

承 认 书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	18/Mar/2025	REVISION NO.	A
PART NO.	CKNR6020Z Series		
DRAWN NO.			
DESCRIPTION.	SMD POWER INDUCTOR		
Customer's Signature			
Approved by	Checked by	Drawn by	
黄大燕	黄大燕	林树英	
18/Mar/2025	18/Mar/2025	18/Mar/2025	



广东今凯电子科技有限公司

GUANG DONG CHK ELECTRONIC TECH Co., Ltd

广东省佛山市顺德区北滘万洋科创园二区3栋

Building 3, District 2, Beijiao Wanyang Science and Technology
Innovation Park, Shunde District, Foshan City, Guangdong Province

www.gzchk.com



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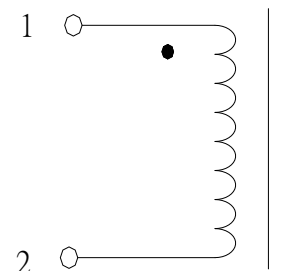
广东今凯电子科技有限公司
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CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 1/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKNR6020Z Series	DATE	2025/3/18

1.SHAPE & DIMENSION

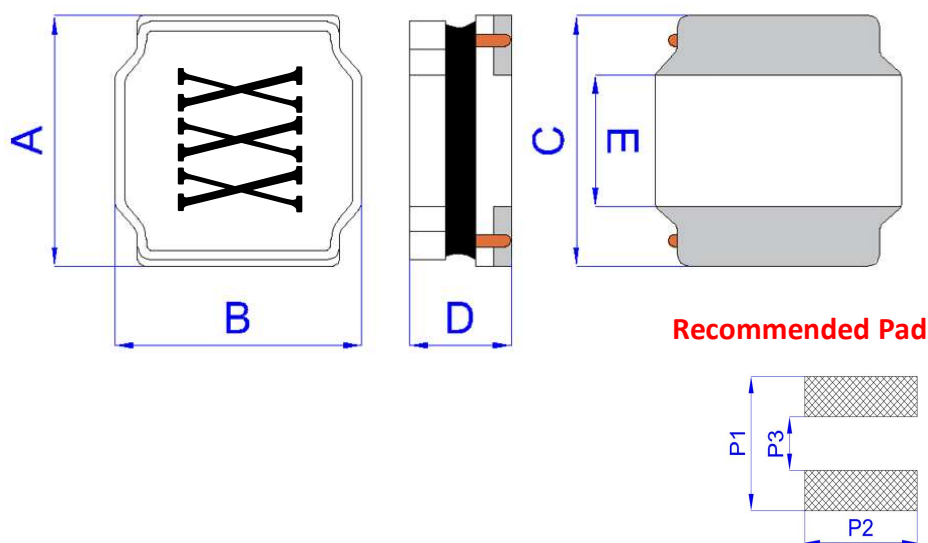
UNIT: mm

SCHEMATICS



MARKING
COLOR

Black



A	B	C	D	E	P1	P2	P3
6	6	6	2	2.3	6.3	5.7	2.8
±0.2	±0.2	±0.2	MAX	Ref.	Ref.	Ref.	Ref.

CK NR 6020 Z - 2R2 M C
1 2 3 4 5 6 7

- CHK PRODUCTION (今凯制造)
- PRODUCT CATEGORY (产品种类) NR-镍锌 NRS-合金
- DIMENSIONS (尺寸规格)
- MAERTIAL TYPE (材料类型)
- INDUCTANCE (电感量)
- TOLERANCE (公差) M:±20% N:±25% Y:±30%
- 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.	CKNR6020Z Series	DATE	2025/3/18

2.SERIES SPECIFICATION

◆NR6020Z Series Specification:

Part Number	Inductance	Test Freq	DCR($m\Omega$)		Saturation Current (A)		Temp. Rise Current (A)	
	(μH)	(Hz)	Max	Typ	Max	Typ	Max	Typ
CKNR6020Z-1R0YC	1.0	100KHz/1V	26	18	6.50	7.30	5.80	7.33
CKNR6020Z-1R5YC	1.5		34	25	6.20	6.70	5.20	6.70
CKNR6020Z-2R2NC	2.2		50	32	5.50	5.90	3.90	5.00
CKNR6020Z-3R3MC	3.3		56	40	3.10	3.60	3.05	3.90
CKNR6020Z-4R7MC	4.7		91	66	3.50	3.80	3.00	3.80
CKNR6020Z-5R6MC	5.6		95	66	2.70	3.10	2.60	3.40
CKNR6020Z-6R8MC	6.8		103	73	2.30	2.70	2.70	3.40
CKNR6020Z-100MC	10		156	120	2.00	2.30	2.30	2.90
CKNR6020Z-150MC	15		210	158	1.60	1.90	1.70	2.10
CKNR6020Z-220MC	22		350	250	1.50	1.65	1.50	1.90
CKNR6020Z-330MC	33		470	385	1.50	1.60	1.30	1.60
CKNR6020Z-470MC	47		730	591	1.15	1.25	1.00	1.30

◆TEST CONDITION

ITEM	TEST CONDITION	TEST INSTRUMENTS
L	100KHz/1V	Microtest 6377
Isat		TH1773+Microtest 6377
Irms		
DCR	25 $\pm$ 5 $^{\circ}$ C	TH2512B

*The operating temperature is 25 $^{\circ}$ C

*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 CKNR6020Z 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)	镍锌 (Nickel-Zinc)	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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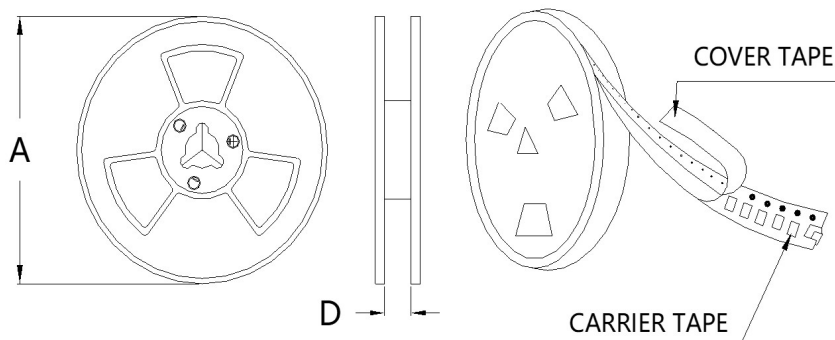
4.PACKAGING(unit: mm)

