

承 认 书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	28/Mar/2025	REVISION NO.	A
PART NO.	CKNRS252010Z Series		
DRAWN NO.			
DESCRIPTION.	SMD POWER INDUCTOR		
Customer's Signature			
Approved by	Checked by	Drawn by	
28/Mar/2025	28/Mar/2025	28/Mar/2025	



广东今凯电子科技有限公司

GUANG DONG CHK ELECTRONIC TECH Co., Ltd

广东省佛山市顺德区北滘万洋科创园二区3栋

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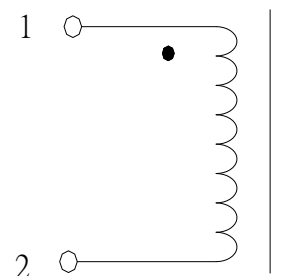
广东今凯电子科技有限公司
GUANG DONG CHK ELECTRONIC TECH Co., Ltd

CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 1/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNRS252010Z Series	DATE	2025/3/28

1.SHAPE & DIMENSION

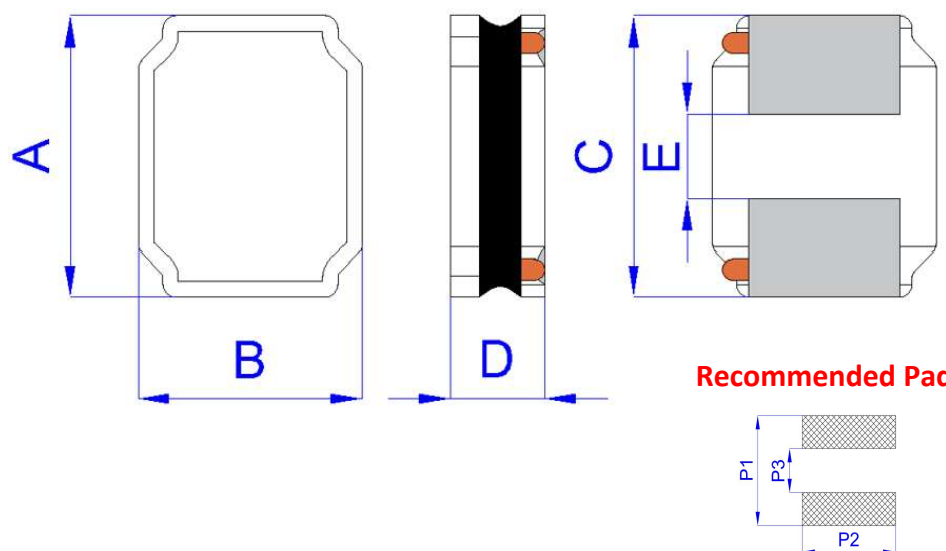
UNIT: mm

SCHEMATICS



MARKING
COLOR

NA



A	B	C	D	E	P1	P2	P3
2.5	2.0	2.5	1.05	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.

品名R33高度为1.1MAX

PART NUMBERING SYSTEM

CK NRS 252010 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.	CKNRS252010Z Series	DATE	2025/3/28

2.SERIES SPECIFICATION

◆ CKNRS252010Z Series Specification:

Part Number	Inductance	Teat Freq	DCR (mΩ)		Saturation Current (A)		Temp. Rise Current (A)	
	(μH)		Max	Typ	Max	Typ	Max	Typ
CKNRS252010Z-R24YC	0.24	1MHz/1V	32	24	6.70	8.50	4.00	5.30
CKNRS252010Z-R33YC	0.33		39	28	6.80	8.40	3.85	4.50
CKNRS252010Z-R47YC	0.47		47	38	5.50	6.80	3.70	4.30
CKNRS252010Z-R68YC	0.68		59	43	4.60	5.80	3.25	4.00
CKNRS252010Z-1R0YC	1.0		76	59	4.00	4.70	2.70	3.50
CKNRS252010Z-1R5YC	1.5		116	96	2.70	3.60	2.10	3.20
CKNRS252010Z-2R2MC	2.2		158	129	2.30	2.90	2.00	2.80
CKNRS252010Z-3R3MC	3.3		245	196	1.60	2.00	1.70	2.50
CKNRS252010Z-4R7MC	4.7		320	245	1.30	1.70	1.30	1.80
CKNRS252010Z-6R8MC	6.8		420	340	1.00	1.30	1.00	1.40
CKNRS252010Z-100MC	10		650	435	0.90	1.00	0.80	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 $\Delta T \leq 40^{\circ}\text{C}$. (Ta=25℃)

*For CKNRS252010Z 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※

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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)	MG	RoHS	Primary
铜线 (Wire)	Polyester Wire or equivalent	ELEKTRISOLA	RoHS	
胶水 (Glue)	Phenolic epoxy resin	CH	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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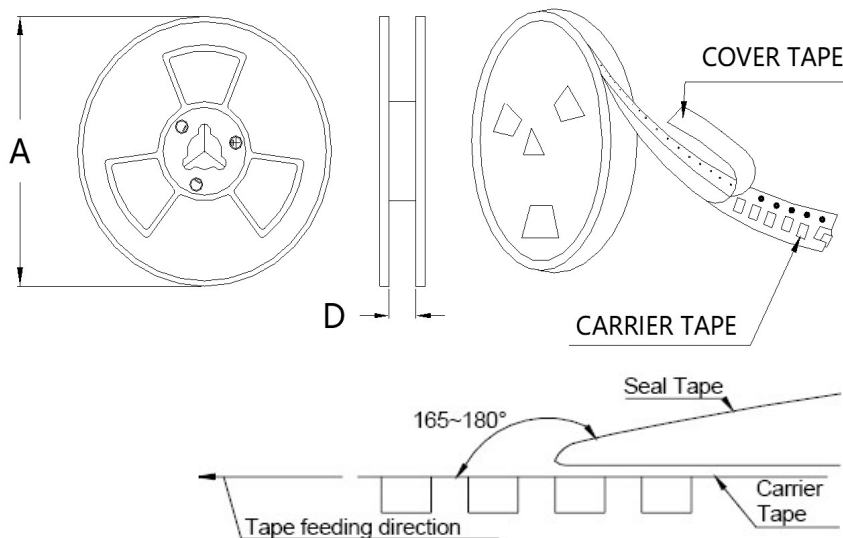
4.PACKAGING(unit: mm)

