

承 认 书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	03/Apr/2025	REVISION NO.	A
PART NO.	CKNR3012B 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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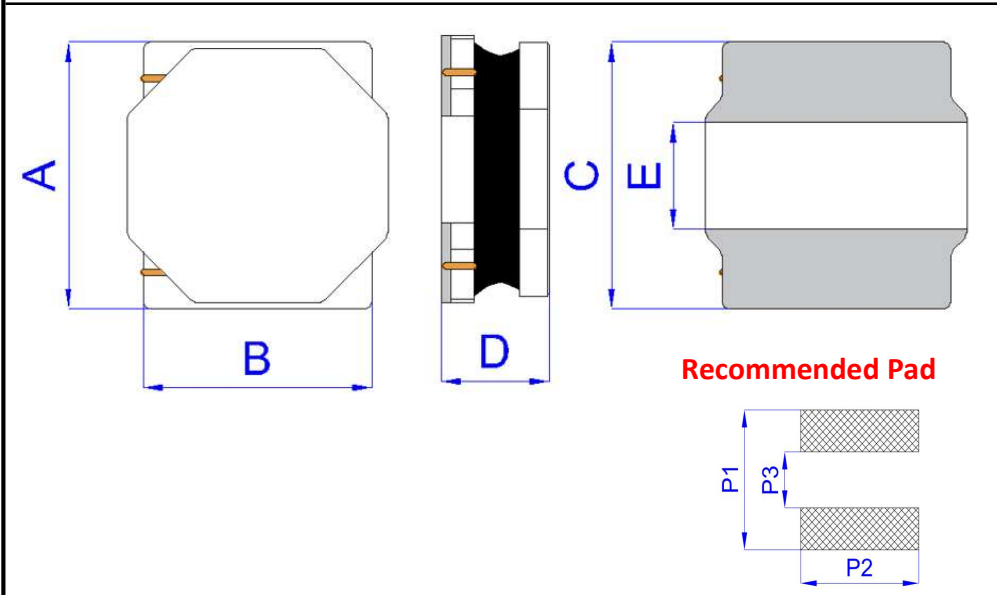
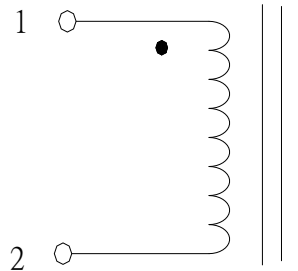
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CUSTOMER	0	REVISION NO.	A
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PART NO.	CKNR3012B Series	DATE	2025/4/3

1.SHAPE & DIMENSION

UNIT: mm						SCHEMATICS	
							
						MARKING COLOR	
						NA	
A	B	C	D	E	P1	P2	P3
3	3	3	1.1	1.2	3.0	2.7	1.4
±0.2	±0.2	±0.2	±0.1	Ref.	Ref.	Ref.	Ref.

PART NUMBERING SYSTEM

CK NR 3012 B - 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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CUSTOMER'S P/N	0	PAGE	P 2/8
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2.SERIES SPECIFICATION

◆ CKNR3012B Series Specification:

Part Number	Inductance	Test Freq	DCR (m Ω)		Saturation Current (A)		Temp. Rise Current (A)	
	(μ H)	(Hz)	Max	Typ	Max	Typ	Max	Typ
CKNR3010B-1R0YC	1. 00	100KHz/1V	76	60	2. 60	2. 90	2. 50	3. 30
CKNR3010B-1R5YC	1. 50		95	81	1. 90	2. 20	1. 90	2. 40
CKNR3010B-2R2NC	2. 20		142	123	1. 50	1. 80	1. 80	2. 20
CKNR3012B-3R3MC	3. 30		260	195	1. 40	1. 50	1. 70	2. 00
CKNR3012B-4R7MC	4. 70		351	242	0. 90	1. 10	1. 30	1. 70
CKNR3010B-6R8MC	6. 80		392	312	0. 90	1. 05	1. 00	1. 30
CKNR3010B-100MC	10. 0		585	465	0. 75	0. 80	0. 85	1. 00
CKNR3010B-220MC	22. 0		1176	980	0. 55	0. 60	0. 60	0. 85

