

承 认 书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	18/Mar/2025	REVISION NO.	A
PART NO.	CKNR8040Z 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

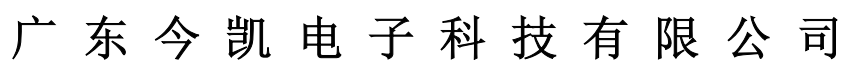
GUANG DONG CHK ELECTRONIC TECH Co., Ltd

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



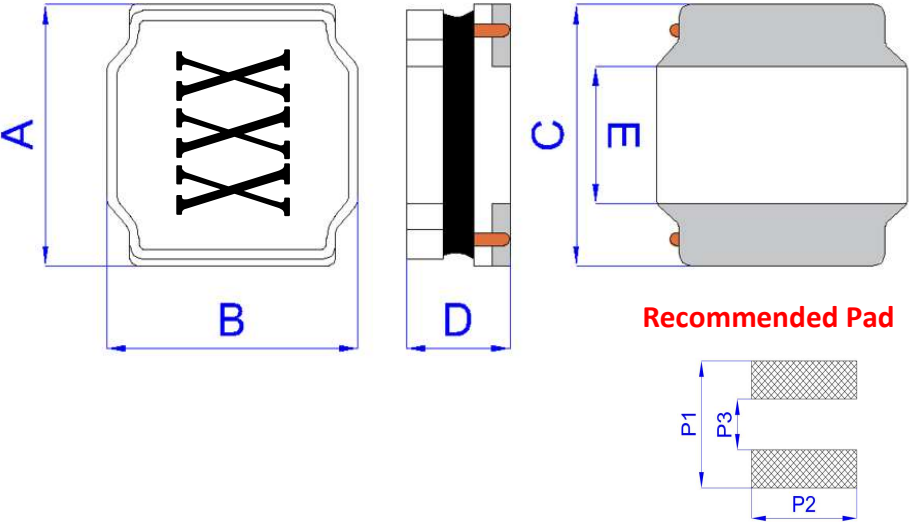
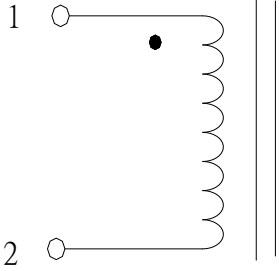
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1.SHAPE & DIMENSION

UNIT: mm						SCHEMATICS	
							
						MARKING COLOR	
						BLACK	
A	B	C	D	E	P1	P2	P3
8	8	8	4	3.1	8.2	7.7	3.8
±0.2	±0.2	±0.2	MAX	±0.3	Ref.	Ref.	Ref.

备注：1R0/1R5/2R2/3R3 焊锡前高度为3.99mm，所以高度为4.2mmMAX

PART NUMBERING SYSTEM

CK	NR	8040	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		
黄大燕		黄大燕			林树英		



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2.SERIES SPECIFICATION

◆ CKNR8040Z Series

Specification:

Part Number	Inductance	Test Freq	DCR (mΩ)		Saturation Current (A)		Temp. Rise Current (A)	
	(μH)		Max	Typ	Max	Typ	Max	Typ
CKNR8040Z-R50MB	0.50	100KHz/1V	7	5.5	15.0	17.0	10.0	12.0
CKNR8040Z-R90MB	0.90		10	8.2	13.0	13.8	8.0	8.5
CKNR8040Z-1R0MB	1.00		10	8.2	13.0	13.8	8.0	8.5
CKNR8040Z-1R2MB	1.20		10	8.2	11.5	12.8	7.8	8.3
CKNR8040Z-1R4MB	1.40		12	10.0	11.2	11.8	7.8	8.2
CKNR8040Z-1R5MB	1.50		12	10.0	11.0	11.5	7.7	8.0
CKNR8040Z-1R6MB	1.60		12	10.0	11.0	11.5	7.7	8.0
CKNR8040Z-1R8MB	1.80		13	10.5	10.0	10.5	7.3	7.7
CKNR8040Z-2R0MB	2.00		13	11.0	9.6	10.2	7.1	7.5
CKNR8040Z-2R2MB	2.20		14	11.5	9.2	9.8	6.9	7.4
CKNR8040Z-2R7MB	2.70		16	13.0	8.2	9.0	6.5	7.0
CKNR8040Z-3R0MB	3.00		17	14.0	7.7	8.3	6.5	6.8
CKNR8040Z-3R3MB	3.30		18	15.0	7.5	8.0	6.2	6.6
CKNR8040Z-3R6MB	3.60		18	15.0	7.0	7.6	6.0	6.4
CKNR8040Z-3R9MB	3.90		19	16.0	6.6	7.0	5.8	6.1
CKNR8040Z-4R7MB	4.70		23	19.5	6.0	6.7	5.3	5.8
CKNR8040Z-5R6MB	5.60		26	22.0	5.8	6.2	5.2	5.4
CKNR8040Z-6R8MB	6.80		30	25.0	5.1	5.6	5.0	5.1
CKNR8040Z-8R2MB	8.20		36	30.0	4.6	5.3	4.5	4.8
CKNR8040Z-100MB	10.0		40	33.0	4.3	5.0	4.2	4.6
CKNR8040Z-150MB	15.0		60	50.0	3.6	4.0	3.2	3.6
CKNR8040Z-180MB	18.0		68	57.0	3.1	3.3	3.0	3.4
CKNR8040Z-220MB	22.0		88	73.0	2.8	3.1	2.5	2.9
CKNR8040Z-270MB	27.0		101	84.0	2.5	2.9	2.3	2.6

APPROVED BY	CHECKED BY	DRAFT BY
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2.SERIES SPECIFICATION

Part Number	Inductance	Teat Freq	DCR(m Ω)		Saturation Current (A)		Temp. Rise Current (A)	
	(μ H)		Max	Typ	Max	Typ	Max	Typ
CKNR8040Z-330MB	33.0	100KHz/1V	120	100	2.10	2.60	2.10	2.30
CKNR8040Z-390MB	39.0		144	120	2.00	2.40	1.90	2.15
CKNR8040Z-470MB	47.0		162	135	1.90	2.20	1.70	2.00
CKNR8040Z-560MB	56.0		192	160	1.60	1.90	1.60	1.75
CKNR8040Z-680MB	68.0		246	205	1.50	1.75	1.50	1.65
CKNR8040Z-820MB	82.0		276	230	1.40	1.60	1.30	1.40
CKNR8040Z-101MB	100		360	300	1.20	1.45	1.10	1.20
CKNR8040Z-121MB	120		420	350	1.10	1.30	1.00	1.10
CKNR8040Z-151MB	150		492	410	1.03	1.20	0.90	0.98
CKNR8040Z-181MB	180		588	490	0.94	1.04	0.83	0.91
CKNR8040Z-221MB	220		732	610	0.90	0.99	0.76	0.85
CKNR8040Z-271MB	270		888	740	0.80	0.85	0.70	0.77
CKNR8040Z-331MB	330		1020	850	0.70	0.75	0.66	0.70
CKNR8040Z-471MB	470		1560	1300	0.55	0.60	0.58	0.63
CKNR8040Z-681MB	680		2640	2200	0.50	0.55	0.55	0.60