1.包装类型

2.包装尺寸

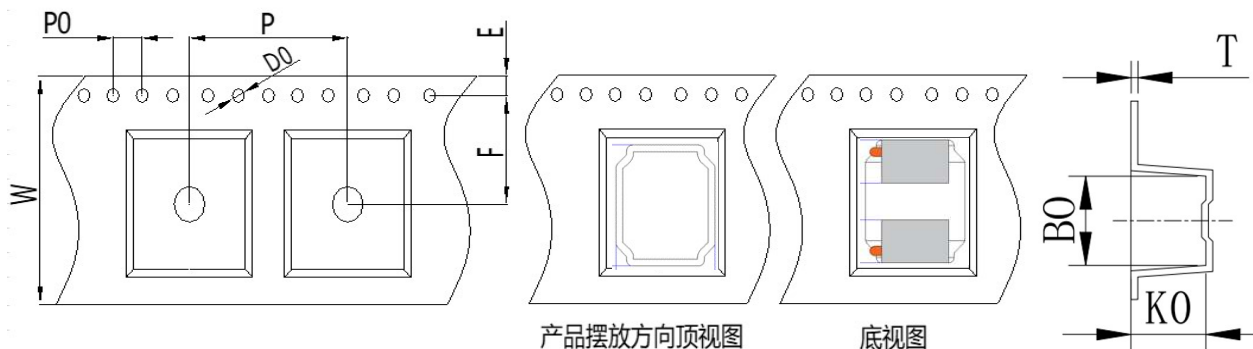
13" 盘

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.



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	

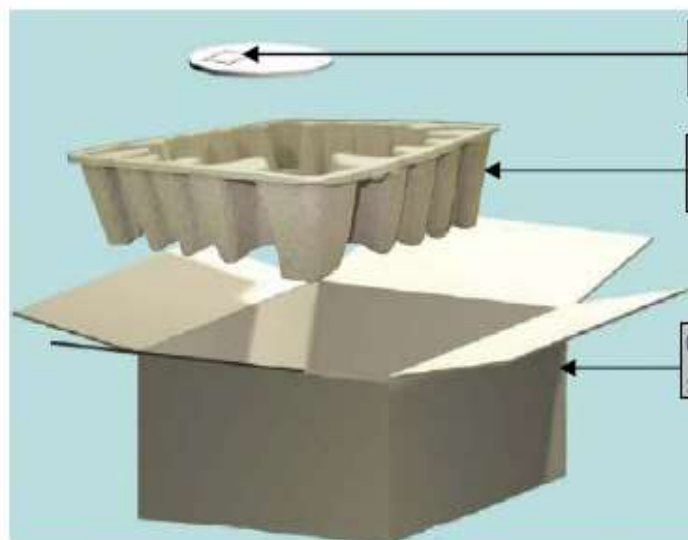
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5. CARTON



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

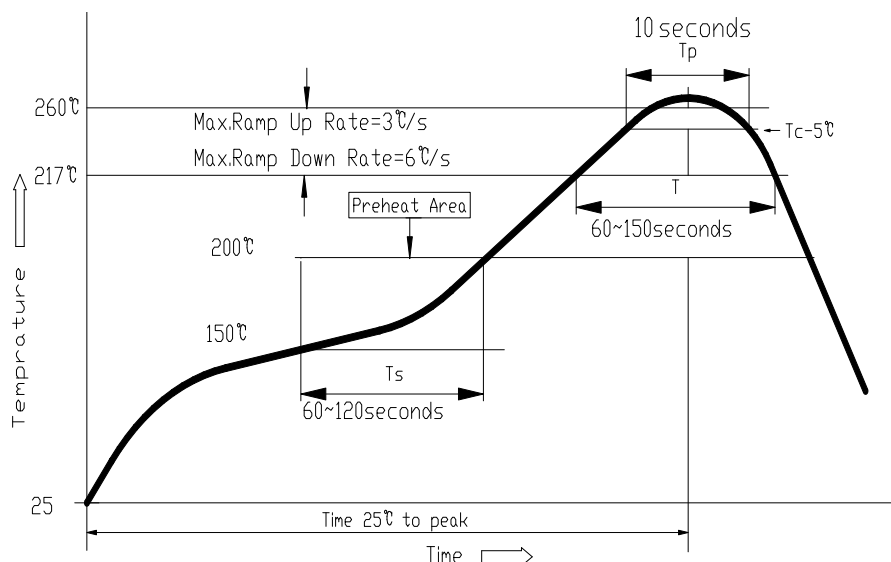
Applicable soldering process to the products is refl.

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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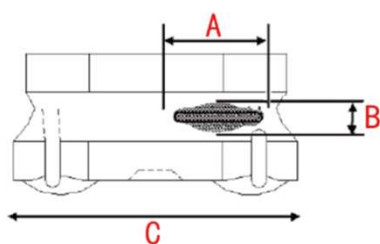


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8.Appearance of the standard

1.Void appearance tolerance limit



Size of voids occurring to coating resin is specified below.

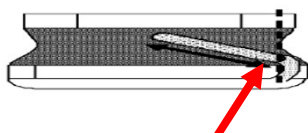
①Width direction(dimension A): Acceptable when $A \leq C/2$

Nonconforming when $B \geq C/2$

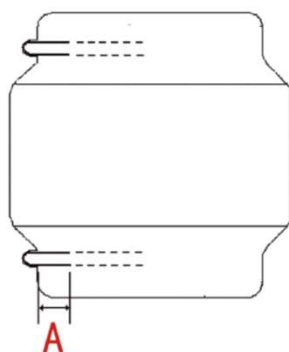
②Length direction(dimension B):Dimension b is not specified

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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CUSTOMER'S P/N