◆ TEST CONDITION

ITEM	TEST CONDITION	TEST INSTRUMENTS
L	100KHz/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 CKNR3012B Series size inductors, absolute maximum voltage: 1 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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CUSTOMER'S P/N	0	PAGE	P 3/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
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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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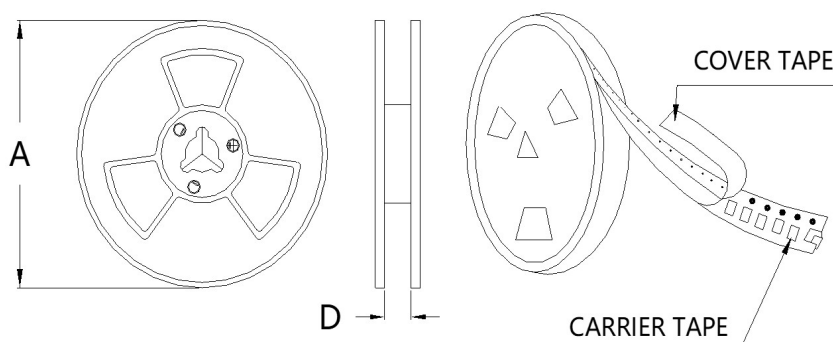
4.PACKAGING(unit: mm)

1.包装类型

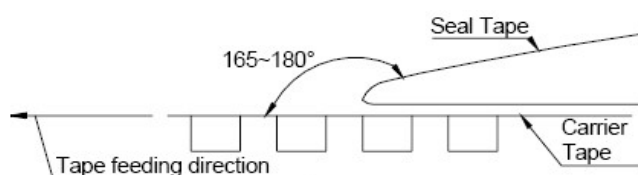
2.包装尺寸

13" 盘

7" 盘



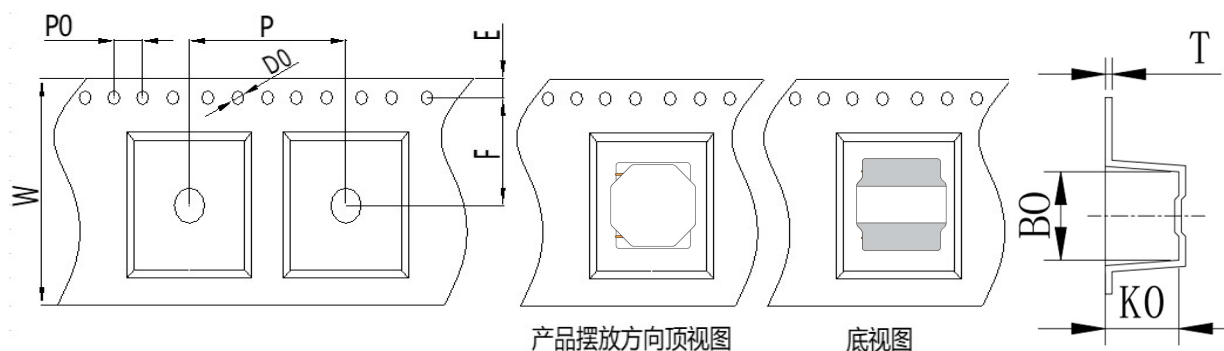
	13" 盘	7" 盘
A	$\Phi 330 \pm 2.0$	$\Phi 178 \pm 2.0$
D	8.4	



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	3.3±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	1.35±0.1	

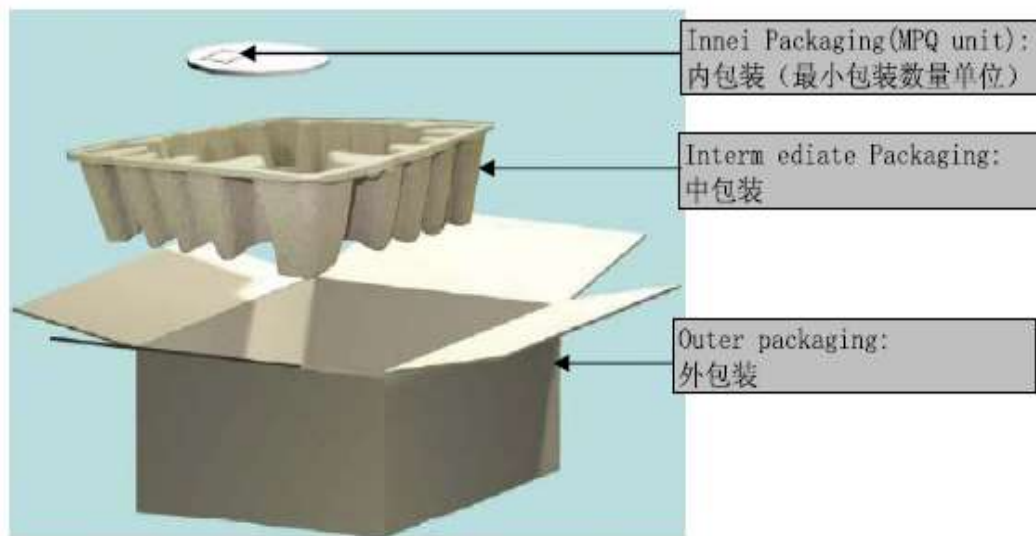
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DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
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5. CARTON