◆TEST CONDITION

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

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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	DJ	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℃

*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 CKNR8040Z Series siZ inductors,absolute maximum voltage: D 50 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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4.PACKAGING(unit: mm)

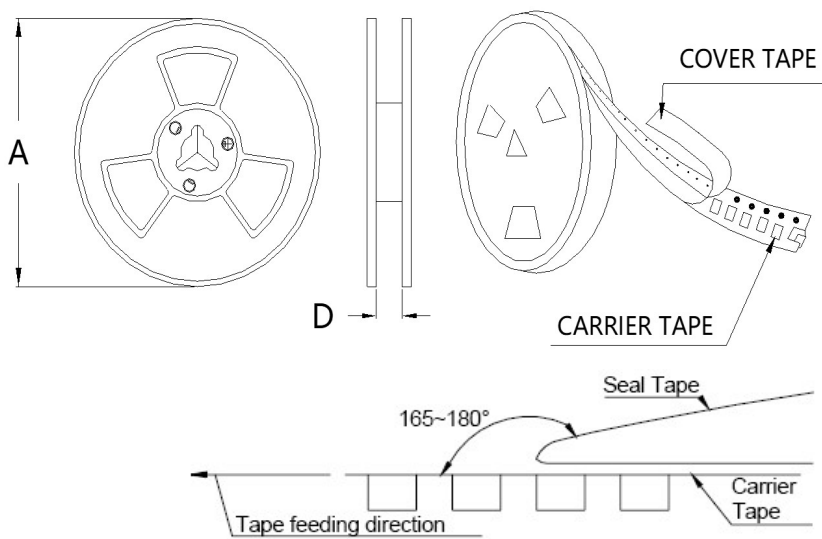
1.包装类型

2.包装尺寸



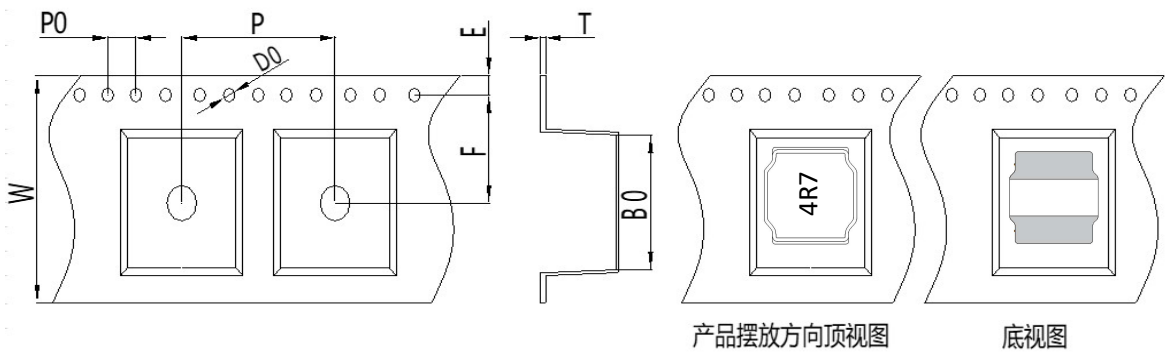
13" 盘

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		
DIM(mm)	16.0±0.3	8.3±0.1	12.0±0.1	0.4±0.1	1.75±0.1	7.5±0.1	1.5±0.1	4.0±0.1		

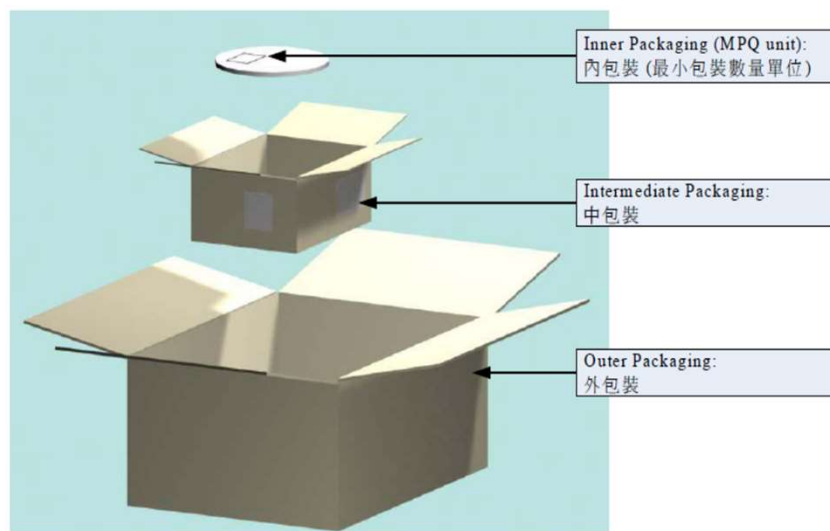
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5. CARTON



1.1 外箱: 36*36*23 cm 一箱裝 2內箱

1.2 內箱: 33.5*33.5*9 cm 一箱裝4卷制品

1.3 外箱材質: A三A

1.4 內箱材質: A=A

1.5 每4卷制品用一只静电袋包裝

1.6 每一静电袋內放一只袋干燥剂

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內实际内容明细

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	1000	PCS
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外箱包装数量

每箱	8	卷,共	8000	PCS
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內箱包装数量

每箱	2	卷,共	2000	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

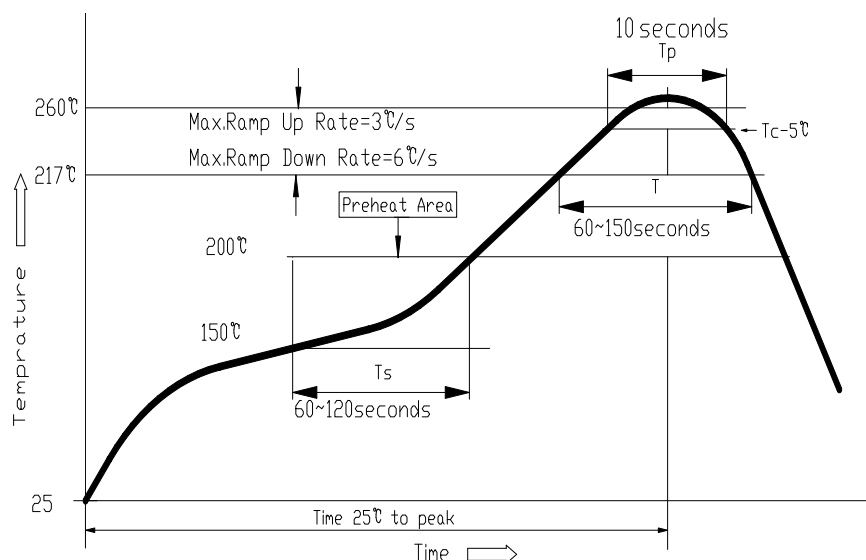
Applicable soldering process to the products is refl.