1.包装类型

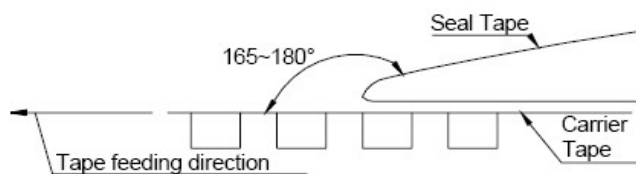
2.包装尺寸

13" 盘

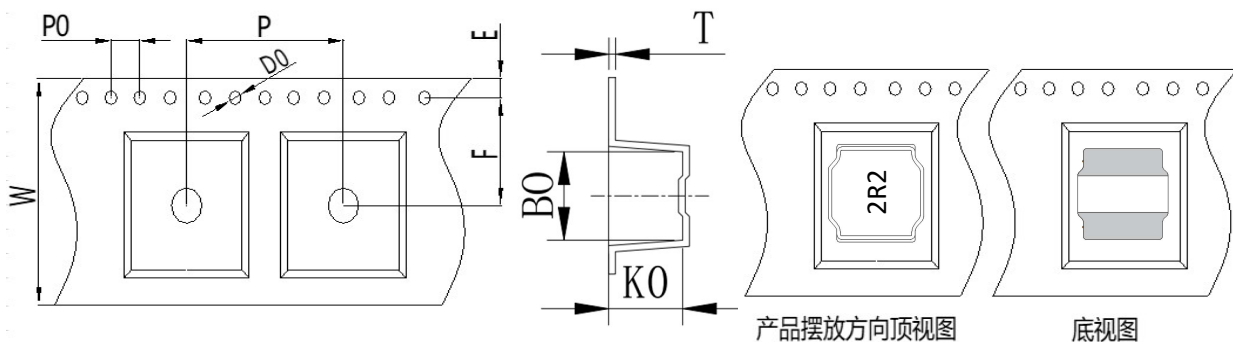
7" 盘



	13" 盘	7" 盘
A	$\Phi 330 \pm 2.0$	$\Phi 178 \pm 2.0$
D	16.4	



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)	16±0.3	6.6±0.1	8.0±0.1	0.3±0.05	1.75±0.1	7.5±0.1	1.5±0.1	4.0±0.1	2.3±0.1	

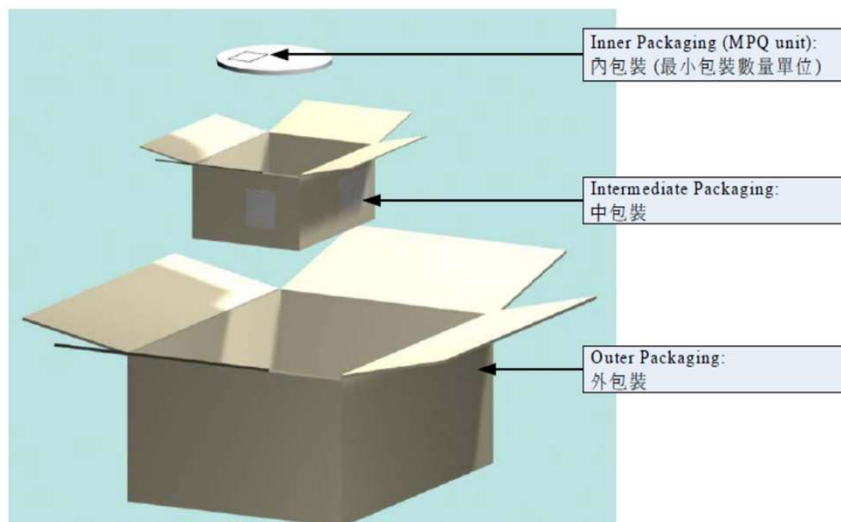
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5. CARTON



- 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4卷制品用一只静电袋包装
- 1.6 每一静电袋内放一只袋干燥剂
- 1.7 每一卷上面依标签样式的要求贴上标签明细
- 1.8 出货内外箱贴上该箱内实际内容明细
(如: 客户有特殊要求时, 则依客户要求实施.)

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: $\leq 70\%$

时间: 六个月

卷轴包装数量

每卷	2500	PCS
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内箱包装数量

每箱	5	卷,共	12500	PCS
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外箱包装数量

每箱	10	卷,共	25000	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 > 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 $\pm 10\%$ 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±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°C, 10±1 sec, 2) 350±10°C, 3.5±0.5 sec	Inductance shall be within $\pm 10\%$ of the initial value. Apperance: No damage

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7. SOLDERING CONDITIONS

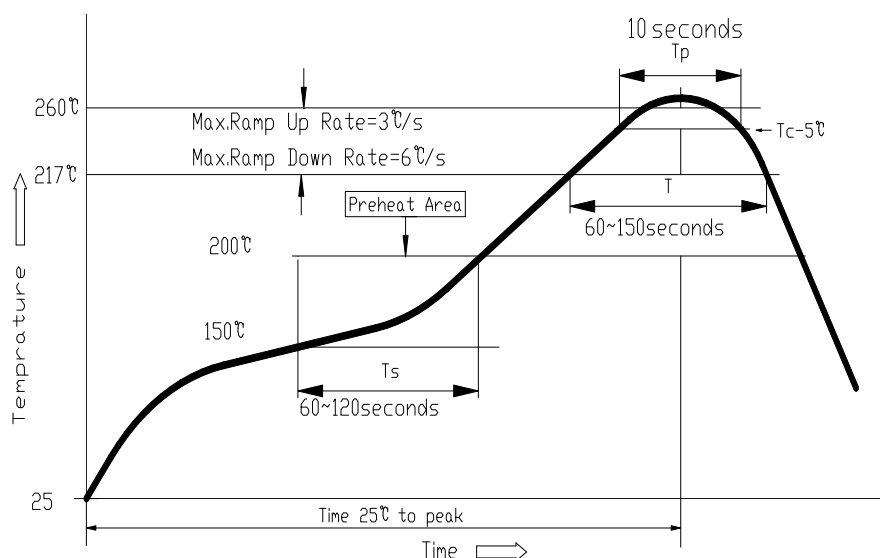
Applicable soldering process to the products is refl.

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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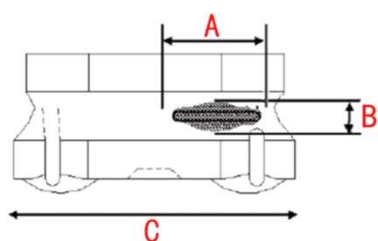


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8.Appearance of the standard

1.Void appearance tolerance limit



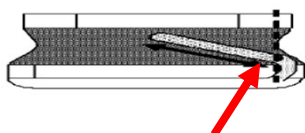
Size of voids occurring to coating resin is specified below.

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

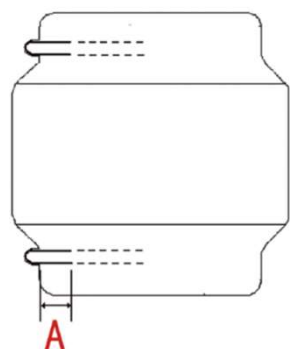
②Length direction(dimension B):Dimension b is not specified

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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JINKAI P/N: CKNR6020Z-1R0YC