JINKAI P/N: CKNRS252010Z-R24YC

PART NO. CKNRS252010Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

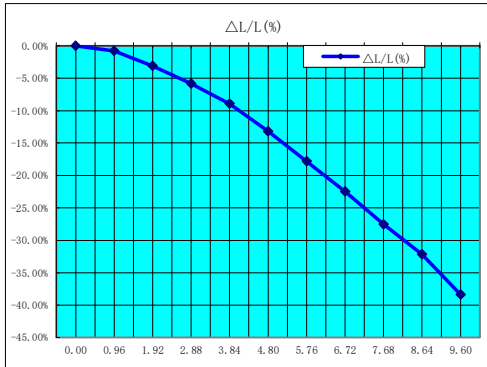
DATE 2025/3/28

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%	32 Max.	6.70 Max.	ΔL/L≤-30%	4.00 ΔT≤40℃ ℃				上限 2.8 下限 2.4	2.3 1.9	1.05 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	0.252	22.1	0.220	-12.70%	OK				2.62	2.10	1.00
2	0.248	22.8	0.206	-16.94%	OK				2.63	2.12	1.01
3	0.253	23.4	0.213	-15.81%	OK				2.60	2.11	1.01
4	0.262	21.8	0.208	-20.61%	OK				2.65	2.11	0.99
5	0.253	23.4	0.214	-15.42%	OK				2.62	2.14	0.98
6	0.249	22.1	0.213	-14.46%	OK				2.61	2.15	0.99
7	0.260	24.0	0.206	-20.77%	OK				2.65	2.11	0.99
8	0.265	23.2	0.211	-20.38%	OK				2.66	2.11	1.00
9	0.261	23.6	0.209	-19.92%	OK				2.65	2.12	0.98
10	0.250	23.5	0.206	-17.60%	OK				2.63	2.14	0.99
AVG.	0.255	22.99	0.2106	-17.46%					2.632	2.121	0.994
R	0.017	2.2	0.014	8.07%					0.06	0.05	0.03

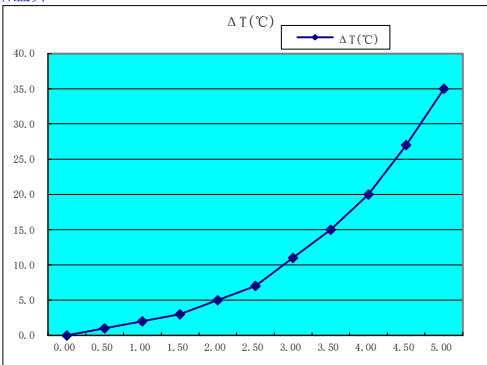
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	0.258	0.00%
1	0.96	0.256	-0.78%
1	1.92	0.250	-3.10%
1	2.88	0.243	-5.81%
1	3.84	0.235	-8.91%
1	4.80	0.224	-13.18%
1	5.76	0.212	-17.83%
1	6.72	0.200	-22.48%
1	7.68	0.187	-27.52%
1	8.64	0.175	-32.17%
1	9.60	0.159	-38.37%



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TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	0.250	0.00%	22.0	0.0
30	0.50	0.250	0.00%	23.0	1.0
30	1.00	0.249	-0.40%	24.0	2.0
30	1.50	0.247	-1.20%	25.0	3.0
30	2.00	0.245	-2.00%	27.0	5.0
30	2.50	0.242	-3.20%	29.0	7.0
30	3.00	0.239	-4.40%	33.0	11.0
30	3.50	0.236	-5.60%	37.0	15.0
30	4.00	0.233	-6.80%	42.0	20.0
30	4.50	0.229	-8.40%	49.0	27.0
30	5.00	0.224	-10.40%	57.0	35.0



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JINKAI P/N: CKNRS252010Z-R33YC

PART NO. CKNRS252010Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25°C

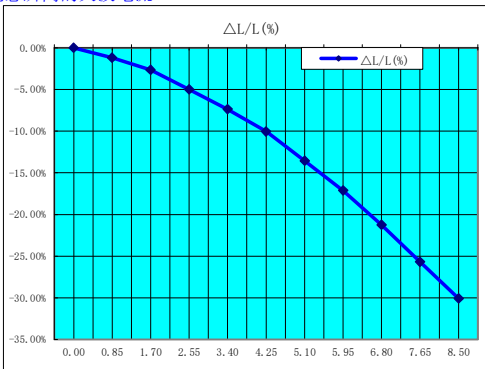
DATE 2025/3/28

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION						DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				
SPEC.	0.33 ± 30%	39 Max.	5.30 Max.	ΔL/L≤-30%	3.85 ΔT≤40°C °C			上限 下限	2.8 2.4 2.3 1.9 1.10 MAX
TEST FREQ.	100KHz/1V		100KHz/1V						
1	0.35	27.6	0.305	-12.86%	OK				2.62 2.10 1.02
2	0.36	26.2	0.310	-12.68%	OK				2.63 2.12 1.03
3	0.35	26.1	0.304	-14.12%	OK				2.60 2.11 1.00
4	0.34	26.8	0.294	-13.02%	OK				2.65 2.11 1.02
5	0.33	25.1	0.286	-13.60%	OK				2.62 2.14 1.03
6	0.34	26.5	0.282	-16.32%	OK				2.61 2.15 1.02
7	0.34	26.8	0.283	-15.52%	OK				2.65 2.11 1.03
8	0.34	27.0	0.284	-15.98%	OK				2.66 2.11 1.04
9	0.33	26.5	0.279	-15.45%	OK				2.65 2.12 1.03
10	0.36	26.6	0.305	-14.08%	OK				2.63 2.14 1.05
AVG.	0.342	26.52	0.2932	-14.36%					2.632 2.121 1.027
R	0.025	2.5	0.031	3.64%					0.06 0.05 0.05

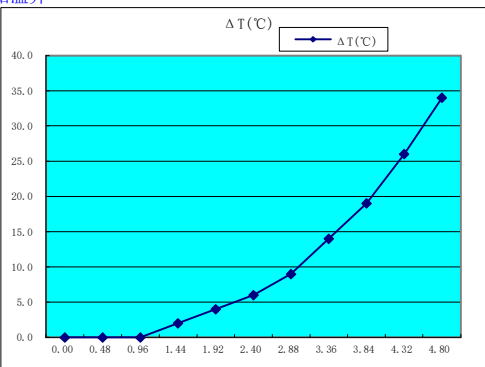
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	0.339	0.00%
1	0.85	0.335	-1.18%
1	1.70	0.330	-2.65%
1	2.55	0.322	-5.01%
1	3.40	0.314	-7.37%
1	4.25	0.305	-10.03%
1	5.10	0.293	-13.57%
1	5.95	0.281	-17.11%
1	6.80	0.267	-21.24%
1	7.65	0.252	-25.66%
1	8.50	0.237	-30.09%



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TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(°C)	ΔT(°C)
30	0.00	0.343	0.00%	24.0	0.0
30	0.48	0.341	-0.58%	24.0	0.0
30	0.96	0.339	-1.17%	24.0	0.0
30	1.44	0.337	-1.75%	26.0	2.0
30	1.92	0.334	-2.62%	28.0	4.0
30	2.40	0.329	-4.08%	30.0	6.0
30	2.88	0.325	-5.25%	33.0	9.0
30	3.36	0.320	-6.71%	38.0	14.0
30	3.84	0.316	-7.87%	43.0	19.0
30	4.32	0.310	-9.62%	50.0	26.0
30	4.80	0.304	-11.37%	58.0	34.0