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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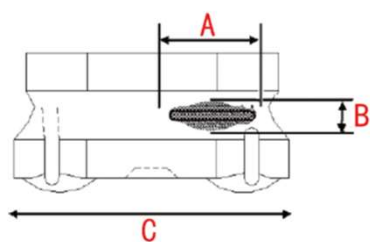


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8.Appearance of the standard

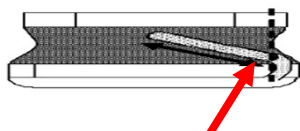
1.Void appearance tolerance limit



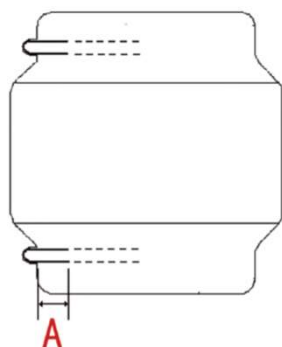
SiZ of voids occurring to coating resin is specified below.

- 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: CKNR8040Z-1R0YC

PART NO. CKNR8040Z Series

DRAWN NO.

TEST R.H. 80~85%

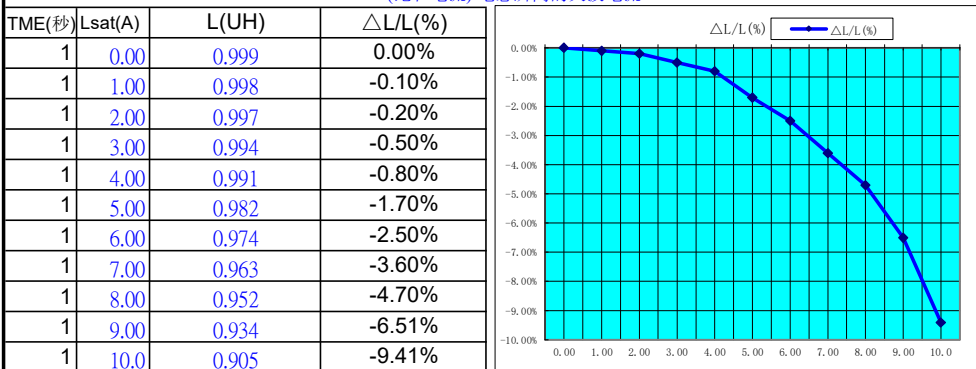
TEST TEMP. 20~25°C

DATE 2025/3/18

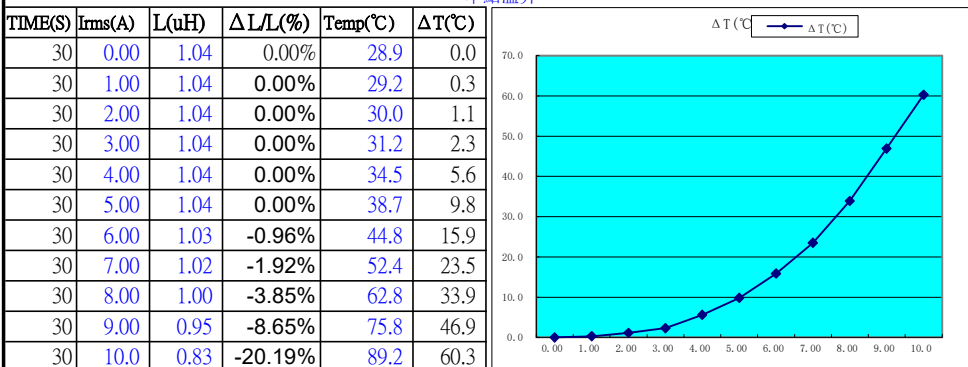
TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION								DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm
SPEC.	1.0 ± 30%	10.4 Max.	9.85 Max.	ΔL/L≤-30%	6.30 ΔT≤40℃ ℃				上限 7.8	8.2 7.8	4.20 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	0.95	8.38	0.86	-9.47%	OK				8.06	8.04	4.16
2	0.96	8.42	0.88	-8.33%	OK				8.07	8.05	4.13
3	0.98	8.09	0.87	-11.22%	OK				8.05	8.03	4.12
4	0.94	8.16	0.85	-9.57%	OK				8.06	8.06	4.09
5	0.95	8.23	0.84	-11.58%	OK				8.05	8.04	4.15
6	0.95	8.46	0.86	-9.47%	OK				8.06	8.05	4.13
7	0.96	8.38	0.87	-9.38%	OK				8.08	8.03	4.15
8	0.92	8.06	0.85	-7.61%	OK				8.04	8.04	4.12
9	0.98	8.19	0.86	-12.24%	OK				8.05	8.06	4.14
10	0.94	8.23	0.83	-11.70%	OK				8.08	8.05	4.11
AVG.	0.953	8.26	0.857	-10.06%					8.06	8.045	4.13
R	0.06	0.4	0.05	4.64%					0.04	0.03	0.07

Isat(飽和電流):電感瞬間の突波電流



單點溫昇



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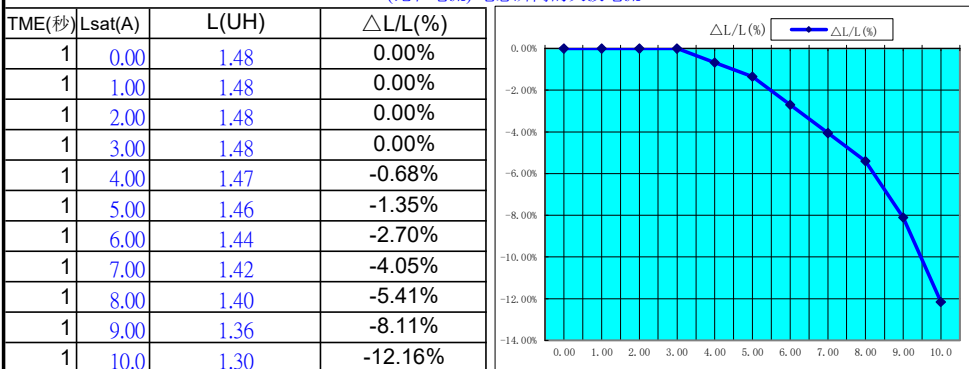
TEST TEMP. 20~25°C

DATE 2025/3/18

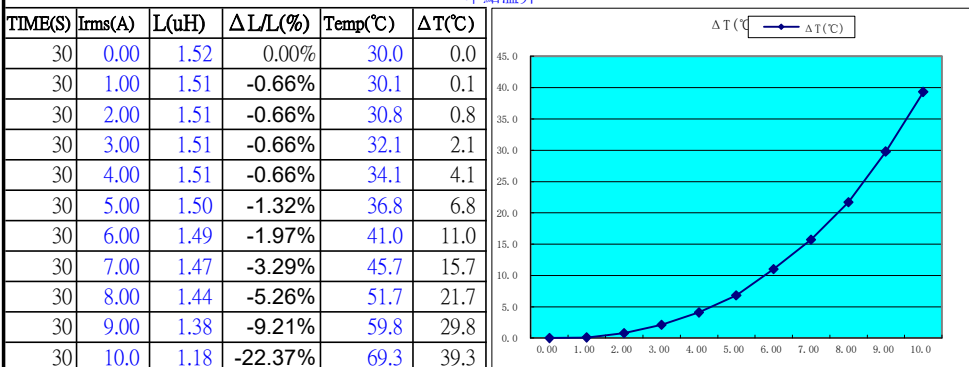
TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION							DIMENSION (Unit : mm)					
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm	
SPEC.	1.5 ± 30%	13 Max.	8.15 Max.	ΔL/L≤-30%	5.65 ΔT≤40℃ ℃				上限 下限	8.2 7.8	8.2 7.8	4.20 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	1.48	10.0	1.32	-10.81%	OK				8.06	8.02	4.09	
2	1.44	9.98	1.28	-11.11%	OK				8.04	8.04	4.12	
3	1.46	10.2	1.27	-13.01%	OK				8.06	8.03	4.16	
4	1.51	10.1	1.32	-12.58%	OK				8.07	8.02	4.14	
5	1.47	9.99	1.30	-11.56%	OK				8.08	8.06	4.15	
6	1.42	10.1	1.24	-12.68%	OK				8.04	8.04	4.08	
7	1.44	10.2	1.26	-12.50%	OK				8.06	8.02	4.12	
8	1.46	10.3	1.28	-12.33%	OK				8.07	8.04	4.13	
9	1.42	10.1	1.24	-12.68%	OK				8.09	8.05	4.15	
10	1.41	10.4	1.26	-10.64%	OK				8.04	8.02	4.07	
AVG.	1.451	10.137	1.277	-11.99%					8.061	8.034	4.121	
R	0.1	0.42	0.08	2.38%					0.05	0.04	0.09	