PART NO. CKNR6020Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

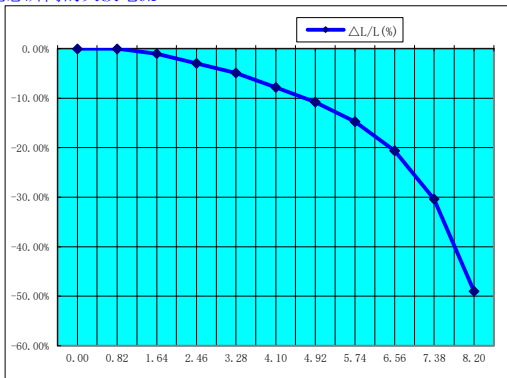
DATE 2025/3/18

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION								DIMENSION (Unit : mm)				
MEAS. ITEM	L μh	DCR mΩ	Isat A	△L/L	Irms A				長 mm	寬 mm	高 mm	
SPEC.	1.00	26	4.15	△L/L≤-30%	3.25				上限	6.2	6.2	2.0
	± 30%	Max.	Max.		△T≤40℃ ℃				下限	5.8	5.8	MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	0.92	18.0	0.86	-6.52%	OK				5.99	5.96	1.86	
2	0.94	18.8	0.87	-7.45%	OK				6.02	5.97	1.84	
3	0.94	17.5	0.88	-6.38%	OK				5.94	5.96	1.84	
4	0.93	18.4	0.87	-6.45%	OK				5.98	5.99	1.85	
5	0.96	17.3	0.90	-6.25%	OK				5.99	5.99	1.86	
6	0.97	17.9	0.90	-7.22%	OK				5.97	6.01	1.89	
7	0.94	18.6	0.90	-4.26%	OK				5.96	5.98	1.83	
8	0.98	17.9	0.89	-9.18%	OK				5.99	5.94	1.90	
9	0.94	18.7	0.90	-4.26%	OK				6.01	5.99	1.89	
10	0.93	18.3	0.91	-2.15%	OK				6.02	6.01	1.89	
AVG.	0.945	18.14	0.888	-6.01%					5.987	5.98	1.865	
R	0.06	1.5	0.05	7.03%					0.08	0.07	0.07	

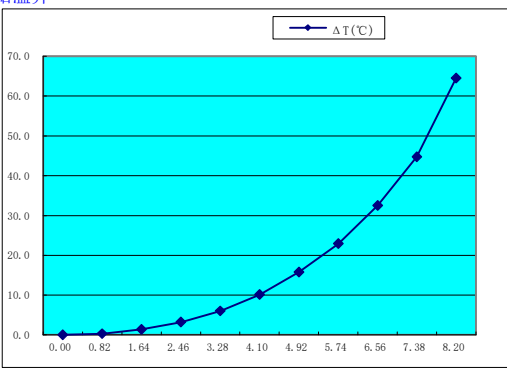
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	1.02	0.00%
1	0.82	1.02	0.00%
1	1.64	1.01	-0.98%
1	2.46	0.99	-2.94%
1	3.28	0.97	-4.90%
1	4.10	0.94	-7.84%
1	4.92	0.91	-10.78%
1	5.74	0.87	-14.71%
1	6.56	0.81	-20.59%
1	7.38	0.71	-30.39%
1	8.20	0.52	-49.02%



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TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	1.00	0.00%	29.0	0.0
30	0.82	1.00	0.00%	29.3	0.3
30	1.64	0.99	-1.00%	30.4	1.4
30	2.46	0.98	-2.00%	32.2	3.2
30	3.28	0.96	-4.00%	35.0	6.0
30	4.10	0.94	-6.00%	39.1	10.1
30	4.92	0.91	-9.00%	44.8	15.8
30	5.74	0.86	-14.00%	51.9	22.9
30	6.56	0.77	-23.00%	61.5	32.5
30	7.38	0.52	-48.00%	73.7	44.7
30	8.20	0.26	-74.00%	93.5	64.5



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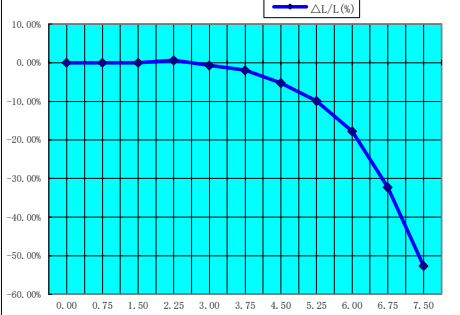
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JINKAI P/N:	CKNR6020Z-1R5YC
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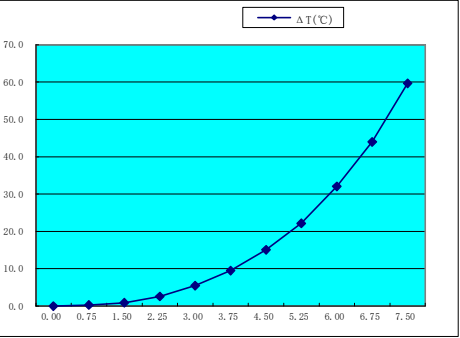
TEST R.H.	80~85%
TEST TEMP.	20~25℃
DATE	2025/3/18

TEST DATA FOR PREPRODUCTION SAMPLE												
TEST RESOLUTION								DIMENSION (Unit : mm)				
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm	
SPEC.	1.5 ± 30%	34 Max.	4.10 Max.	ΔL/L≤-30%	3.10 ΔT≤40℃ ℃				上限 下限	6.2 5.8	6.2 5.8	2.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	1.48	24.0	1.32	-10.81%	OK				5.99	5.96	1.86	
2	1.50	23.9	1.35	-10.00%	OK				6.02	5.97	1.84	
3	1.52	24.5	1.35	-11.18%	OK				5.94	5.96	1.84	
4	1.49	24.9	1.32	-11.41%	OK				5.98	5.99	1.85	
5	1.45	25.2	1.28	-11.72%	OK				5.99	5.99	1.86	
6	1.44	24.8	1.30	-9.72%	OK				5.97	6.01	1.89	
7	1.49	24.5	1.35	-9.40%	OK				5.96	5.98	1.83	
8	1.46	24.4	1.30	-10.96%	OK				5.99	5.94	1.90	
9	1.45	24.9	1.29	-11.03%	OK				6.01	5.99	1.89	
10	1.48	25.2	1.30	-12.16%	OK				6.02	6.01	1.89	
AVG.	1.476	24.63	1.316	-10.84%					5.987	5.98	1.865	
R	0.08	1.3	0.07	2.77%					0.08	0.07	0.07	

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	1.52	0.00%									
1	0.75	1.52	0.00%									
1	1.50	1.52	0.00%									
1	2.25	1.53	0.66%									
1	3.00	1.51	-0.66%									
1	3.75	1.49	-1.97%									
1	4.50	1.44	-5.26%									
1	5.25	1.37	-9.87%									
1	6.00	1.25	-17.76%									
1	6.75	1.03	-32.24%									
1	7.50	0.72	-52.63%									



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TIMB(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)							
30	0.00	1.50	0.00%	24.5	0.0							
30	0.75	1.50	0.00%	24.8	0.3							
30	1.50	1.49	-0.67%	25.4	0.9							
30	2.25	1.42	-5.33%	27.1	2.6							
30	3.00	1.45	-3.33%	30.0	5.5							
30	3.75	1.41	-6.00%	34.0	9.5							
30	4.50	1.36	-9.33%	39.6	15.1							
30	5.25	1.26	-16.00%	46.7	22.2							
30	6.00	1.04	-30.67%	56.6	32.1							
30	6.75	0.61	-59.33%	68.5	44.0							
30	7.50	0.40	-73.33%	84.2	59.7							