- 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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CUSTOMER'S P/N	0	PAGE	P 6/8
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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

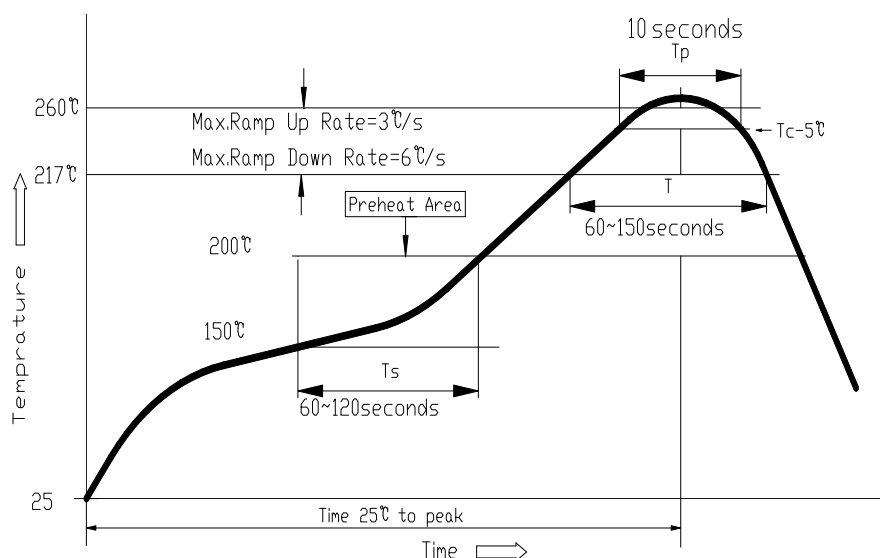
Applicable soldering process to the products is refl.

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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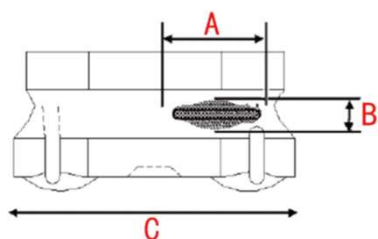


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DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
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8.Appearance of the standard

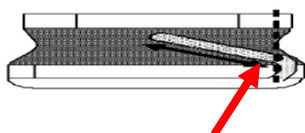
1.Void appearance tolerance limit



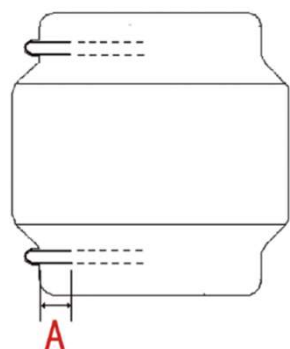
Size of voids occurring to coating resin is specified below.

- 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: CKNR3012B-1R0YC

PART NO. CKNR3012B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

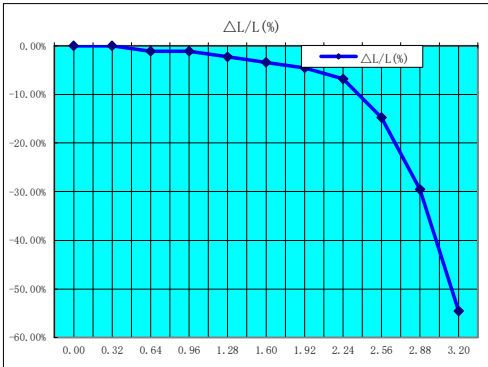
DATE 2025/4/3

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 ± 30%	76 Max.	2.20 Max.	ΔL/L≤-30%	2.00 ΔT≤40℃ ℃				上限 2.8	3.2 2.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	1.03	59.6	0.88	-14.56%	OK				3.02	3.00	1.08
2	1.01	60.4	0.87	-13.86%	OK				3.08	3.04	1.16
3	1.04	64.0	0.89	-14.42%	OK				3.02	3.01	1.10
4	1.06	57.8	0.90	-15.09%	OK				3.00	3.00	1.09
5	1.02	60.9	0.91	-10.78%	OK				3.00	3.02	1.12
6	1.03	60.4	0.89	-13.59%	OK				3.03	3.01	1.12
7	1.04	58.7	0.88	-15.38%	OK				3.02	3.03	1.13
8	1.02	57.5	0.88	-13.73%	OK				3.03	3.02	1.15
9	1.06	59.9	0.88	-16.98%	OK				3.05	3.03	1.11
10	1.05	60.3	0.89	-15.24%	OK				3.01	3.00	1.09
AVG.	1.036	59.95	0.887	-14.36%					3.026	3.016	1.115
R	0.05	6.5	0.04	6.20%					0.08	0.04	0.08