Isat(飽和電流):電感瞬間的突波電流



單點溫昇



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR8040Z-2R2MC

PART NO. CKNR8040Z Series

DRAWN NO.

TEST R.H. 80~85%

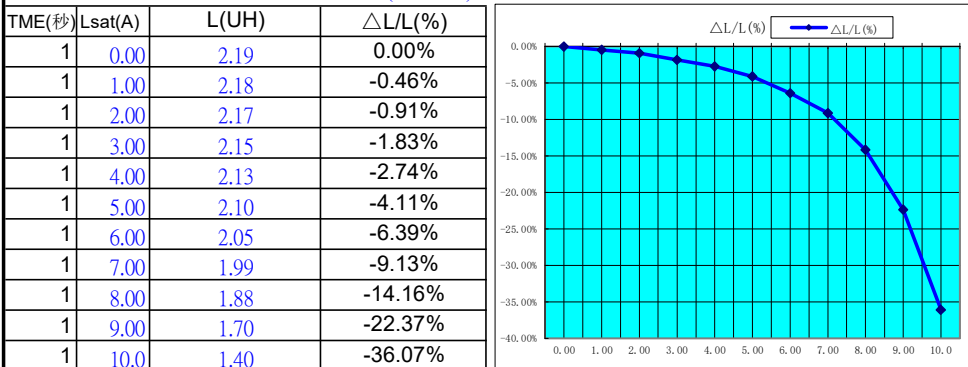
TEST TEMP. 20~25°C

DATE 2025/3/18

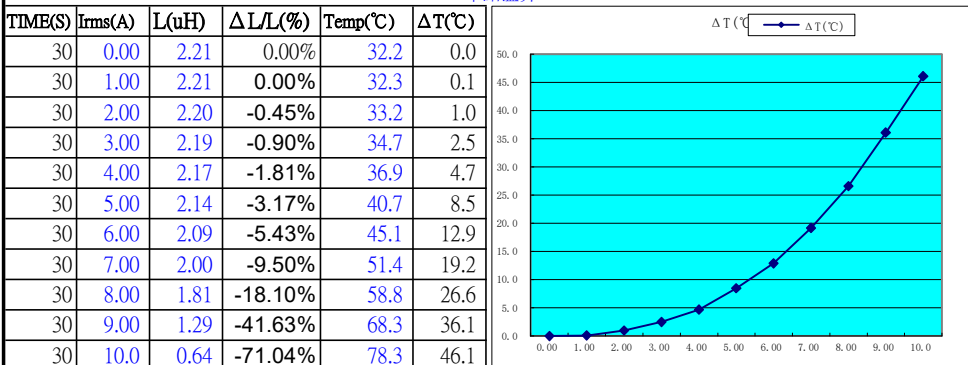
TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION								DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A				長 mm	寬 mm	高 mm
SPEC.	2.2 ± 20%	15.6 Max.	7.10 Max.	ΔL/L≤-30%	5.15 ΔT≤40℃ ℃				上限 8.2 下限 7.8	8.2 7.8	4.20 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	2.07	11.8	1.84	-11.11%	OK				8.05	8.06	4.09
2	2.16	12.0	1.90	-12.04%	OK				8.07	8.03	4.13
3	2.19	11.9	1.86	-15.07%	OK				8.03	8.05	4.15
4	2.08	12.3	1.82	-12.50%	OK				8.02	8.04	4.16
5	2.13	12.1	1.84	-13.62%	OK				8.06	8.02	4.12
6	2.19	11.8	1.91	-12.79%	OK				8.04	8.00	4.13
7	2.04	12.2	1.82	-10.78%	OK				8.05	8.02	4.15
8	2.18	11.9	1.80	-17.43%	OK				8.06	8.01	4.12
9	2.16	12.3	1.80	-16.67%	OK				8.05	8.02	4.13
10	2.21	12.1	1.86	-15.84%	OK				8.09	8.01	4.10
AVG.	2.141	12.04	1.845	-13.78%					8.0524	8.026	4.128
R	0.17	0.5	0.11	6.65%					0.07	0.06	0.07

Isat(飽和電流):電感瞬間的突波電流



單點溫昇



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR8040Z-3R3MC

PART NO. CKNR8040Z Series

DRAWN NO.