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CUSTOMER'S P/N

JINKAI P/N: CKNR6020Z-2R2NC

PART NO. CKNR6020Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

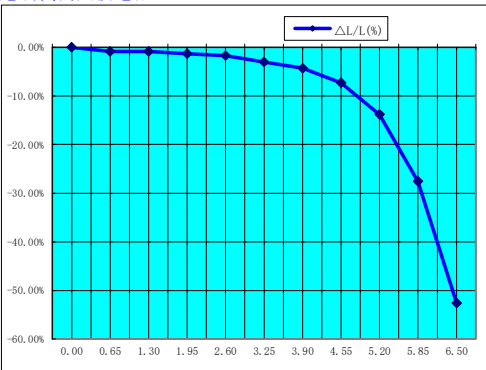
DATE 2025/3/18

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION								DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm
SPEC.	2.2 ± 25%	50 Max.	4.00 Max.	ΔL/L≤-30%	2.80 ΔT≤40℃ ℃				上限 6.2 下限 5.8	6.2 5.8	2.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	2.17	33.3	1.90	-12.44%	OK				5.99	5.96	1.86
2	2.26	35.4	1.95	-13.72%	OK				6.02	5.97	1.84
3	2.29	31.2	1.99	-13.10%	OK				5.94	5.96	1.84
4	2.23	32.7	1.96	-12.11%	OK				5.98	5.99	1.85
5	2.18	32.5	1.92	-11.93%	OK				5.99	5.99	1.86
6	2.27	31.4	1.99	-12.33%	OK				5.97	6.01	1.89
7	2.27	32.4	2.00	-11.89%	OK				5.96	5.98	1.83
8	2.28	32.1	2.00	-12.28%	OK				5.99	5.94	1.90
9	2.29	31.4	2.00	-12.66%	OK				6.01	5.99	1.89
10	2.23	32.5	1.98	-11.21%	OK				6.02	6.01	1.89
AVG.	2.247	32.49	1.969	-12.37%					5.987	5.98	1.865
R	0.12	4.2	0.1	2.51%					0.08	0.07	0.07

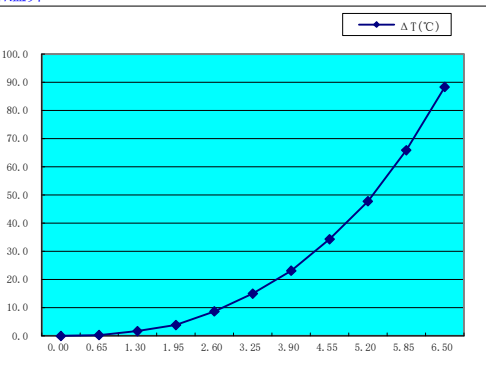
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	2.32	0.00%
1	0.65	2.30	-0.86%
1	1.30	2.30	-0.86%
1	1.95	2.29	-1.29%
1	2.60	2.28	-1.72%
1	3.25	2.25	-3.02%
1	3.90	2.22	-4.31%
1	4.55	2.15	-7.33%
1	5.20	2.00	-13.79%
1	5.85	1.68	-27.59%
1	6.50	1.10	-52.59%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	2.29	0.00%	30.7	0.0
30	0.65	2.30	0.44%	31.0	0.3
30	1.30	2.30	0.44%	32.4	1.7
30	1.95	2.29	0.00%	34.6	3.9
30	2.60	2.28	-0.44%	39.4	8.7
30	3.25	2.27	-0.87%	45.7	15.0
30	3.90	2.23	-2.62%	53.8	23.1
30	4.55	2.14	-6.55%	65.0	34.3
30	5.20	1.84	-19.65%	78.5	47.8
30	5.85	1.07	-53.28%	96.6	65.9
30	6.50	0.66	-71.18%	119	88.3



承 認 書



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR6020Z-3R3MC

PART NO. CKNR6020Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25°C

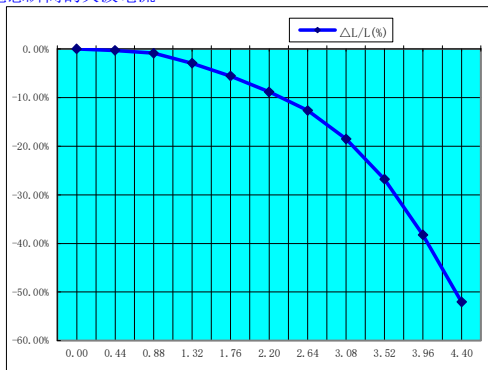
DATE 2025/3/18

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%	56 Max.	3.00 Max.	ΔL/L≤-30%	2.60 ΔT≤40℃ ℃				上限 6.2 下限 5.8	6.2 5.8	2.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	3.07	39.5	2.66	-13.4%	OK				5.99	5.96	1.83
2	3.06	40.5	2.65	-13.4%	OK				6.02	5.97	1.86
3	3.07	40.4	2.69	-12.4%	OK				5.94	5.96	1.81
4	3.00	39.8	2.64	-12.0%	OK				5.98	5.99	1.91
5	3.00	40.4	2.59	-13.7%	OK				5.99	5.99	1.84
6	3.08	39.6	2.63	-14.6%	OK				5.97	6.01	1.84
7	3.05	41.3	2.61	-14.4%	OK				5.96	5.98	1.85
8	2.96	40.0	2.62	-11.5%	OK				5.99	5.94	1.92
9	3.05	40.1	2.63	-13.8%	OK				6.01	5.99	1.92
10	3.04	39.7	2.59	-14.8%	OK				6.02	6.01	1.87
AVG.	3.038	40.13	2.631	-13.39%					5.987	5.98	1.865
R	0.12	1.8	0.1	3.32%					0.08	0.07	0.11

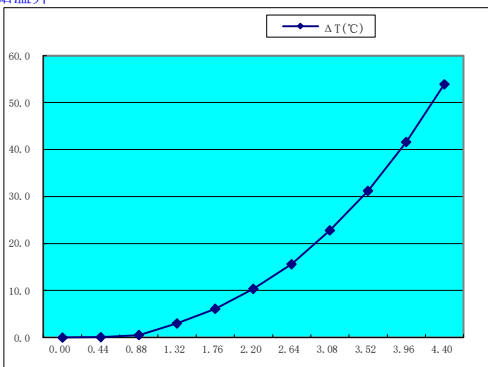
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	3.40	0.00%
1	0.44	3.39	-0.29%
1	0.88	3.37	-0.88%
1	1.32	3.30	-2.94%
1	1.76	3.21	-5.59%
1	2.20	3.10	-8.82%
1	2.64	2.97	-12.65%
1	3.08	2.77	-18.53%
1	3.52	2.49	-26.76%
1	3.96	2.10	-38.24%
1	4.40	1.63	-52.06%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(°C)	ΔT(°C)
30	0.00	3.39	0.00%	28.5	0.0
30	0.44	3.39	0.00%	28.6	0.1
30	0.88	3.35	-1.18%	29.0	0.5
30	1.32	3.28	-3.24%	31.5	3.0
30	1.76	3.19	-5.90%	34.6	6.1
30	2.20	3.07	-9.44%	38.9	10.4
30	2.64	2.90	-14.45%	44.1	15.6
30	3.08	2.63	-22.42%	51.3	22.8
30	3.52	2.19	-35.40%	59.7	31.2
30	3.96	1.53	-54.87%	70.1	41.6
30	4.40	1.00	-70.50%	82.4	53.9