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DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

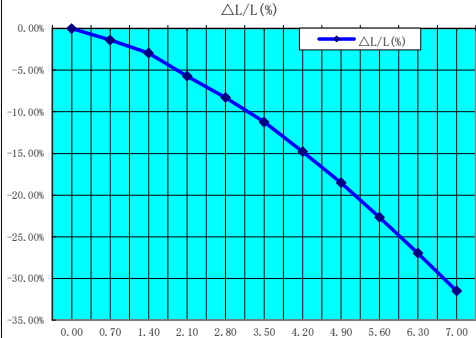
DATE 2025/3/28

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%	47 Max.	4.90 Max.	ΔL/L≤-30%	3.20 ΔT≤40℃ ℃			上限 2.8 下限 2.4	2.3 1.9	1.05 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	0.461	36.7	0.420	-8.89%	OK			2.62	2.10	0.99
2	0.501	34.4	0.426	-14.97%	OK			2.63	2.12	0.99
3	0.492	36.0	0.417	-15.24%	OK			2.60	2.11	0.98
4	0.482	36.1	0.411	-14.73%	OK			2.65	2.11	0.98
5	0.503	37.8	0.396	-21.27%	OK			2.62	2.14	0.99
6	0.482	36.1	0.412	-14.52%	OK			2.61	2.15	0.98
7	0.503	36.2	0.423	-15.90%	OK			2.65	2.11	0.99
8	0.487	36.5	0.397	-18.48%	OK			2.66	2.11	1.00
9	0.482	36.6	0.415	-13.90%	OK			2.65	2.12	1.01
10	0.473	36.8	0.423	-10.57%	OK			2.63	2.14	0.99
AVG.	0.487	36.32	0.414	-14.85%				2.632	2.121	0.99
R	0.042	3.4	0.03	12.38%				0.06	0.05	0.03

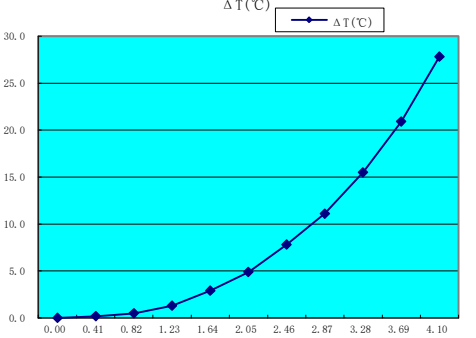
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	0.508	0.00%
1	0.70	0.501	-1.38%
1	1.40	0.493	-2.95%
1	2.10	0.479	-5.71%
1	2.80	0.466	-8.27%
1	3.50	0.451	-11.22%
1	4.20	0.433	-14.76%
1	4.90	0.414	-18.50%
1	5.60	0.393	-22.64%
1	6.30	0.371	-26.97%
1	7.00	0.348	-31.50%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	0.475	0.00%	29.8	0.0
30	0.41	0.473	-0.42%	30.0	0.2
30	0.82	0.471	-0.84%	30.3	0.5
30	1.23	0.467	-1.68%	31.1	1.3
30	1.64	0.461	-2.95%	32.7	2.9
30	2.05	0.451	-5.05%	34.7	4.9
30	2.46	0.445	-6.32%	37.6	7.8
30	2.87	0.438	-7.79%	40.9	11.1
30	3.28	0.430	-9.47%	45.3	15.5
30	3.69	0.421	-11.37%	50.7	20.9
30	4.10	0.412	-13.26%	57.6	27.8



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNRS252010Z-R68YC

PART NO. CKNRS252010Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

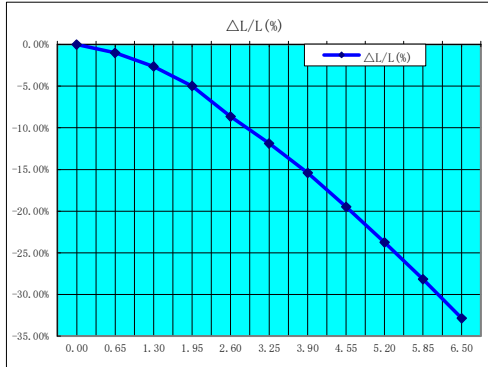
DATE 2025/3/28

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.	0.68 ± 30%	59 Max.	3.60 Max.	ΔL/L≤-30%	2.80 ΔT≤40℃ ℃		上限 下限	2.8 2.4	2.3 1.9 1.05 MAX
TEST FREQ.	100KHz/1V		100KHz/1V						
1	0.671	41.3	0.587	-12.52%	OK			2.62	2.10 0.97
2	0.684	43.0	0.597	-12.72%	OK			2.63	2.12 0.98
3	0.670	42.8	0.579	-13.58%	OK			2.60	2.11 0.99
4	0.667	42.1	0.609	-8.70%	OK			2.65	2.11 0.98
5	0.697	41.8	0.598	-14.20%	OK			2.62	2.14 0.98
6	0.667	43.1	0.586	-12.14%	OK			2.61	2.15 0.99
7	0.700	43.0	0.581	-17.00%	OK			2.65	2.11 1.01
8	0.681	42.8	0.601	-11.75%	OK			2.66	2.11 1.00
9	0.672	42.8	0.584	-13.10%	OK			2.65	2.12 0.99
10	0.702	43.0	0.601	-14.39%	OK			2.63	2.14 0.99
AVG.	0.681	42.57	0.5923	-13.01%				2.632	2.121 0.988
R	0.035	1.8	0.03	8.30%				0.06	0.05 0.04