TEST R.H. 80~85%

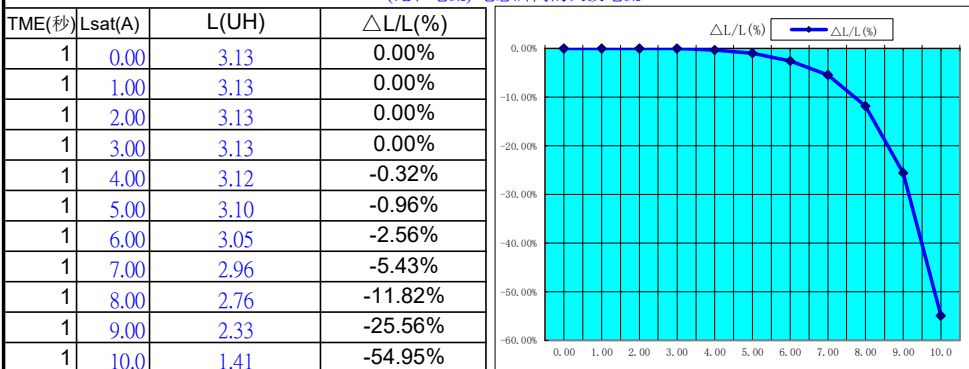
TEST TEMP. 20~25°C

DATE 2025/3/18

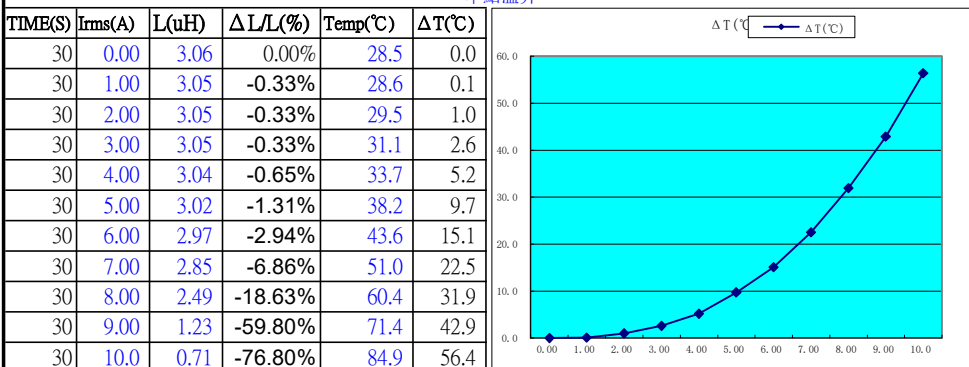
TEST DATA FOR PREPRODUCTION SAMPLE

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%	22.1 Max.	6.50 Max.	ΔL/L≤-30%	4.40 ΔT≤40℃ ℃			上限 下限	8.2 7.8	8.2 7.8 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	3.07	16.0	2.81	-8.47%	OK			8.03	8.03	4.10
2	3.09	16.4	2.83	-8.41%	OK			8.06	8.04	4.09
3	3.06	16.7	2.84	-7.19%	OK			8.09	8.02	4.13
4	3.05	16.4	2.83	-7.21%	OK			8.07	8.01	4.11
5	3.11	16.8	2.85	-8.36%	OK			8.06	8.03	4.10
6	3.15	16.5	2.84	-9.84%	OK			8.04	8.02	4.09
7	3.07	16.4	2.83	-7.82%	OK			8.06	8.01	4.13
8	3.12	16.8	2.86	-8.33%	OK			8.07	8.03	4.10
9	3.04	16.7	2.86	-5.92%	OK			8.03	8.04	4.09
10	3.15	16.4	2.88	-8.57%	OK			8.06	8.02	4.08
AVG.	3.091	16.51	2.843	-8.01%				8.057	8.025	4.102
R	0.11	0.8	0.07	3.92%				0.06	0.03	0.05

Isat(飽和電流):電感瞬間的突波電流



單點溫昇



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR8040Z-4R7MC

PART NO. CKNR8040Z Series

DRAWN NO.

TEST R.H. 80~85%

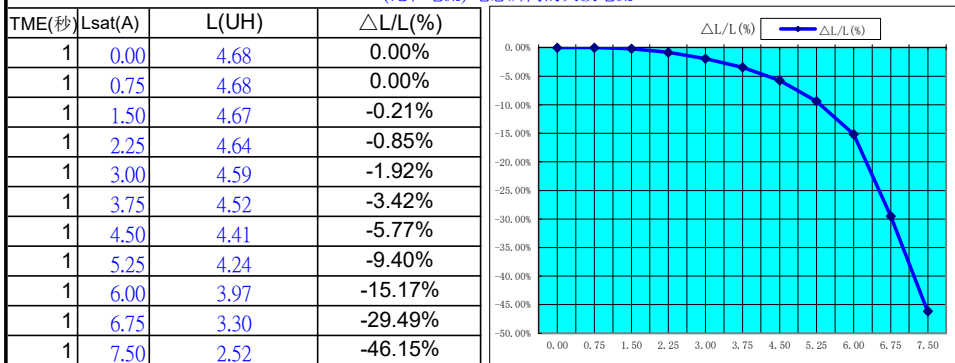
TEST TEMP. 20~25℃

DATE 2025/3/18

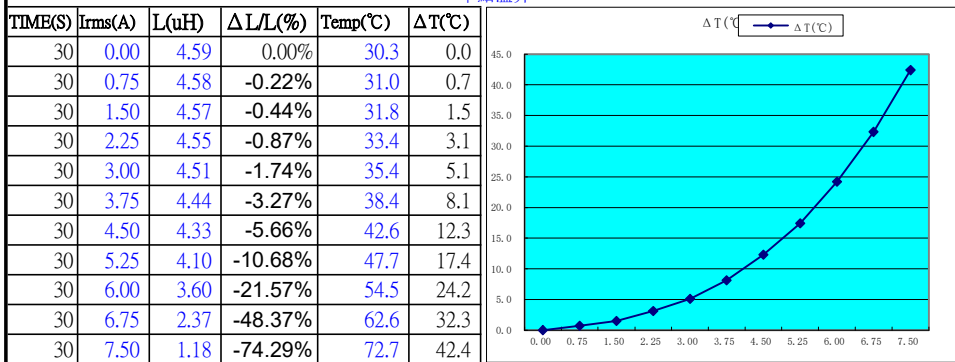
TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION							DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A			長 mm	寬 mm	高 mm
SPEC.	4.7 ± 20%	25 Max.	5.90 Max.	ΔL/L≤-30%	4.10 ΔT≤40℃ ℃			上限 8.2 下限 7.8	8.2 7.8	4.00 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	4.73	21.7	3.95	-16.49%	OK			8.03	8.02	3.96
2	4.68	21.9	3.98	-14.96%	OK			8.06	8.01	3.92
3	4.64	20.9	3.94	-15.09%	OK			8.04	8.02	3.96
4	4.60	21.8	3.93	-14.57%	OK			8.02	8.01	3.94
5	4.63	21.7	3.92	-15.33%	OK			8.03	8.03	3.96
6	4.59	21.6	3.93	-14.38%	OK			8.04	8.02	3.98
7	4.68	21.3	3.94	-15.81%	OK			8.02	8.05	3.92
8	4.74	21.5	3.92	-17.30%	OK			8.06	8.04	3.96
9	4.63	21.9	3.93	-15.12%	OK			8.04	8.02	3.94
10	4.59	21.7	3.94	-14.16%	OK			8.05	8.03	3.98
AVG.	4.651	21.6	3.938	-15.32%				8.039	8.025	3.952
R	0.15	1	0.06	3.14%				0.04	0.04	0.06

Isat(飽和電流):電感瞬間的突波電流



單點溫昇



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR8040Z-6R8MC

PART NO. CKNR8040Z Series

DRAWN NO.