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR6020Z-4R7MC

PART NO. CKNR6020Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25°C

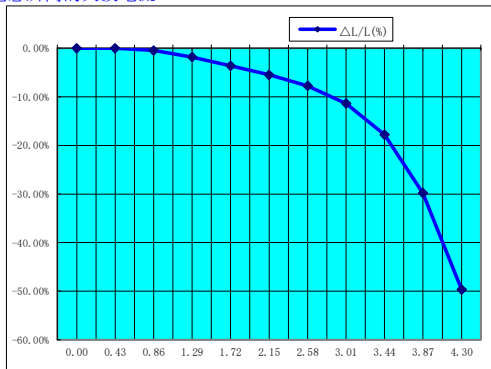
DATE 2025/3/18

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION						DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				
SPEC.	4.7 ± 20%	91 Max.	2.80 Max.	ΔL/L≤-30%	2.00 ΔT≤40°C °C			上限 下限	長 mm 寬 mm 高 mm MAX
TEST FREQ.	100KHz/1V		100KHz/1V						
1	4.71	66.4	4.23	-10.19%	OK				5.98 5.98 1.89
2	4.54	65.8	4.15	-8.59%	OK				5.96 5.95 1.88
3	4.66	65.1	4.28	-8.15%	OK				5.94 5.97 1.91
4	4.52	66.9	4.25	-5.97%	OK				5.95 5.94 1.90
5	4.53	66.3	4.19	-7.51%	OK				6.00 5.99 1.84
6	4.56	66.1	4.18	-8.33%	OK				6.02 6.00 1.84
7	4.66	65.7	4.15	-10.94%	OK				5.96 5.98 1.85
8	4.64	66.2	4.25	-8.41%	OK				5.99 5.94 1.92
9	4.63	66.4	4.16	-10.15%	OK				6.01 5.99 1.92
10	4.49	65.8	4.21	-6.24%	OK				6.02 6.01 1.87
AVG.	4.594	66.07	4.205	-8.45%					5.983 5.975 1.882
R	0.22	1.8	0.13	4.97%					0.08 0.07 0.08

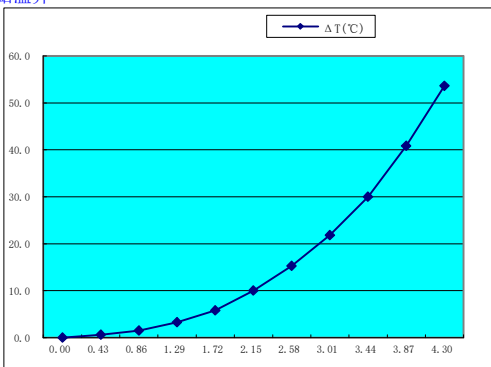
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	4.39	0.00%
1	0.43	4.39	0.00%
1	0.86	4.37	-0.46%
1	1.29	4.31	-1.82%
1	1.72	4.23	-3.64%
1	2.15	4.15	-5.47%
1	2.58	4.05	-7.74%
1	3.01	3.89	-11.39%
1	3.44	3.61	-17.77%
1	3.87	3.08	-29.84%
1	4.30	2.21	-49.66%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(°C)	ΔT(°C)
30	0.00	4.23	0.00%	30.0	0.0
30	0.43	4.22	-0.24%	30.6	0.6
30	0.86	4.19	-0.95%	31.5	1.5
30	1.29	4.15	-1.89%	33.3	3.3
30	1.72	4.09	-3.31%	35.8	5.8
30	2.15	4.03	-4.73%	40.0	10.0
30	2.58	3.93	-7.09%	45.3	15.3
30	3.01	3.77	-10.87%	51.8	21.8
30	3.44	3.48	-17.73%	60.0	30.0
30	3.87	2.81	-33.57%	70.8	40.8
30	4.30	1.78	-57.92%	83.6	53.6



承 認 书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR6020Z-5R6MC

PART NO. CKNR6020Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25°C

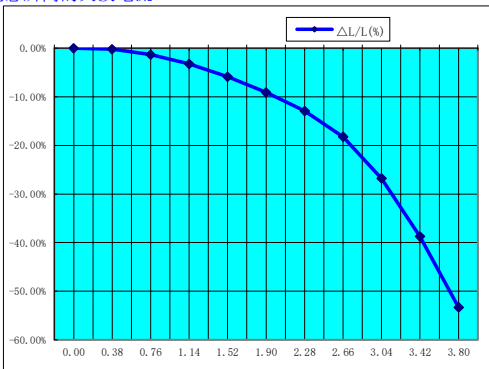
DATE 2025/3/18

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION								DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	△L/L	Irms A				長 mm	寬 mm	高 mm
SPEC.	5.6	95	2.40	△L/L≤-30%	1.90			上限	6.2	6.2	2.0
	± 20%	Max.	Max.		△T≤40℃ ℃			下限	5.8	5.8	MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	5.23	66.4	4.23	-19.12%	OK				5.98	5.98	1.89
2	5.36	65.8	4.20	-21.64%	OK				5.96	5.95	1.88
3	5.28	65.1	4.28	-18.94%	OK				5.94	5.97	1.91
4	5.22	66.9	4.25	-18.58%	OK				5.95	5.94	1.90
5	5.34	66.3	4.19	-21.54%	OK				6.00	5.99	1.84
6	5.42	66.1	4.18	-22.88%	OK				6.02	6.00	1.84
7	5.23	65.7	4.15	-20.65%	OK				5.96	5.98	1.85
8	5.32	66.2	4.25	-20.11%	OK				5.99	5.94	1.92
9	5.40	66.4	4.16	-22.96%	OK				6.01	5.99	1.92
10	5.48	65.8	4.21	-23.18%	OK				6.02	6.01	1.87
AVG.	5.328	66.07	4.21	-20.96%					5.983	5.975	1.882
R	0.26	1.8	0.13	4.59%					0.08	0.07	0.08

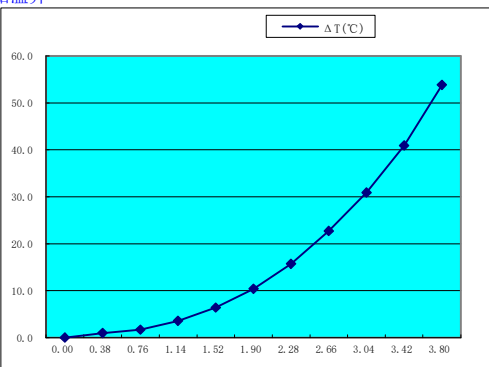
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	5.27	0.00%
1	0.38	5.26	-0.19%
1	0.76	5.20	-1.33%
1	1.14	5.10	-3.23%
1	1.52	4.96	-5.88%
1	1.90	4.79	-9.11%
1	2.28	4.59	-12.90%
1	2.66	4.31	-18.22%
1	3.04	3.86	-26.76%
1	3.42	3.23	-38.71%
1	3.80	2.46	-53.32%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(°C)	ΔT(°C)
30	0.00	5.19	0.00%	27.0	0.0
30	0.38	5.17	-0.39%	28.0	1.0
30	0.76	5.07	-2.31%	28.7	1.7
30	1.14	4.95	-4.62%	30.6	3.6
30	1.52	4.80	-7.51%	33.4	6.4
30	1.90	4.64	-10.60%	37.4	10.4
30	2.28	4.47	-13.87%	42.7	15.7
30	2.66	4.17	-19.65%	49.7	22.7
30	3.04	3.66	-29.48%	57.9	30.9
30	3.42	2.77	-46.63%	67.9	40.9
30	3.80	1.73	-66.67%	80.8	53.8