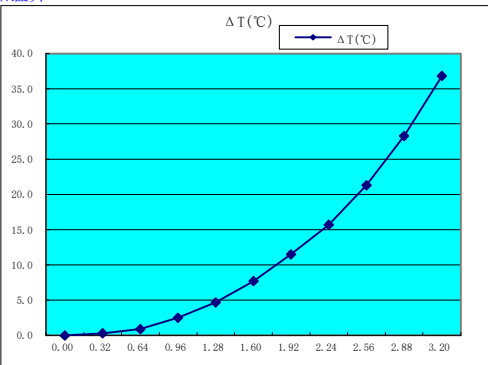
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	0.88	0.00%
1	0.32	0.88	0.00%
1	0.64	0.87	-1.14%
1	0.96	0.87	-1.14%
1	1.28	0.86	-2.27%
1	1.60	0.85	-3.41%
1	1.92	0.84	-4.55%
1	2.24	0.82	-6.82%
1	2.56	0.75	-14.77%
1	2.88	0.62	-29.55%
1	3.20	0.40	-54.55%



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TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	0.88	0.00%	31.3	0.0
30	0.32	0.87	-1.14%	31.6	0.3
30	0.64	0.87	-1.14%	32.2	0.9
30	0.96	0.86	-2.27%	33.8	2.5
30	1.28	0.85	-3.41%	36.0	4.7
30	1.60	0.84	-4.55%	39.0	7.7
30	1.92	0.83	-5.68%	42.8	11.5
30	2.24	0.80	-9.09%	47.0	15.7
30	2.56	0.73	-17.05%	52.6	21.3
30	2.88	0.60	-31.82%	59.6	28.3
30	3.20	0.39	-55.68%	68.1	36.8



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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.	1.5 ± 30%	95 Max.	1.80 Max.	ΔL/L≤-30%	1.90 ΔT≤40℃ ℃				上限 下限	3.2 2.8	3.2 2.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	1.40	87.0	1.18	-15.71%	OK				3.02	3.00	1.08	
2	1.39	79.7	1.15	-17.27%	OK				3.08	3.04	1.16	
3	1.43	79.6	1.15	-19.58%	OK				3.02	3.01	1.10	
4	1.43	76.9	1.14	-20.28%	OK				3.00	3.00	1.09	
5	1.43	77.1	1.14	-20.28%	OK				3.00	3.02	1.12	
6	1.42	78.4	1.15	-19.01%	OK				3.03	3.01	1.12	
7	1.44	84.7	1.16	-19.44%	OK				3.02	3.03	1.13	
8	1.43	83.2	1.13	-20.98%	OK				3.03	3.02	1.15	
9	1.44	80.6	1.15	-20.14%	OK				3.05	3.03	1.11	
10	1.43	83.6	1.14	-20.28%	OK				3.01	3.00	1.09	
AVG.	1.424	81.08	1.149	-19.30%					3.026	3.016	1.115	
R	0.05	10.1	0.05	5.26%					0.08	0.04	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	1.56	0.00%
1	0.24	1.56	0.00%
1	0.47	1.56	0.00%
1	0.71	1.55	-0.64%
1	0.94	1.53	-1.92%
1	1.18	1.52	-2.56%
1	1.41	1.49	-4.49%
1	1.65	1.44	-7.69%
1	1.88	1.26	-19.23%
1	2.12	1.14	-26.92%
1	2.35	0.85	-45.51%

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TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	1.55	0.00%	29.5	0.0
30	0.24	1.65	6.71%	30.0	0.5
30	0.47	1.53	-1.29%	30.7	1.2
30	0.71	1.52	-1.94%	32.1	2.6
30	0.94	1.51	-2.58%	34.0	4.5
30	1.18	1.49	-3.87%	36.7	7.2
30	1.41	1.47	-5.16%	40.0	10.5
30	1.65	1.42	-8.39%	44.1	14.6
30	1.88	1.32	-14.84%	49.2	19.7
30	2.12	1.11	-28.39%	54.5	25.0
30	2.35	0.74	-52.26%	62.2	32.7

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JINKAI P/N: CKNR3012B-2R2NC

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DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