TEST R.H. 80~85%

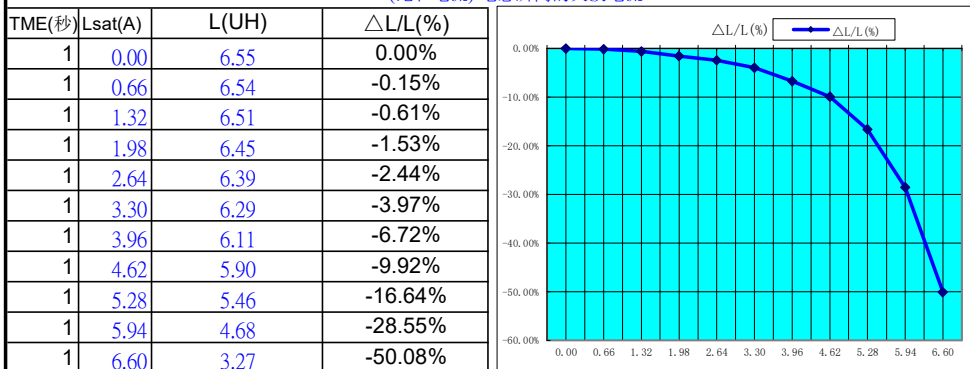
TEST TEMP. 20~25°C

DATE 2025/3/18

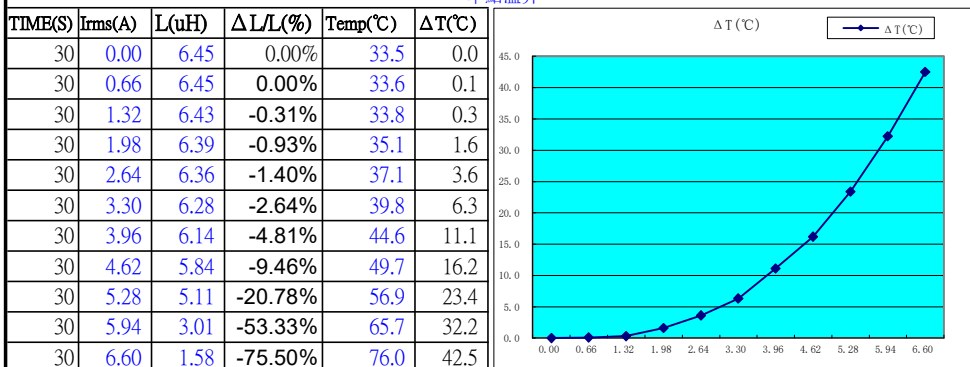
TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION							DIMENSION (Unit : mm)			
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A			長 mm	寬 mm	高 mm
SPEC.	6.8 ± 20%	33 Max.	4.55 Max.	ΔL/L≤ -30%	3.60 ΔT≤40℃			上限 8.2 下限 7.8	8.2 7.8	4.00 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	6.52	27.5	5.79	-11.20%	OK			8.02	8.04	3.95
2	6.44	26.8	5.79	-10.09%	OK			8.06	8.02	3.92
3	6.38	27.2	5.80	-9.09%	OK			8.04	8.03	3.98
4	6.62	26.8	5.89	-11.03%	OK			8.03	8.01	3.91
5	6.59	27.1	5.83	-11.53%	OK			8.07	8.05	3.96
6	6.68	26.9	5.89	-11.83%	OK			8.09	8.04	3.92
7	6.73	26.4	5.84	-13.22%	OK			8.05	8.01	3.89
8	6.58	27.3	5.88	-10.64%	OK			8.09	8.00	3.91
9	6.64	27.8	5.89	-11.30%	OK			8.05	8.02	3.93
10	6.79	26.7	5.83	-14.14%	OK			8.03	8.00	3.97
AVG.	6.597	27.05	5.843	-11.41%				8.053	8.022	3.934
R	0.41	1.4	0.1	5.05%				0.07	0.05	0.09

Isat(飽和電流):電感瞬間の突波電流



單點溫昇



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR8040Z-100MC

PART NO. CKNR8040Z Series

DRAWN NO.

TEST R.H. 80~85%

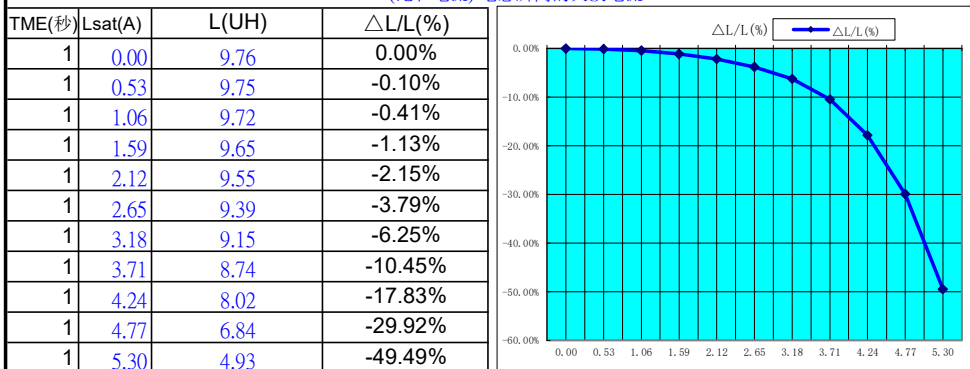
TEST TEMP. 20~25℃

DATE 2025/3/18

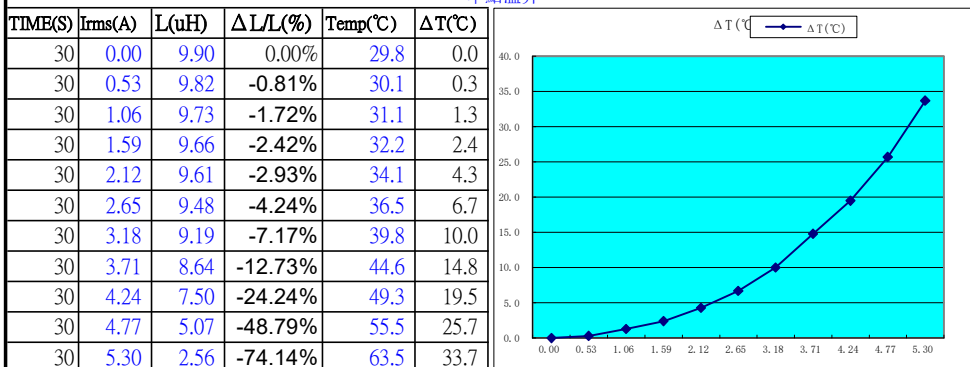
TEST DATA FOR PREPRODUCTION SAMPLE

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 ± 20%	48 Max.	3.6 Max.	ΔL/L≤-30%	3.30 ΔT≤40℃ ℃			上限 下限	8.2 7.8	8.2 7.8 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	9.96	37.1	8.12	-18.5%	OK			8.06	8.02	3.96
2	9.70	37.0	8.21	-15.4%	OK			8.04	8.03	3.94
3	9.63	36.9	8.25	-14.3%	OK			8.09	8.01	3.92
4	9.87	37.2	8.26	-16.3%	OK			8.03	8.03	3.89
5	9.54	37.4	8.35	-12.5%	OK			8.07	8.02	3.94
6	9.59	36.7	8.39	-12.5%	OK			8.05	8.04	3.90
7	10.1	36.9	8.40	-16.8%	OK			8.04	8.03	3.89
8	9.57	37.1	8.39	-12.3%	OK			8.03	8.02	3.96
9	9.94	37.0	8.45	-15.0%	OK			8.06	8.04	3.94
10	9.91	35.9	8.51	-14.1%	OK			8.04	8.01	3.92
AVG.	9.781	36.92	8.333	-14.77%				8.051	8.025	3.926
R	0.56	1.5	0.39	6.14%				0.06	0.03	0.07

Isat(飽和電流):電感瞬間的突波電流



單點溫昇



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR8040Z-150MC

PART NO. CKNR8040Z Series

DRAWN NO.