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR6020Z-6R8MC

PART NO. CKNR6020Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

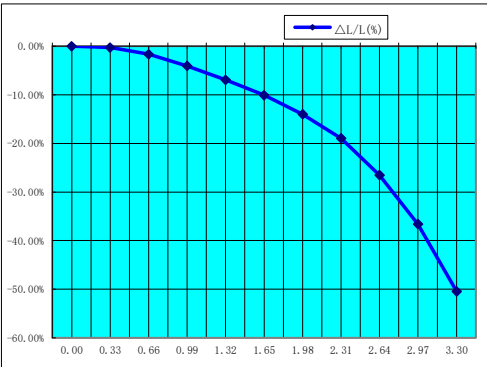
DATE 2025/3/18

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION								DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm
SPEC.	6.8 ± 20%	103 Max.	2.20 Max.	ΔL/L≤-30%	1.80 ΔT≤40℃ ℃			上限 下限	6.2 5.8	6.2 5.8	2.0 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	6.58	72.5	5.48	-16.72%	OK				5.94	5.96	1.95
2	6.72	72.6	5.40	-19.64%	OK				5.95	5.94	1.96
3	6.43	72.7	5.48	-14.77%	OK				5.97	5.97	1.94
4	6.80	72.8	5.50	-19.12%	OK				5.94	5.93	1.92
5	6.49	73.0	5.48	-15.56%	OK				6.00	6.01	1.90
6	6.73	73.1	5.47	-18.72%	OK				6.02	6.00	1.84
7	6.65	71.9	5.58	-16.09%	OK				5.96	5.98	1.85
8	6.52	72.0	5.42	-16.87%	OK				5.99	5.94	1.92
9	6.64	73.4	5.40	-18.67%	OK				6.01	5.99	1.92
10	6.60	73.7	5.26	-20.30%	OK				6.02	6.01	1.87
AVG.	6.616	72.77	5.447	-17.65%					5.98	5.973	1.907
R	0.37	1.8	0.32	5.53%					0.08	0.08	0.12

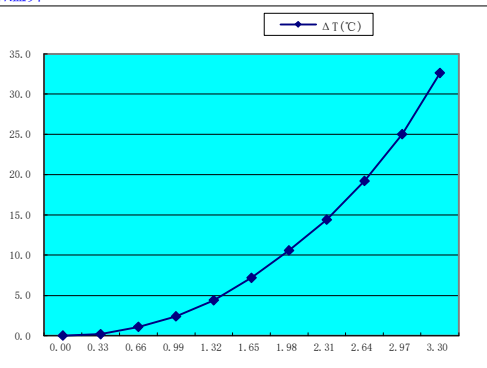
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	6.64	0.00%
1	0.33	6.62	-0.30%
1	0.66	6.53	-1.66%
1	0.99	6.37	-4.07%
1	1.32	6.18	-6.93%
1	1.65	5.97	-10.09%
1	1.98	5.71	-14.01%
1	2.31	5.38	-18.98%
1	2.64	4.88	-26.51%
1	2.97	4.21	-36.60%
1	3.30	3.29	-50.45%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	6.49	0.00%	28.9	0.0
30	0.33	6.48	-0.15%	29.1	0.2
30	0.66	6.38	-1.69%	30.0	1.1
30	0.99	6.22	-4.16%	31.3	2.4
30	1.32	6.04	-6.93%	33.3	4.4
30	1.65	5.82	-10.32%	36.1	7.2
30	1.98	5.56	-14.33%	39.5	10.6
30	2.31	5.19	-20.03%	43.3	14.4
30	2.64	4.62	-28.81%	48.1	19.2
30	2.97	3.75	-42.22%	53.9	25.0
30	3.30	2.61	-59.78%	61.5	32.6



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR6020Z-100MC

PART NO. CKNR6020Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

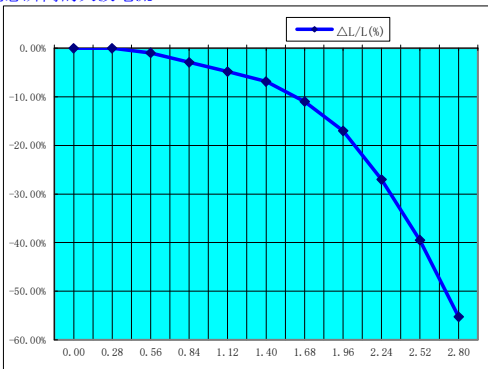
DATE 2025/3/18

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION								DIMENSION (Unit : mm)				
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm	
SPEC.	10.0	156	1.75	ΔL/L≤-30%	1.40				上限	6.2	6.2	2.0
	± 20%	Max.	Max.		ΔT≤40℃ ℃				下限	5.8	5.8	MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	10.7	119	9.09	-15.05%	OK					5.97	5.97	1.85
2	11.0	118	9.20	-16.36%	OK					5.94	5.97	1.92
3	10.7	124	9.10	-14.95%	OK					5.97	5.98	1.92
4	10.5	118	8.99	-14.38%	OK					5.95	5.98	1.90
5	10.4	121	8.80	-15.38%	OK					5.92	5.99	1.93
6	10.3	119	8.90	-13.59%	OK					6.00	5.98	1.95
7	11.0	121	8.95	-18.64%	OK					6.00	5.99	1.89
8	10.3	118	8.80	-14.56%	OK					6.00	6.00	1.88
9	10.7	120	8.99	-15.98%	OK					6.01	6.01	1.87
10	10.8	125	9.13	-15.46%	OK					5.99	6.01	1.84
AVG.	10.640	120.3	8.995	-15.44%						5.975	5.988	1.895
R	0.7	7	0.4	5.04%						0.09	0.04	0.11

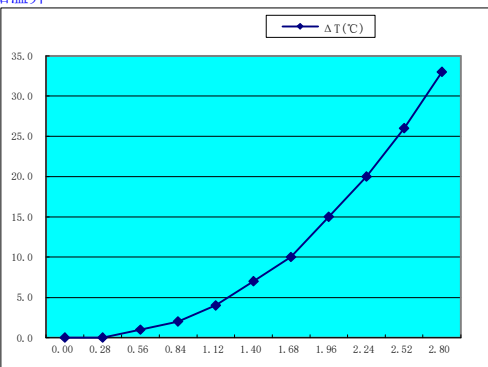
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	10.3	0.00%
1	0.28	10.3	0.00%
1	0.56	10.2	-0.97%
1	0.84	10.0	-2.91%
1	1.12	9.80	-4.85%
1	1.40	9.59	-6.89%
1	1.68	9.17	-10.97%
1	1.96	8.55	-16.99%
1	2.24	7.52	-26.99%
1	2.52	6.23	-39.51%
1	2.80	4.61	-55.24%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	9.7	0.00%	31.0	0.0
30	0.28	9.6	-1.13%	31.0	0.0
30	0.56	9.4	-2.68%	32.0	1.0
30	0.84	9.25	-4.64%	33.0	2.0
30	1.12	9.04	-6.80%	35.0	4.0
30	1.40	8.79	-9.38%	38.0	7.0
30	1.68	8.48	-12.58%	41.0	10.0
30	1.96	8.03	-17.22%	46.0	15.0
30	2.24	7.37	-24.02%	51.0	20.0
30	2.52	6.14	-36.70%	57.0	26.0
30	2.80	4.45	-54.12%	64.0	33.0