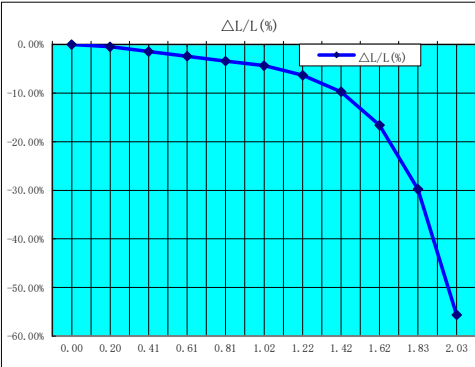
DATE 2025/4/3

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 ± 25%	142 Max.	1.50 Max.	ΔL/L≤-30%	1.60 ΔT≤40℃ ℃				上限 下限	3.2 2.8	3.2 2.8 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	2.33	124	1.83	-21.46%	OK				3.02	3.00	1.14
2	2.43	124	1.86	-23.46%	OK				3.02	3.03	1.10
3	2.36	122	1.85	-21.61%	OK				3.01	3.05	1.09
4	2.34	121	1.84	-21.27%	OK				3.01	3.02	1.09
5	2.39	125	1.90	-20.50%	OK				3.01	3.00	1.16
6	2.38	116	1.87	-21.43%	OK				3.02	3.03	1.12
7	2.38	118	1.89	-20.59%	OK				3.03	3.01	1.15
8	2.39	123	1.88	-21.34%	OK				3.02	3.05	1.13
9	2.38	123	1.89	-20.59%	OK				3.01	3.03	1.15
10	2.38	122	1.90	-20.17%	OK				3.02	3.00	1.14
AVG.	2.376	121.8	1.871	-21.24%					3.017	3.022	1.127
R	0.1	9	0.07	3.29%					0.02	0.05	0.07

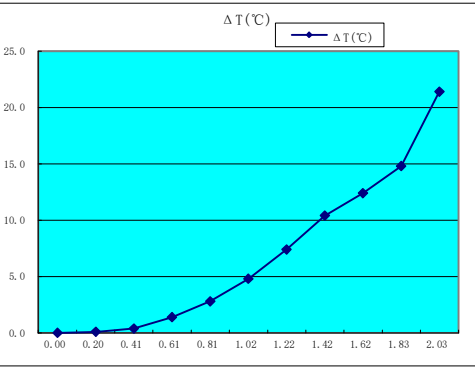
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	2.05	0.00%
1	0.20	2.04	-0.49%
1	0.41	2.02	-1.46%
1	0.61	2.00	-2.44%
1	0.81	1.98	-3.41%
1	1.02	1.96	-4.39%
1	1.22	1.92	-6.34%
1	1.42	1.85	-9.76%
1	1.62	1.71	-16.59%
1	1.83	1.44	-29.76%
1	2.03	0.91	-55.61%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	2.09	0.00%	29.9	0.0
30	0.20	2.07	-0.96%	30.0	0.1
30	0.41	2.05	-1.91%	30.3	0.4
30	0.61	2.04	-2.39%	31.3	1.4
30	0.81	2.01	-3.83%	32.7	2.8
30	1.02	1.96	-6.22%	34.7	4.8
30	1.22	1.93	-7.66%	37.3	7.4
30	1.42	1.75	-16.27%	40.3	10.4
30	1.62	1.69	-19.14%	42.3	12.4
30	1.83	1.68	-19.62%	44.7	14.8
30	2.03	1.39	-33.49%	51.3	21.4



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3012B-3R3MC

PART NO. CKNR3012B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

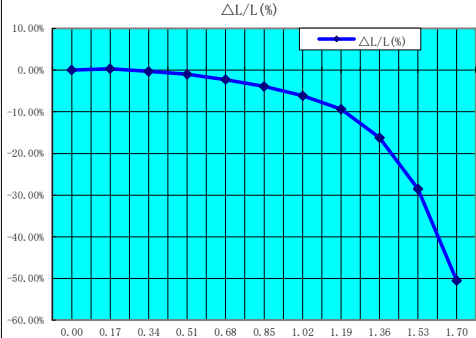
DATE 2025/4/3

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%	260 Max.	1.05 Max.	ΔL/L≤-30%	1.36 ΔT≤40℃ ℃			上限 下限	3.2 2.8	3.2 2.8 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	3.01	188	2.60	-13.62%	OK			3.04	3.07	1.11
2	3.14	191	2.65	-15.61%	OK			3.05	3.01	1.10
3	3.08	186	2.58	-16.23%	OK			3.05	3.03	1.09
4	3.05	199	2.50	-18.03%	OK			3.05	3.04	1.12
5	3.09	192	2.56	-17.15%	OK			3.03	3.01	1.11
6	3.07	203	2.54	-17.26%	OK			3.03	3.06	1.13
7	3.13	192	2.51	-19.81%	OK			3.06	3.03	1.15
8	3.12	190	2.54	-18.59%	OK			3.05	3.02	1.12
9	3.15	195	2.53	-19.68%	OK			3.01	3.05	1.11
10	3.16	192	2.54	-19.62%	OK			3.05	3.02	1.14
AVG.	3.100	192.8	2.555	-17.56%				3.042	3.034	1.118
R	0.15	17	0.15	6.19%				0.05	0.06	0.06