TEST R.H. 80~85%

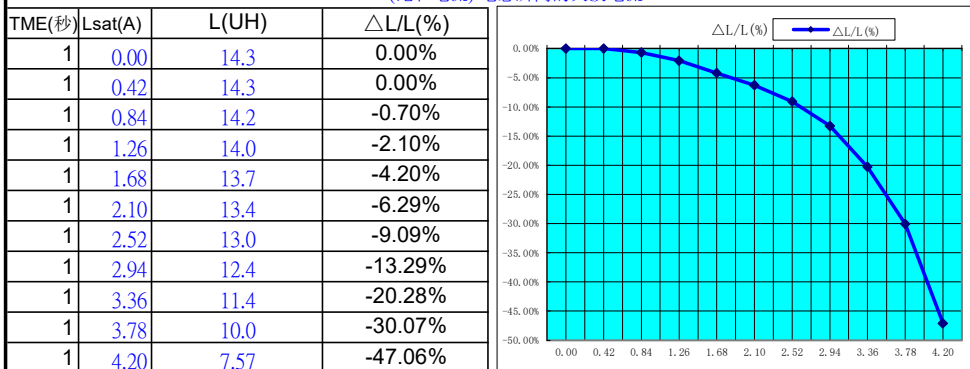
TEST TEMP. 20~25°C

DATE 2025/3/18

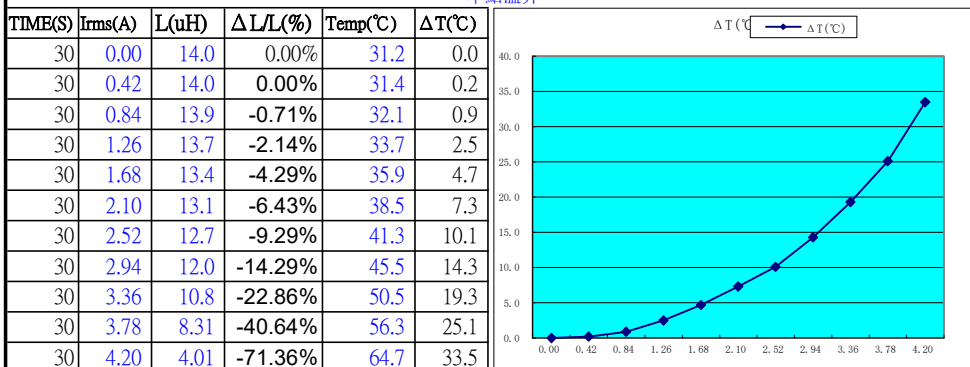
TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION							DIMENSION (Unit : mm)				
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A			長 mm	寬 mm	高 mm	
SPEC.	15.0 ± 20%	61.1 Max.	2.95 Max.	ΔL/L≤ -30%	2.60 ΔT≤40℃ ℃			上限 下限	8.2 7.8	8.2 7.8	4.00 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	14.9	47.5	12.3	-17.45%	OK			8.06	8.06	3.96	
2	14.3	47.3	12.2	-14.69%	OK			8.03	8.03	3.92	
3	14.1	47.8	12.0	-14.89%	OK			8.08	8.02	3.94	
4	15.0	48.1	12.3	-18.00%	OK			8.03	8.01	3.90	
5	14.9	47.6	12.1	-18.79%	OK			8.05	8.05	3.89	
6	14.3	46.9	12.2	-14.69%	OK			8.04	8.03	3.92	
7	14.6	47.3	12.3	-15.75%	OK			8.06	8.00	3.91	
8	14.8	47.9	12.3	-16.89%	OK			8.03	8.02	3.90	
9	14.3	48.6	12.1	-15.38%	OK			8.02	8.03	3.88	
10	14.7	47.7	12.3	-16.33%	OK			8.00	8.01	3.90	
AVG.	14.590	47.67	12.21	-16.29%				8.04	8.026	3.912	
R	0.9	1.7	0.3	4.11%				0.08	0.06	0.08	

Isat(飽和電流):電感瞬間的突波電流



單點溫昇



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR8040Z-220MC

PART NO. CKNR8040Z Series

DRAWN NO.

TEST R.H. 80~85%

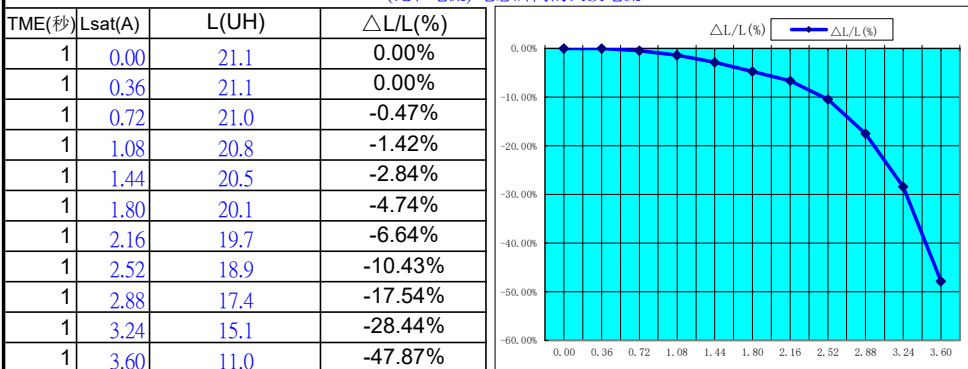
TEST TEMP. 20~25°C

DATE 2025/3/18

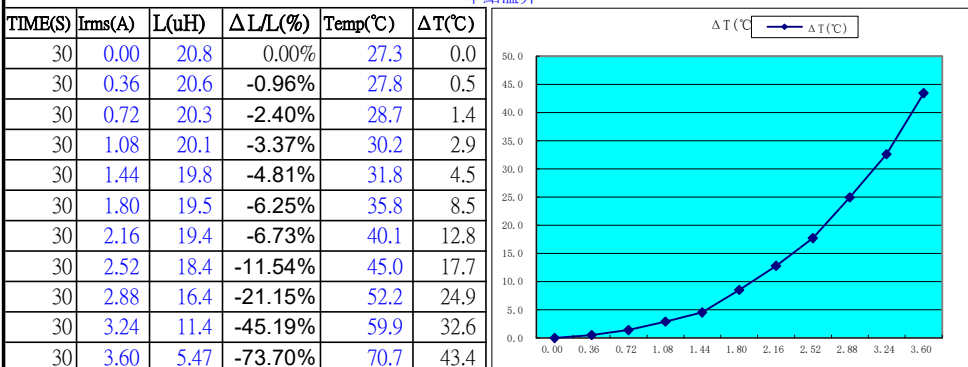
TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION							DIMENSION (Unit : mm)				
MEAS. ITEM	L μh	DCR mΩ	Isat A	ΔL/L	Irms A			長 mm	寬 mm	高 mm	
SPEC.	22.0 ± 20%	89.7 Max.	2.40 Max.	ΔL/L≤-30%	2.10 ΔT≤40°C ℃			上限 下限	8.2 7.8	8.2 7.8	4.00 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	21.1	72.7	18.9	-10.43%	OK			8.05	8.02	3.92	
2	20.6	72.4	18.2	-11.65%	OK			8.02	8.01	3.88	
3	21.6	73.3	19.0	-12.04%	OK			8.04	8.02	3.93	
4	20.9	72.9	18.6	-11.00%	OK			8.06	8.03	3.95	
5	22.0	73.8	19.2	-12.73%	OK			8.05	8.02	3.89	
6	20.8	72.6	18.6	-10.58%	OK			8.07	8.01	3.92	
7	21.6	73.8	18.9	-12.50%	OK			8.03	8.02	3.88	
8	20.4	72.9	18.2	-10.78%	OK			8.04	8.03	3.90	
9	21.8	73.8	18.9	-13.30%	OK			8.05	8.02	3.93	
10	22.3	72.1	19.3	-13.45%	OK			8.02	8.01	3.92	
AVG.	21.310	73.03	18.78	-11.85%				8.043	8.019	3.912	
R	1.9	1.7	1.1	3.03%				0.05	0.02	0.07	