承 認 书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR6020Z-150MC

PART NO. CKNR6020Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25°C

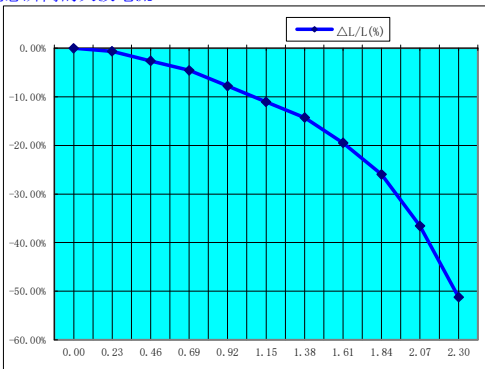
DATE 2025/3/18

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION								DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	△L/L	Irms A				長 mm	寬 mm	高 mm
SPEC.	15.0	210	1.50	△L/L≤-30%	1.20			上限	6.2	6.2	2.0
	± 20%	Max.	Max.		ΔT≤40℃ ℃			下限	5.8	5.8	MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	14.9	158	12.1	-18.79%	OK				5.95	5.97	1.94
2	15.0	157	12.0	-20.00%	OK				5.96	5.97	1.90
3	15.5	156	12.4	-20.00%	OK				5.96	5.98	1.91
4	15.4	157	12.5	-18.83%	OK				5.99	5.98	1.91
5	15.5	153	12.4	-20.00%	OK				5.95	5.99	1.95
6	15.1	158	12.6	-16.56%	OK				5.99	6.00	1.92
7	15.6	156	12.8	-17.95%	OK				5.99	5.99	1.89
8	15.8	157	12.8	-18.99%	OK				5.99	6.01	1.84
9	15.4	171	12.4	-19.48%	OK				5.96	5.98	1.87
10	15.9	156	12.9	-18.87%	OK				6.00	5.97	1.86
AVG.	15.410	157.9	12.49	-18.95%					5.974	5.984	1.899
R	1	18	0.9	3.44%					0.05	0.04	0.11

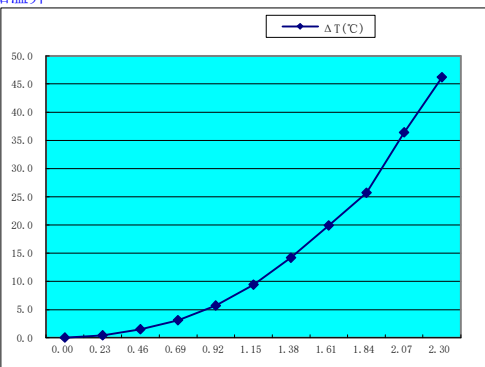
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	15.4	0.00%
1	0.23	15.3	-0.65%
1	0.46	15.0	-2.60%
1	0.69	14.7	-4.55%
1	0.92	14.2	-7.79%
1	1.15	13.7	-11.04%
1	1.38	13.2	-14.29%
1	1.61	12.4	-19.48%
1	1.84	11.4	-25.97%
1	2.07	9.8	-36.56%
1	2.30	7.51	-51.23%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(°C)	ΔT(°C)
30	0.00	14.2	0.00%	29.8	0.0
30	0.23	14.2	0.00%	30.2	0.4
30	0.46	14.0	-1.41%	31.3	1.5
30	0.69	13.7	-3.52%	32.9	3.1
30	0.92	13.4	-5.63%	35.5	5.7
30	1.15	13.0	-8.45%	39.2	9.4
30	1.38	12.5	-11.97%	44.0	14.2
30	1.61	11.8	-16.90%	49.7	19.9
30	1.84	10.8	-23.94%	55.5	25.7
30	2.07	8.41	-40.77%	66.2	36.4
30	2.30	4.75	-66.55%	76.0	46.2



承 認 书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR6020Z-220MC

PART NO. CKNR6020Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25°C

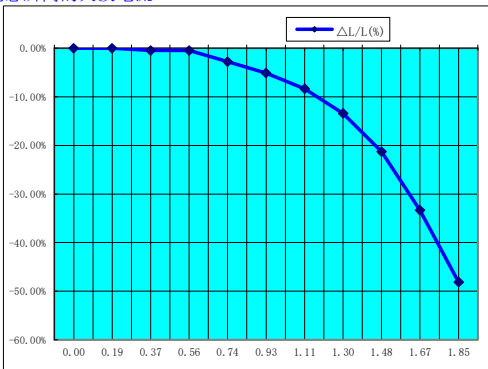
DATE 2025/3/18

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION						DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				
SPEC.	22.0 ± 20%	350 Max.	1.30 Max.	ΔL/L≤-30%	1.10 ΔT≤40°C °C			上限 下限	長 mm 寬 mm 高 mm MAX
TEST FREQ.	100KHz/1V		100KHz/1V						
1	22.8	247	18.0	-21.05%	OK				5.96 6.00 1.88
2	22.9	246	18.0	-21.40%	OK				6.02 6.00 1.81
3	23.2	249	18.2	-21.55%	OK				5.98 5.99 1.82
4	22.6	252	17.9	-20.80%	OK				5.98 5.98 1.89
5	22.9	250	17.6	-23.14%	OK				5.95 5.97 1.84
6	22.4	248	17.9	-20.09%	OK				5.98 5.94 1.89
7	22.7	252	18.1	-20.26%	OK				5.99 5.98 1.89
8	22.9	252	18.4	-19.65%	OK				6.01 6.01 1.80
9	22.3	247	18.6	-16.59%	OK				6.00 6.01 1.87
10	22.2	247	18.5	-16.67%	OK				6.01 5.99 1.86
AVG.	22.690	249	18.12	-20.12%					5.988 5.987 1.855
R	1	6	1	6.55%					0.07 0.07 0.09

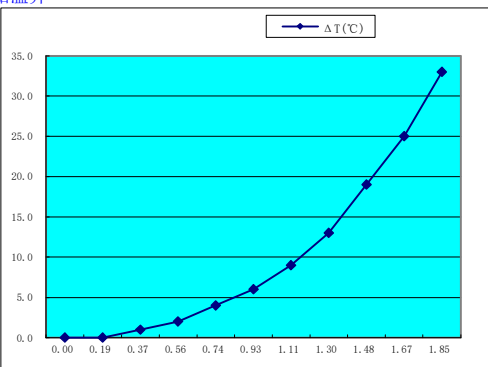
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	21.6	0.00%
1	0.19	21.6	0.00%
1	0.37	21.5	-0.46%
1	0.56	21.5	-0.46%
1	0.74	21.0	-2.78%
1	0.93	20.5	-5.09%
1	1.11	19.8	-8.33%
1	1.30	18.7	-13.43%
1	1.48	17.0	-21.30%
1	1.67	14.4	-33.33%
1	1.85	11.2	-48.15%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(°C)	ΔT(°C)
30	0.00	22.3	0.00%	32.0	0.0
30	0.19	22.3	0.00%	32.0	0.0
30	0.37	22.1	-0.90%	33.0	1.0
30	0.56	21.8	-2.24%	34.0	2.0
30	0.74	21.3	-4.48%	36.0	4.0
30	0.93	20.6	-7.62%	38.0	6.0
30	1.11	19.7	-11.66%	41.0	9.0
30	1.30	18.1	-18.83%	45.0	13.0
30	1.48	15.7	-29.60%	51.0	19.0
30	1.67	12.4	-44.39%	57.0	25.0
30	1.85	8.94	-59.91%	65.0	33.0