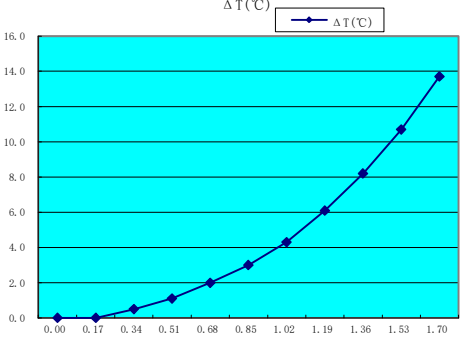
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	3.09	0.00%
1	0.17	3.10	0.32%
1	0.34	3.08	-0.32%
1	0.51	3.06	-0.97%
1	0.68	3.02	-2.27%
1	0.85	2.97	-3.88%
1	1.02	2.90	-6.15%
1	1.19	2.80	-9.39%
1	1.36	2.59	-16.18%
1	1.53	2.21	-28.48%
1	1.70	1.53	-50.49%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	2.19	0.00%	27.0	0.0
30	0.17	2.18	-0.46%	27.0	0.0
30	0.34	2.18	-0.46%	27.5	0.5
30	0.51	2.17	-0.91%	28.1	1.1
30	0.68	2.15	-1.83%	29.0	2.0
30	0.85	2.13	-2.74%	30.0	3.0
30	1.02	2.10	-4.11%	31.3	4.3
30	1.19	2.05	-6.39%	33.1	6.1
30	1.36	1.96	-10.50%	35.2	8.2
30	1.53	1.79	-18.26%	37.7	10.7
30	1.70	1.47	-32.88%	40.7	13.7



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N:

CKNR3012B-4R7MC

PART NO.

CKNR3012B Series

DRAWN NO.

TEST R.H.

80~85%

TEST TEMP.

20~25℃

DATE

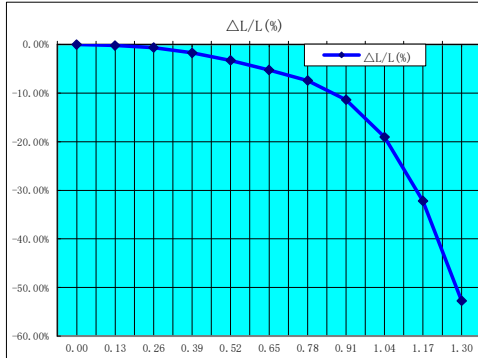
2025/4/3

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%	351 Max.	0.90 Max.	ΔL/L≤-30%	0.90 ΔT≤40℃ ℃				上限 3.2 下限 2.8	3.2 2.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	4.40	244	3.58	-18.64%	OK				3.03	3.02	1.09
2	4.41	250	3.52	-20.18%	OK				3.03	3.01	1.09
3	4.43	254	3.54	-20.09%	OK				3.03	3.06	1.09
4	4.33	242	3.51	-18.94%	OK				3.04	3.02	1.08
5	4.48	240	3.58	-20.09%	OK				3.02	3.03	1.16
6	4.18	235	3.50	-16.27%	OK				3.03	3.02	1.12
7	4.35	242	3.52	-19.08%	OK				3.01	3.03	1.12
8	4.51	242	3.58	-20.62%	OK				3.05	3.02	1.12
9	4.34	245	3.52	-18.89%	OK				3.03	3.01	1.11
10	4.43	234	3.54	-20.09%	OK				3.02	3.00	1.13
AVG.	4.386	242.8	3.539	-19.29%					3.029	3.022	1.111
R	0.33	20	0.08	4.35%					0.04	0.06	0.08

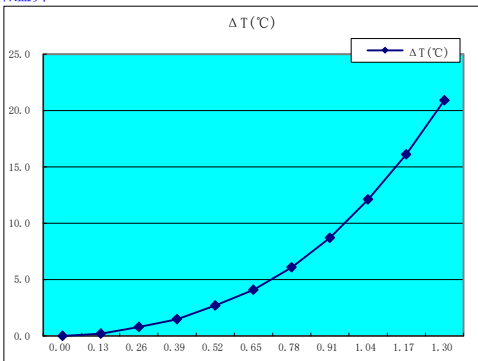
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	4.57	0.00%
1	0.13	4.56	-0.22%
1	0.26	4.54	-0.66%
1	0.39	4.49	-1.75%
1	0.52	4.42	-3.28%
1	0.65	4.33	-5.25%
1	0.78	4.23	-7.44%
1	0.91	4.05	-11.38%
1	1.04	3.70	-19.04%
1	1.17	3.10	-32.17%
1	1.30	2.16	-52.74%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	4.33	0.00%	28.6	0.0
30	0.13	4.32	-0.23%	28.8	0.2
30	0.26	4.31	-0.46%	29.4	0.8
30	0.39	4.28	-1.15%	30.1	1.5
30	0.52	4.22	-2.54%	31.3	2.7
30	0.65	4.15	-4.16%	32.7	4.1
30	0.78	4.07	-6.00%	34.7	6.1
30	0.91	3.96	-8.55%	37.3	8.7
30	1.04	3.78	-12.70%	40.7	12.1
30	1.17	3.44	-20.55%	44.7	16.1
30	1.30	2.87	-33.72%	49.5	20.9