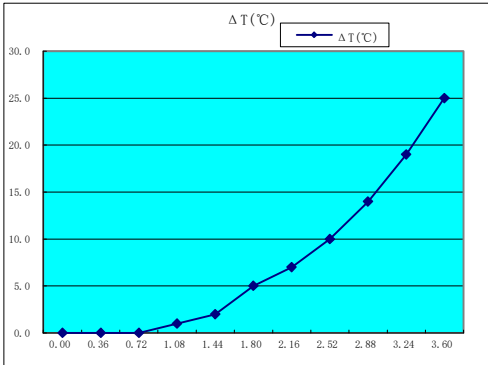
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	0.682	0.00%
1	0.65	0.675	-1.03%
1	1.30	0.664	-2.64%
1	1.95	0.648	-4.99%
1	2.60	0.623	-8.65%
1	3.25	0.601	-11.88%
1	3.90	0.577	-15.40%
1	4.55	0.549	-19.50%
1	5.20	0.520	-23.75%
1	5.85	0.490	-28.15%
1	6.50	0.458	-32.84%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	0.666	0.00%	25.0	0.0
30	0.36	0.664	-0.30%	25.0	0.0
30	0.72	0.660	-0.90%	25.0	0.0
30	1.08	0.652	-2.10%	26.0	1.0
30	1.44	0.644	-3.30%	27.0	2.0
30	1.80	0.633	-4.95%	30.0	5.0
30	2.16	0.620	-6.91%	32.0	7.0
30	2.52	0.608	-8.71%	35.0	10.0
30	2.88	0.596	-10.51%	39.0	14.0
30	3.24	0.582	-12.61%	44.0	19.0
30	3.60	0.569	-14.56%	50.0	25.0



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNRS252010Z-1R0YC

PART NO. CKNRS252010Z Series

DRAWN NO.

TEST R.H. 80~85%

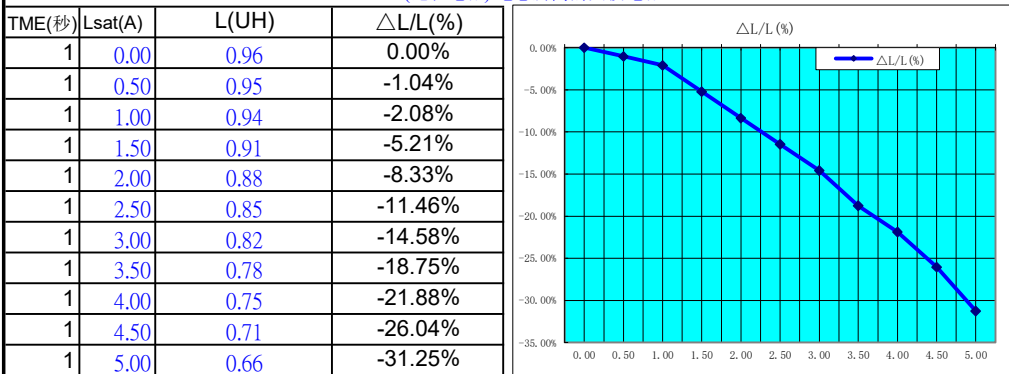
TEST TEMP. 20~25℃

DATE 2025/3/28

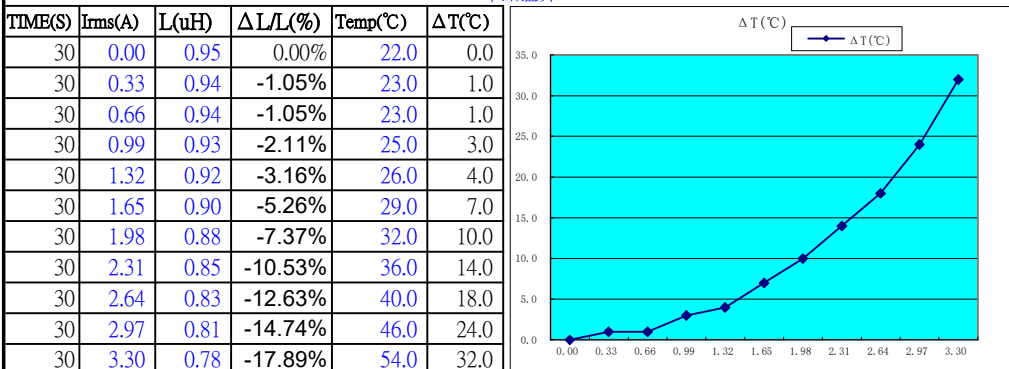
TEST DATA FOR PREPRODUCTION SAMPLE

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%	76 Max.	3.20 Max.	ΔL/L≤-30%	2.50 ΔT≤40℃ ℃			上限 下限	2.8 2.4	2.3 1.9	1.05 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	0.96	53.6	0.80	-16.67%	OK				2.62	2.10	0.98
2	0.97	57.6	0.82	-15.46%	OK				2.63	2.12	0.99
3	0.96	57.1	0.81	-15.63%	OK				2.60	2.11	1.01
4	0.95	56.9	0.81	-14.74%	OK				2.65	2.11	0.98
5	0.97	55.9	0.81	-16.49%	OK				2.62	2.14	0.99
6	0.99	56.2	0.82	-17.17%	OK				2.61	2.15	1.00
7	0.96	58.1	0.85	-11.46%	OK				2.65	2.11	0.98
8	0.96	57.4	0.82	-14.58%	OK				2.66	2.11	0.99
9	0.96	55.4	0.84	-12.50%	OK				2.65	2.12	0.98
10	0.96	56.0	0.81	-15.63%	OK				2.63	2.14	0.99
AVG.	0.964	56.42	0.819	-15.03%					2.632	2.121	0.989
R	0.04	4.5	0.05	5.71%					0.06	0.05	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: CKNRS252010Z-1R5YC

PART NO. CKNRS252010Z Series

DRAWN NO.