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR6020Z-330MC

PART NO. CKNR6020Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25°C

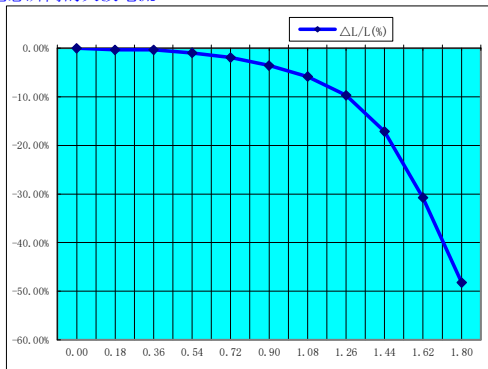
DATE 2025/3/18

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.	33.0	470	1.20	ΔL/L≤-30%	1.00				上限	6.2	6.2	2.0
	± 20%	Max.	Max.		ΔT≤40℃ ℃				下限	5.8	5.8	MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	31.1	384	26.1	-16.08%	OK					5.96	6.00	1.88
2	30.9	383	26.5	-14.24%	OK					6.02	6.00	1.81
3	31.4	385	26.1	-16.88%	OK					5.98	5.99	1.82
4	31.6	388	26.5	-16.14%	OK					5.98	5.98	1.89
5	31.4	383	27.0	-14.01%	OK					5.95	5.97	1.84
6	31.4	385	26.5	-15.61%	OK					5.98	5.94	1.89
7	31.4	385	25.9	-17.52%	OK					5.99	5.98	1.89
8	31.5	385	26.2	-16.83%	OK					6.01	6.01	1.80
9	31.5	385	26.8	-14.92%	OK					6.00	6.01	1.87
10	31.6	383	26.8	-15.19%	OK					6.01	5.99	1.86
AVG.	31.380	384.6	26.44	-15.74%						5.988	5.987	1.855
R	0.7	5	1.1	3.50%						0.07	0.07	0.09

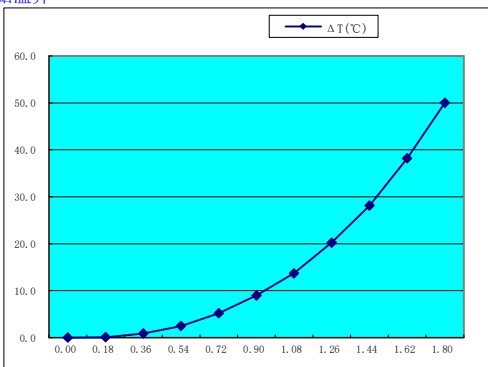
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	30.9	0.00%
1	0.18	30.8	-0.32%
1	0.36	30.8	-0.32%
1	0.54	30.6	-0.97%
1	0.72	30.3	-1.94%
1	0.90	29.8	-3.56%
1	1.08	29.1	-5.83%
1	1.26	27.9	-9.71%
1	1.44	25.6	-17.15%
1	1.62	21.4	-30.74%
1	1.80	16.0	-48.22%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(°C)	ΔT(°C)
30	0.00	30.4	0.00%	29.6	0.0
30	0.18	30.3	-0.33%	29.7	0.1
30	0.36	30.2	-0.66%	30.5	0.9
30	0.54	30.1	-0.99%	32.1	2.5
30	0.72	29.7	-2.30%	34.8	5.2
30	0.90	29.2	-3.95%	38.6	9.0
30	1.08	28.3	-6.91%	43.3	13.7
30	1.26	26.8	-11.84%	49.8	20.2
30	1.44	23.6	-22.37%	57.7	28.1
30	1.62	17.9	-41.12%	67.8	38.2
30	1.80	11.7	-61.51%	79.6	50.0



承 認 书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR6020Z-470MC

PART NO. CKNR6020Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25°C

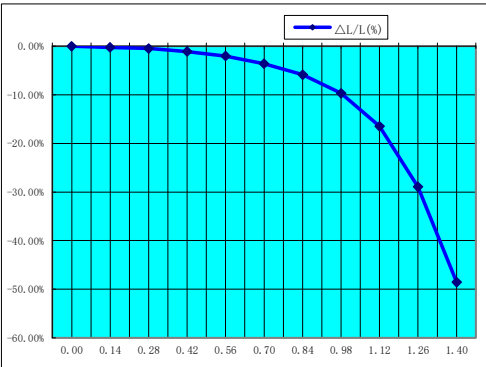
DATE 2025/3/18

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.	47.0 ± 20%	730 Max.	1.10 Max.	ΔL/L≤-30%	0.90 ΔT≤40℃ ℃				上限 6.2 下限 5.8	6.2 5.8	2.0 MAX
TEST FREQ.	1MHz/1V		100KHz/1V								
1	44.1	590	36.5	-17.23%	OK				5.96	6.00	1.88
2	44.5	588	36.1	-18.88%	OK				6.02	6.00	1.81
3	44.5	592	35.6	-20.00%	OK				5.98	5.99	1.82
4	44.0	592	36.8	-16.36%	OK				5.98	5.98	1.89
5	44.6	595	37.0	-17.04%	OK				5.95	5.97	1.84
6	43.5	590	36.5	-16.09%	OK				5.98	5.94	1.89
7	43.7	592	36.1	-17.39%	OK				5.99	5.98	1.89
8	44.8	590	36.5	-18.53%	OK				6.01	6.01	1.80
9	43.7	592	37.0	-15.33%	OK				6.00	6.01	1.87
10	44.4	592	36.5	-17.79%	OK				6.01	5.99	1.86
AVG.	44.180	591.3	36.46	-17.46%					5.988	5.987	1.855
R	1.3	7	1.4	4.67%					0.07	0.07	0.09

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	44.3	0.00%
1	0.14	44.2	-0.23%
1	0.28	44.1	-0.45%
1	0.42	43.8	-1.13%
1	0.56	43.4	-2.03%
1	0.70	42.7	-3.61%
1	0.84	41.7	-5.87%
1	0.98	40.0	-9.71%
1	1.12	37.0	-16.48%
1	1.26	31.5	-28.89%
1	1.40	22.8	-48.53%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(°C)	ΔT(°C)
30	0.00	43.7	0.00%	32.0	0.0
30	0.14	43.6	-0.23%	32.0	0.0
30	0.28	43.4	-0.69%	33.0	1.0
30	0.42	43.1	-1.37%	34.0	2.0
30	0.56	42.6	-2.52%	37.0	5.0
30	0.70	41.9	-4.12%	41.0	9.0
30	0.84	40.7	-6.86%	46.0	14.0
30	0.98	38.7	-11.44%	52.0	20.0
30	1.12	34.7	-20.59%	59.0	27.0
30	1.26	27.1	-37.99%	69.0	37.0
30	1.40	20.1	-54.00%	80.0	48.0