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3012B-6R8MC

PART NO. CKNR3012B 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.	6.8 ± 20%	392 Max.	0.80 Max.	ΔL/L≤-30%	0.80 ΔT≤40℃ ℃				上限 下限	3.2 2.8	3.2 2.8	1.2 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	6.79	313	5.47	-19.4%	OK				3.04	3.01	1.12	
2	6.56	316	5.40	-17.7%	OK				3.05	3.02	1.12	
3	6.59	306	5.32	-19.3%	OK				3.03	3.03	1.10	
4	6.75	305	5.45	-19.3%	OK				3.06	3.02	1.09	
5	6.52	315	5.32	-18.4%	OK				3.04	3.04	1.06	
6	6.79	307	5.36	-21.1%	OK				3.03	3.03	1.12	
7	6.70	308	5.42	-19.1%	OK				3.06	3.05	1.11	
8	6.60	318	5.50	-16.7%	OK				3.02	3.03	1.09	
9	6.62	317	5.45	-17.7%	OK				3.02	3.02	1.08	
10	6.79	318	5.42	-20.2%	OK				3.00	3.02	1.09	
AVG.	6.671	312.3	5.411	-18.87%					3.035	3.027	1.098	
R	0.27	13	0.18	4.39%					0.06	0.04	0.06	

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	6.40	0.00%
1	0.12	6.42	0.31%
1	0.23	6.41	0.16%
1	0.35	6.40	0.00%
1	0.46	6.35	-0.78%
1	0.58	6.28	-1.88%
1	0.69	6.18	-3.44%
1	0.81	5.95	-7.03%
1	0.92	5.64	-11.88%
1	1.04	4.99	-22.03%
1	1.15	3.65	-42.97%

單點溫昇					
TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	6.31	0.00%	27.9	0.0
30	0.12	6.30	-0.16%	28.2	0.3
30	0.23	6.28	-0.48%	29.0	1.1
30	0.35	6.25	-0.95%	30.1	2.2
30	0.46	6.19	-1.90%	32.0	4.1
30	0.58	6.10	-3.33%	34.0	6.1
30	0.69	5.96	-5.55%	36.6	8.7
30	0.81	5.71	-9.51%	39.8	11.9
30	0.92	5.25	-16.80%	42.7	14.8
30	1.04	4.43	-29.79%	48.4	20.5
30	1.15	3.27	-48.18%	54.2	26.3

承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3012B-100MC

PART NO. CKNR3012B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

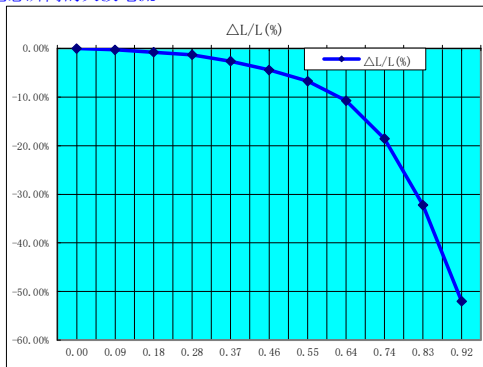
DATE 2025/4/3

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.	10.0 ± 20%	585 Max.	0.70 Max.	ΔL/L≤-30%	0.75 ΔT≤40℃ ℃			上限 下限	3.2 2.8	3.2 2.8 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	9.52	481	8.39	-11.87%	OK			3.04	3.01	1.12
2	9.18	460	8.50	-7.41%	OK			3.05	3.02	1.12
3	10.1	474	8.50	-15.84%	OK			3.03	3.03	1.10
4	9.22	465	8.40	-8.89%	OK			3.06	3.02	1.09
5	9.89	456	8.60	-13.04%	OK			3.04	3.04	1.06
6	9.67	452	8.41	-13.03%	OK			3.03	3.03	1.12
7	9.12	465	8.20	-10.09%	OK			3.06	3.05	1.11
8	9.92	478	8.45	-14.82%	OK			3.02	3.03	1.09
9	9.65	454	8.35	-13.47%	OK			3.02	3.02	1.08
10	9.58	468	8.35	-12.84%	OK			3.00	3.02	1.09
AVG.	9.585	465.3	8.415	-12.13%				3.035	3.027	1.098
R	0.98	29	0.4	8.43%				0.06	0.04	0.06