TEST R.H. 80~85%

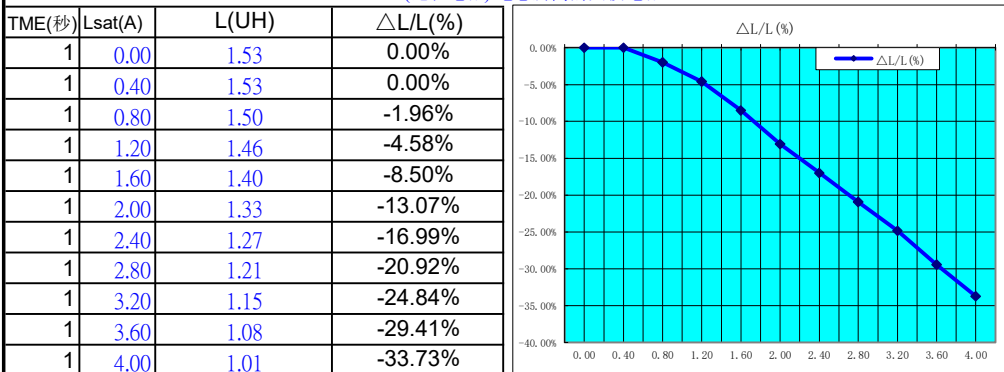
TEST TEMP. 20~25℃

DATE 2025/3/28

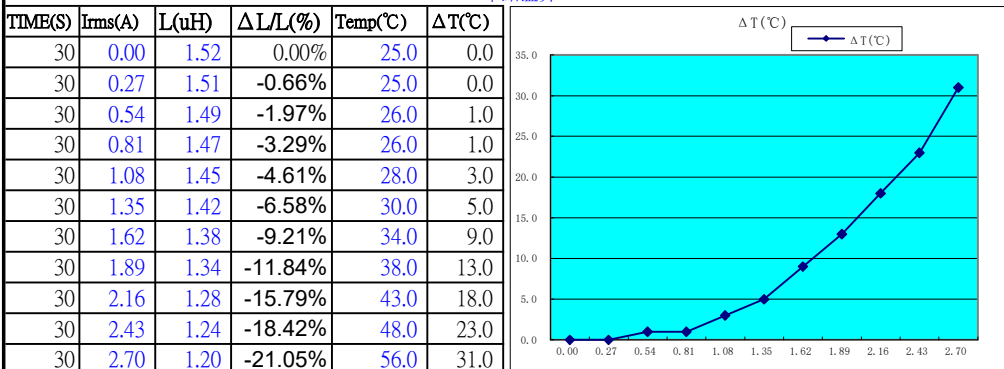
TEST DATA FOR PREPRODUCTION SAMPLE

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%	116 Max.	2.70 Max.	△L/L≤-30%	2.10 △T≤40℃ ℃				上限 2.8 下限 2.4	2.3 1.9	1.05 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	1.40	93.5	1.14	-18.57%	OK				2.62	2.10	0.96
2	1.45	89.7	1.19	-17.93%	OK				2.63	2.12	0.98
3	1.50	90.8	1.21	-19.33%	OK				2.60	2.11	0.99
4	1.53	89.7	1.20	-21.57%	OK				2.65	2.11	0.98
5	1.50	90.5	1.22	-18.67%	OK				2.62	2.14	0.98
6	1.52	91.3	1.20	-21.05%	OK				2.61	2.15	0.94
7	1.54	90.5	1.18	-23.38%	OK				2.65	2.11	0.97
8	1.51	92.5	1.13	-25.17%	OK				2.66	2.11	0.97
9	1.46	90.6	1.21	-17.12%	OK				2.65	2.12	0.96
10	1.41	95.6	1.11	-21.28%	OK				2.63	2.14	0.96
AVG.	1.482	91.47	1.179	-20.41%					2.632	2.121	0.969
R	0.14	5.9	0.11	8.04%					0.06	0.05	0.05

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: CKNRS252010Z-2R2MC

PART NO. CKNRS252010Z Series

DRAWN NO.

TEST R.H. 80~85%

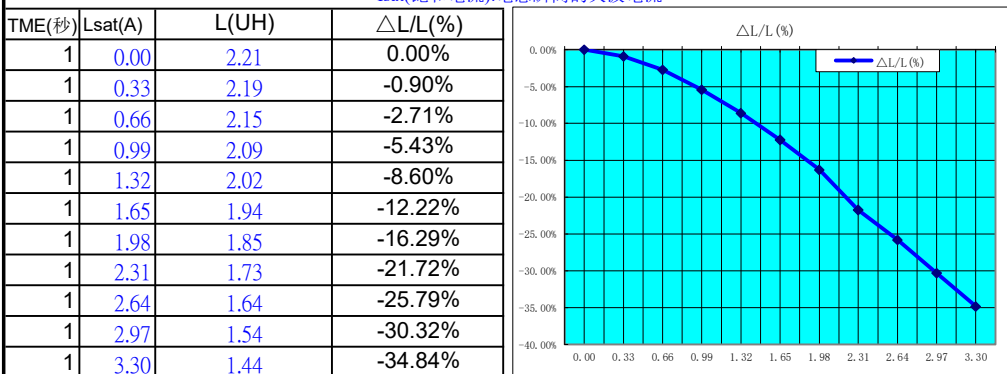
TEST TEMP. 20~25℃

DATE 2025/3/28

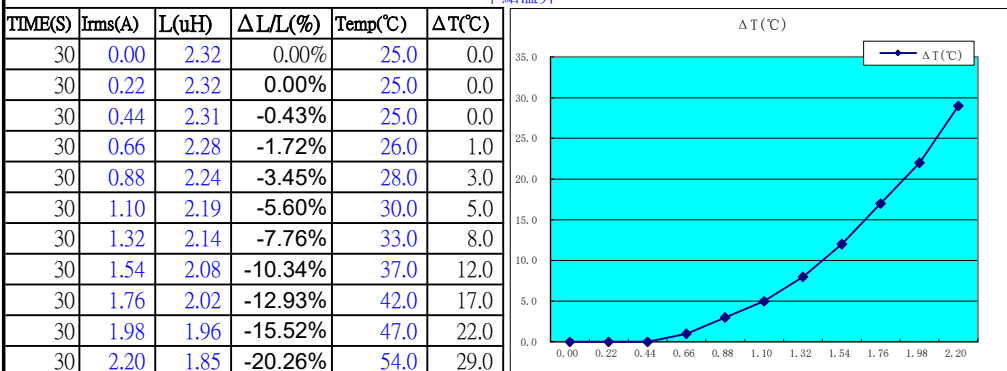
TEST DATA FOR PREPRODUCTION SAMPLE

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%	158 Max.	2.00 Max.	ΔL/L≤-30%	1.60 ΔT≤40℃ ℃				上限 2.8 下限 2.4	2.3 1.9	1.05 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	2.33	129	1.96	-15.88%	OK				2.62	2.10	0.96
2	2.23	128	1.82	-18.39%	OK				2.63	2.12	0.98
3	2.22	127	1.85	-16.67%	OK				2.60	2.11	0.99
4	2.12	128	1.78	-16.04%	OK				2.65	2.11	0.98
5	2.20	126	1.87	-15.00%	OK				2.62	2.14	0.98
6	2.21	128	1.75	-20.81%	OK				2.61	2.15	0.94
7	2.33	127	1.82	-21.89%	OK				2.65	2.11	0.97
8	2.23	129	1.80	-19.28%	OK				2.66	2.11	0.97
9	2.28	130	1.82	-20.18%	OK				2.65	2.12	0.96
10	2.20	132	1.82	-17.27%	OK				2.63	2.14	0.96
AVG.	2.235	128.4	1.829	-18.14%					2.632	2.121	0.969
R	0.21	6	0.21	6.89%					0.06	0.05	0.05

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: CKNRS252010Z-3R3MC

PART NO. CKNRS252010Z Series

DRAWN NO.

