-13.28%	OK				2.65 2.19 1.16
4	6.38	322	5.49	-13.95%	OK				2.69 2.18 1.18
5	6.35	306	5.46	-14.02%	OK				2.65 2.21 1.18
6	6.36	317	5.50	-13.52%	OK				2.64 2.22 1.14
7	6.49	317	5.62	-13.41%	OK				2.62 2.25 1.15
8	6.51	320	5.63	-13.52%	OK				2.68 2.23 1.18
9	6.45	320	5.61	-13.02%	OK				2.68 2.25 1.14
10	6.28	319	5.62	-10.51%	OK				2.64 2.20 1.13
AVG.	6.409	317.1	5.552	-13.36%					2.655 2.209 1.155
R	0.27	17	0.21	3.75%					0.07 0.1 0.05

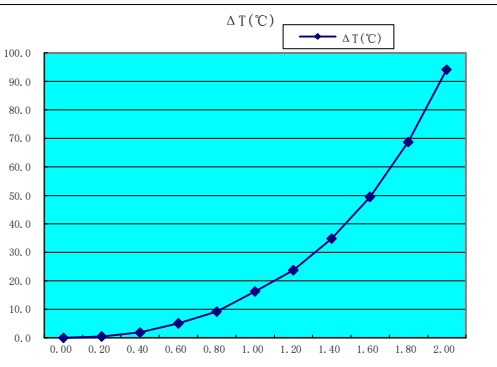
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Isat(A)	L(UH)	ΔL/L(%)
1	0.00	7.10	0.00%
1	0.25	7.04	-0.85%
1	0.50	6.93	-2.39%
1	0.75	6.73	-5.21%
1	1.00	6.47	-8.87%
1	1.25	6.14	-13.52%
1	1.50	5.77	-18.73%
1	1.75	5.36	-24.51%
1	2.00	4.84	-31.83%
1	2.25	4.43	-37.61%
1	2.50	3.90	-45.07%



單點溫昇

TIME(S)	Irms(A)	L(μH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	7.02	0.00%	25.8	0.0
30	0.20	7.00	-0.28%	26.3	0.5
30	0.40	6.94	-1.14%	27.7	1.9
30	0.60	6.81	-2.99%	31.0	5.2
30	0.80	6.62	-5.70%	35.0	9.2
30	1.00	6.51	-7.26%	42.1	16.3
30	1.20	6.14	-12.54%	49.6	23.8
30	1.40	5.84	-16.81%	60.7	34.9
30	1.60	5.53	-21.23%	75.3	49.5
30	1.80	5.19	-26.07%	94.6	68.8
30	2.00	4.79	-31.77%	120.0	94.2



承认书



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNRS252012Z-100MC

PART NO. CKNRS252012Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

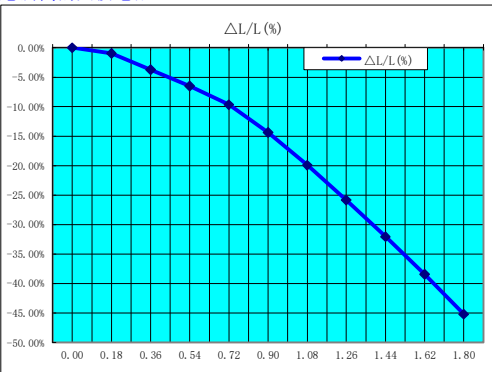
DATE 2025/4/3

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%	550 Max.	1.10 Max.	△L/L≤-30%	0.85 △T≤40℃ ℃				上限 下限	2.8 2.4	2.3 1.9 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	9.36	454	7.50	-19.87%	OK				2.64	2.26	1.18
2	9.45	442	7.58	-19.79%	OK				2.65	2.25	1.17
3	9.29	442	7.52	-19.05%	OK				2.64	2.21	1.17
4	9.35	436	7.51	-19.68%	OK				2.64	2.20	1.15
5	9.39	438	7.49	-20.23%	OK				2.65	2.18	1.17
6	9.38	435	7.52	-19.83%	OK				2.64	2.18	1.14
7	9.45	440	7.56	-20.00%	OK				2.66	2.20	1.16
8	9.42	438	7.60	-19.32%	OK				2.67	2.20	1.15
9	9.27	438	7.58	-18.23%	OK				2.66	2.21	1.18
10	9.26	452	7.65	-17.39%	OK				2.67	2.16	1.18
AVG.	9.362	441.5	7.551	-19.34%					2.652	2.205	1.165
R	0.19	19	0.16	2.85%					0.03	0.1	0.04

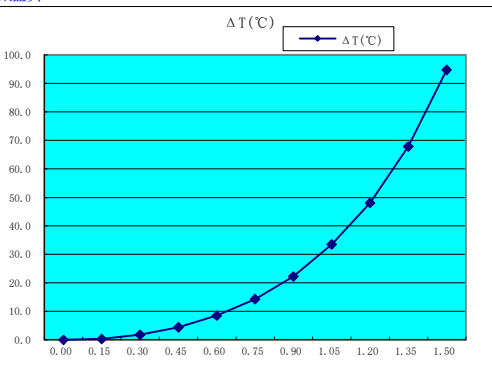
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	10.8	0.00%
1	0.18	10.7	-0.93%
1	0.36	10.4	-3.70%
1	0.54	10.1	-6.48%
1	0.72	9.76	-9.63%
1	0.90	9.25	-14.35%
1	1.08	8.65	-19.91%
1	1.26	8.01	-25.83%
1	1.44	7.34	-32.04%
1	1.62	6.65	-38.43%
1	1.80	5.92	-45.19%



單點溫昇

TIME(S)	Irms(A)	L(μH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	10.2	0.00%	25.2	0.0
30	0.15	10.2	0.00%	25.5	0.3
30	0.30	10.0	-1.96%	27.0	1.8
30	0.45	9.84	-3.53%	29.6	4.4
30	0.60	9.61	-5.78%	33.7	8.5
30	0.75	9.31	-8.73%	39.5	14.3
30	0.90	8.94	-12.35%	47.5	22.3
30	1.05	8.82	-13.53%	58.7	33.5
30	1.20	8.06	-20.98%	73.3	48.1
30	1.35	7.57	-25.78%	93.1	67.9
30	1.50	7.05	-30.88%	120	94.8



承认书