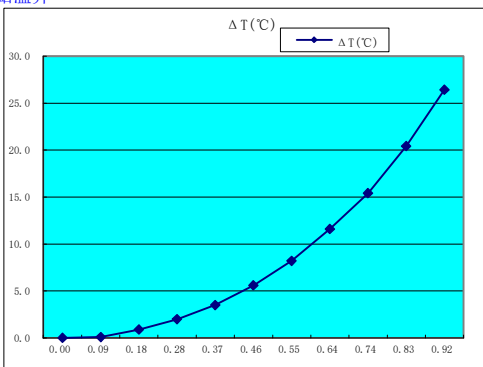
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	9.96	0.00%
1	0.09	9.93	-0.30%
1	0.18	9.88	-0.80%
1	0.28	9.83	-1.31%
1	0.37	9.70	-2.61%
1	0.46	9.52	-4.42%
1	0.55	9.29	-6.73%
1	0.64	8.89	-10.74%
1	0.74	8.11	-18.57%
1	0.83	6.75	-32.23%
1	0.92	4.78	-52.01%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	10.2	0.00%	21.6	0.0
30	0.09	9.98	-2.16%	21.7	0.1
30	0.18	9.95	-2.45%	22.5	0.9
30	0.28	9.85	-3.43%	23.6	2.0
30	0.37	9.76	-4.31%	25.1	3.5
30	0.46	9.57	-6.18%	27.2	5.6
30	0.55	9.31	-8.73%	29.8	8.2
30	0.64	8.87	-13.04%	33.2	11.6
30	0.74	7.95	-22.06%	37.0	15.4
30	0.83	6.29	-38.33%	42.0	20.4
30	0.92	4.01	-60.69%	48.0	26.4



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR3012B-220MC

PART NO. CKNR3012B Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25℃

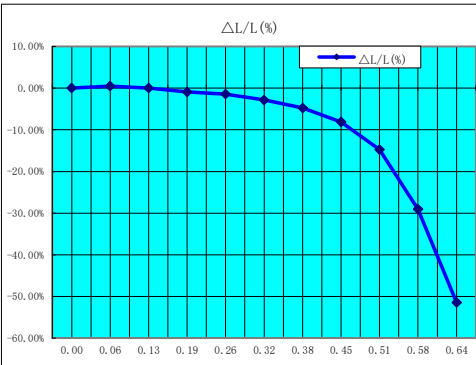
DATE 2025/4/3

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.	22.0 ± 20%	1176 Max.	0.42 Max.	ΔL/L≤-30%	0.53 ΔT≤40℃ ℃			上限 下限	3.2 2.8	3.2 2.8 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	21.0	980	19.3	-8.10%	OK			3.04	3.01	1.12
2	20.2	990	18.2	-9.90%	OK			3.05	3.02	1.12
3	19.7	971	17.9	-9.14%	OK			3.03	3.03	1.10
4	19.9	975	18.5	-7.04%	OK			3.06	3.02	1.09
5	20.0	985	18.1	-9.50%	OK			3.04	3.04	1.06
6	19.8	971	17.9	-9.60%	OK			3.03	3.03	1.12
7	19.7	976	17.8	-9.64%	OK			3.06	3.05	1.11
8	20.0	986	18.0	-10.00%	OK			3.02	3.03	1.09
9	20.1	989	18.4	-8.46%	OK			3.02	3.02	1.08
10	19.9	981	18.6	-6.53%	OK			3.00	3.02	1.09
AVG.	20.030	980.4	18.27	-8.79%				3.035	3.027	1.098
R	1.3	19	1.5	3.47%				0.06	0.04	0.06

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	21.0	0.00%
1	0.06	21.1	0.48%
1	0.13	21.0	0.00%
1	0.19	20.8	-0.95%
1	0.26	20.7	-1.43%
1	0.32	20.4	-2.86%
1	0.38	20.0	-4.76%
1	0.45	19.3	-8.10%
1	0.51	17.9	-14.76%
1	0.58	14.9	-29.05%
1	0.64	10.2	-51.43%



單點溫昇

TME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(℃)	ΔT(℃)
30	0.00	20.2	0.00%	20.7	0.0
30	0.06	20.1	-0.50%	21.1	0.4
30	0.13	20.0	-0.99%	22.0	1.3
30	0.19	19.8	-1.98%	22.6	1.9
30	0.26	19.9	-1.49%	24.0	3.3
30	0.32	19.6	-2.97%	25.7	5.0
30	0.38	19.3	-4.46%	27.6	6.9
30	0.45	18.8	-6.93%	30.2	9.5
30	0.51	17.8	-11.88%	33.5	12.8
30	0.58	15.7	-22.28%	38.3	17.6
30	0.64	11.7	-42.08%	43.9	23.2