TEST R.H. 80~85%

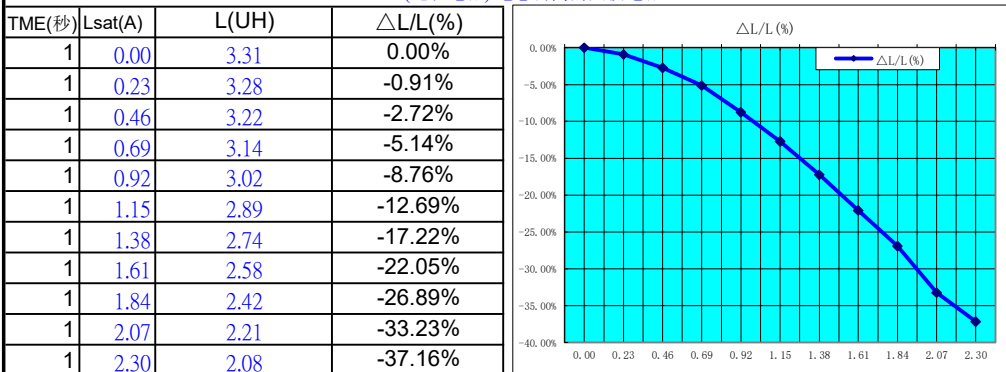
TEST TEMP. 20~25℃

DATE 2025/3/28

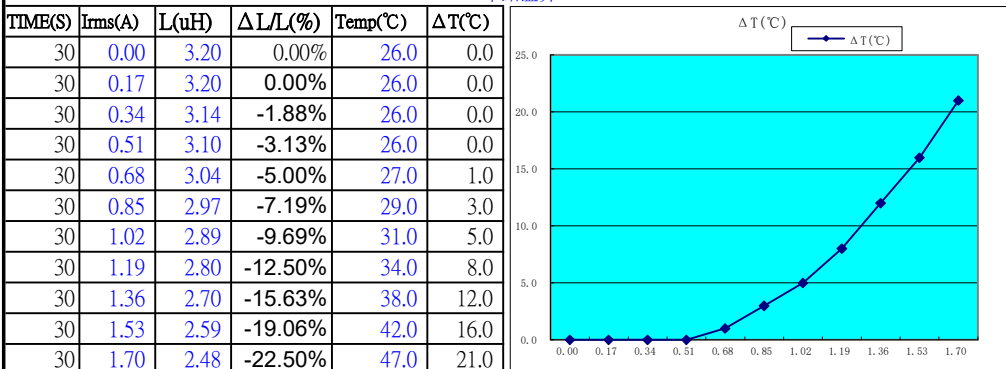
TEST DATA FOR PREPRODUCTION SAMPLE

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%	245 Max.	1.60 Max.	ΔL/L≤-30%	1.20 ΔT≤40℃ ℃				上限 下限	2.8 2.4	2.3 1.9 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	3.31	188	2.69	-18.7%	OK				2.62	2.10	0.96
2	3.12	193	2.52	-19.2%	OK				2.63	2.12	0.98
3	3.19	188	2.59	-18.8%	OK				2.60	2.11	0.99
4	3.26	190	2.63	-19.3%	OK				2.65	2.11	0.98
5	3.10	193	2.51	-19.0%	OK				2.62	2.14	0.98
6	3.31	190	2.68	-19.0%	OK				2.61	2.15	0.94
7	3.11	191	2.51	-19.3%	OK				2.65	2.11	0.97
8	3.19	192	2.58	-19.1%	OK				2.66	2.11	0.97
9	3.27	200	2.63	-19.6%	OK				2.65	2.12	0.96
10	3.11	195	2.51	-19.3%	OK				2.63	2.14	0.96
AVG.	3.197	192	2.585	-19.14%					2.632	2.121	0.969
R	0.21	12	0.18	0.84%					0.06	0.05	0.05

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: CKNRS252010Z-4R7MC

PART NO. CKNRS252010Z Series

DRAWN NO.

TEST R.H. 80~85%

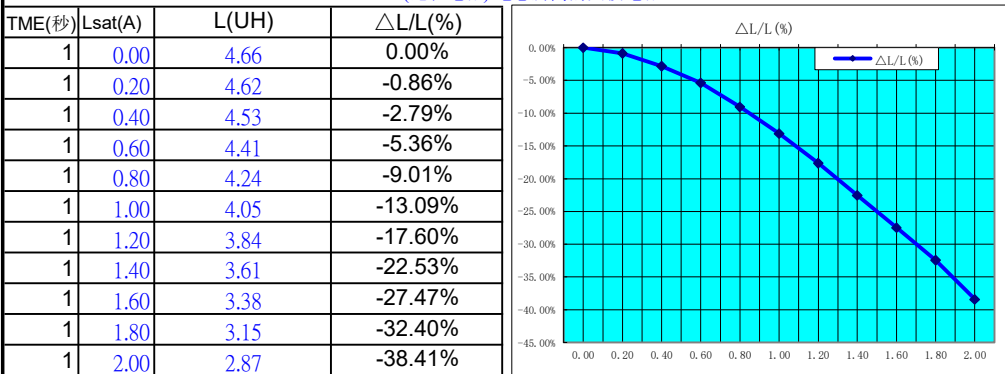
TEST TEMP. 20~25℃

DATE 2025/3/28

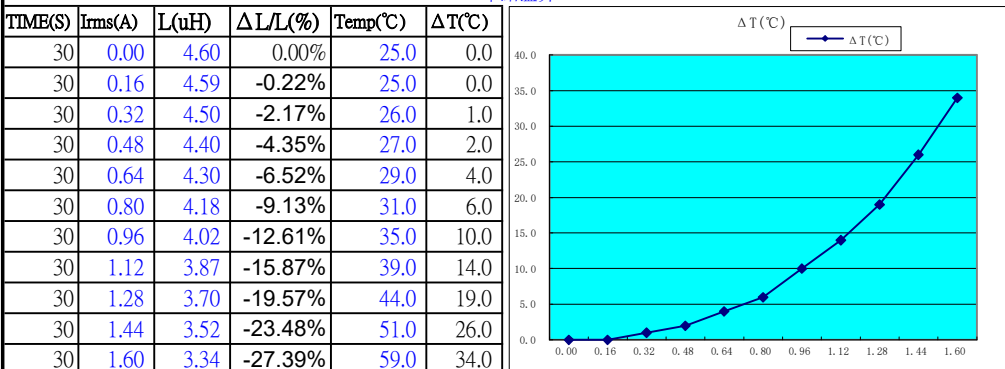
TEST DATA FOR PREPRODUCTION SAMPLE

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%	320 Max.	1.30 Max.	ΔL/L≤-30%	1.10 ΔT≤40℃ ℃				上限 2.8 下限 2.4	2.3 1.9	1.05 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	4.60	241	3.67	-20.22%	OK				2.62	2.10	0.96
2	4.88	249	3.90	-20.08%	OK				2.63	2.12	0.98
3	4.66	240	3.73	-19.96%	OK				2.60	2.11	0.99
4	4.71	243	3.73	-20.81%	OK				2.65	2.11	0.98
5	4.64	240	3.69	-20.47%	OK				2.62	2.14	0.98
6	4.60	251	3.65	-20.65%	OK				2.61	2.15	0.94
7	4.89	240	3.70	-24.34%	OK				2.65	2.11	0.97
8	4.72	245	3.65	-22.67%	OK				2.66	2.11	0.97
9	4.70	240	3.64	-22.55%	OK				2.65	2.12	0.96
10	4.59	242	3.72	-18.95%	OK				2.63	2.14	0.96
AVG.	4.699	243.1	3.708	-21.07%					2.632	2.121	0.969
R	0.3	11	0.26	5.38%					0.06	0.05	0.05

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: CKNRS252010Z-6R8MC

PART NO. CKNRS252010Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

DATE 2025/3/28

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%	420 Max.	1.00 Max.	ΔL/L≤-30%	0.90 ΔT≤40℃ ℃			上限 下限	長 mm 寬 mm 高 mm
TEST FREQ.	100KHz/1V		100KHz/1V						
1	6.93	338	5.62	-18.90%	OK			2.62	2.10
2	6.58	339	5.33	-19.00%	OK			2.63	2.12
3	6.66	338	5.35	-19.67%	OK			2.60	2.11
4	6.60	336	5.32	-19.39%	OK			2.65	2.11
5	6.93	342	5.29	-23.67%	OK			2.62	2.14
6	6.60	345	5.12	-22.42%	OK			2.61	2.15
7	6.94	341	5.36	-22.77%	OK			2.65	2.11
8	6.64	346	5.12	-22.89%	OK			2.66	2.11
9	6.95	344	5.36	-22.88%	OK			2.65	2.12
10	6.59	345	5.12	-22.31%	OK			2.63	2.14
AVG.	6.742	341.4	5.299	-21.39%				2.632	2.121
R	0.37	10	0.5	4.76%				0.06	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	6.62	0.00%
1	0.15	6.54	-1.22%
1	0.30	6.37	-3.79%
1	0.45	6.22	-6.06%
1	0.60	6.02	-9.08%
1	0.75	5.77	-12.85%
1	0.90	5.50	-16.93%
1	1.05	5.20	-21.46%
1	1.20	4.90	-25.99%
1	1.35	4.59	-30.68%
1	1.50	4.29	-35.21%

單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	6.58	0.00%	23.0	0.0
30	0.13	6.56	-0.30%	23.0	0.0
30	0.26	6.39	-2.89%	24.0	1.0
30	0.39	6.27	-4.71%	26.0	3.0
30	0.52	6.11	-7.14%	28.0	5.0
30	0.65	5.92	-10.03%	30.0	7.0
30	0.78	5.69	-13.53%	34.0	11.0
30	0.91	5.44	-17.33%	38.0	15.0
30	1.04	5.18	-21.28%	43.0	20.0
30	1.17	4.91	-25.38%	50.0	27.0
30	1.30	4.64	-29.48%	58.0	35.0

承认书



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNRS252010Z-100MC

PART NO. CKNRS252010Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

DATE 2025/3/28

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION						DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				
SPEC.	10.0 ± 20%	650 Max.	0.90 Max.	ΔL/L≤-30%	0.80 ΔT≤40℃ ℃				
TEST FREQ.	100KHz/1V		100KHz/1V						
1	10.0	541	7.77	-22.30%	OK			2.62	2.10
2	9.82	533	7.66	-22.00%	OK			2.63	2.12
3	10.2	534	7.80	-23.53%	OK			2.60	2.11
4	10.0	539	7.74	-22.60%	OK			2.65	2.11
5	10.1	531	7.74	-23.37%	OK			2.62	2.14
6	10.0	536	7.75	-22.50%	OK			2.61	2.15
7	10.1	530	7.68	-23.96%	OK			2.65	2.11
8	10.1	528	7.72	-23.56%	OK			2.66	2.11
9	9.87	526	7.69	-22.09%	OK			2.65	2.12
10	10.1	514	7.64	-24.36%	OK			2.63	2.14
AVG.	10.029	531.2	7.719	-23.03%				2.632	2.121
R	0.38	27	0.16	2.36%				0.06	0.05

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	10.2	0.00%
1	0.12	10.0	-1.96%
1	0.24	9.82	-3.73%
1	0.36	9.57	-6.18%
1	0.48	9.25	-9.31%
1	0.60	8.86	-13.14%
1	0.72	8.41	-17.55%
1	0.84	7.94	-22.16%
1	0.96	7.45	-26.96%
1	1.08	6.97	-31.67%
1	1.20	6.50	-36.27%

單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	10.0	0.00%	26.0	0.0
30	0.12	10.0	0.00%	26.0	0.0
30	0.24	9.72	-2.80%	27.0	1.0
30	0.36	9.49	-5.10%	28.0	2.0
30	0.48	9.17	-8.30%	31.0	5.0
30	0.60	8.79	-12.10%	35.0	9.0
30	0.72	8.35	-16.50%	40.0	14.0
30	0.84	7.88	-21.20%	47.0	21.0
30	0.96	7.40	-26.00%	55.0	29.0
30	1.08	6.93	-30.70%	65.0	39.0
30	1.20	6.47	-35.30%	78.0	52.0

承认书