Isat(飽和電流):電感瞬間の突波電流



單點溫昇



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR8040Z-330MC

PART NO. CKNR8040Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25°C

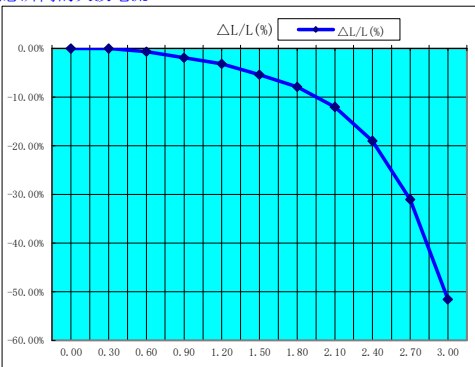
DATE 2025/3/18

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 ± 20%	127 Max.	2.05 Max.	ΔL/L≤-30%	1.80 ΔT≤40℃				上限 下限	8.2 7.8	8.2 7.8	4.00 MAX
TEST FREQ.	100KHz/1V		100KHz/1V									
1	31.7	105	27.9	-11.99%	OK				8.03	8.01	3.88	
2	32.3	106	27.8	-13.93%	OK				8.06	8.00	3.92	
3	33.1	103	27.6	-16.62%	OK				8.05	8.02	3.89	
4	32.9	102	27.6	-16.11%	OK				8.04	8.01	3.96	
5	31.6	104	27.8	-12.03%	OK				8.03	8.03	3.91	
6	32.8	105	27.6	-15.85%	OK				8.07	8.02	3.90	
7	33.4	108	27.9	-16.47%	OK				8.05	8.04	3.92	
8	32.4	103	27.8	-14.20%	OK				8.03	8.03	3.93	
9	31.8	104	27.7	-12.89%	OK				8.02	8.01	3.94	
10	32.6	106	27.9	-14.42%	OK				8.04	8.02	3.88	
AVG.	32.460	104.6	27.76	-14.45%					8.042	8.0193	3.913	
R	1.8	6	0.3	4.63%					0.05	0.037	0.08	

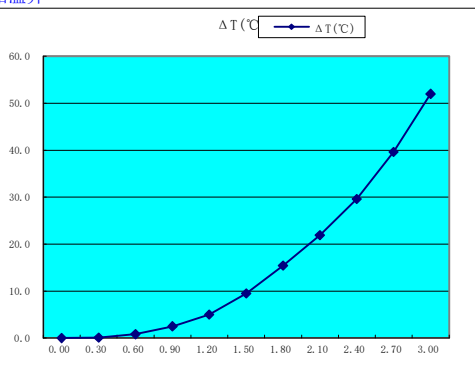
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	31.6	0.00%
1	0.30	31.6	0.00%
1	0.60	31.4	-0.63%
1	0.90	31.0	-1.90%
1	1.20	30.6	-3.16%
1	1.50	29.9	-5.38%
1	1.80	29.1	-7.91%
1	2.10	27.8	-12.03%
1	2.40	25.6	-18.99%
1	2.70	21.8	-31.01%
1	3.00	15.3	-51.58%



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TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(°C)	ΔT(°C)
30	0.00	31.2	0.00%	29.7	0.0
30	0.30	31.2	0.00%	29.8	0.1
30	0.60	31.0	-0.64%	30.5	0.8
30	0.90	30.7	-1.60%	32.2	2.5
30	1.20	30.2	-3.21%	34.7	5.0
30	1.50	29.6	-5.13%	39.2	9.5
30	1.80	28.7	-8.01%	45.1	15.4
30	2.10	26.9	-13.78%	51.6	21.9
30	2.40	22.5	-27.88%	59.3	29.6
30	2.70	10.8	-65.38%	69.3	39.6
30	3.00	6.67	-78.62%	81.7	52.0



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR8040Z-470MC

PART NO. CKNR8040Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25°C

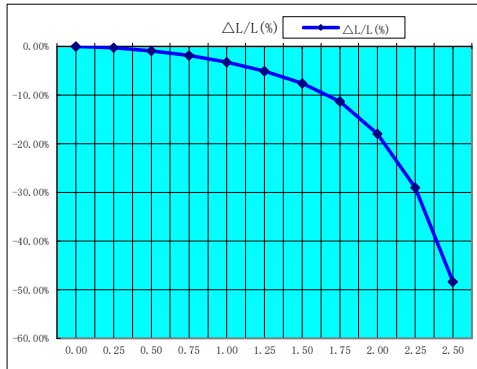
DATE 2025/3/18

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%	179 Max.	1.75 Max.	ΔL/L≤-30%	1.55 ΔT≤40℃ ℃				上限 8.2 下限 7.8	8.2 7.8	4.00 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	43.3	142	37.7	-12.93%	OK				8.02	8.02	3.91
2	46.8	144	38.2	-18.38%	OK				8.06	8.01	3.88
3	44.5	146	37.6	-15.51%	OK				8.03	8.03	3.92
4	46.5	142	38.9	-16.34%	OK				8.08	8.04	3.90
5	47.3	143	38.3	-19.03%	OK				8.02	8.03	3.88
6	48.1	141	38.8	-19.33%	OK				8.05	8.02	3.94
7	45.3	142	38.6	-14.79%	OK				8.06	8.01	3.92
8	44.3	145	37.9	-14.45%	OK				8.04	8.03	3.90
9	42.9	143	37.9	-11.66%	OK				8.05	8.04	3.89
10	43.8	142	37.7	-13.93%	OK				8.03	8.02	3.94
AVG.	45.280	143	38.16	-15.63%					8.044	8.025	3.908
R	5.2	5	1.3	7.68%					0.06	0.03	0.06

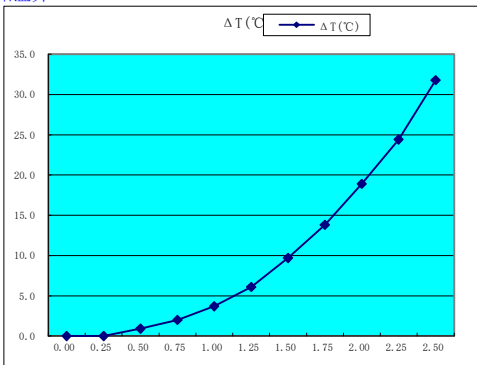
Isat(飽和電流):電感瞬間の突波電流

TME(秒)	Lsat(A)	L(UH)	ΔL/L(%)
1	0.00	43.4	0.00%
1	0.25	43.3	-0.23%
1	0.50	43.0	-0.92%
1	0.75	42.6	-1.84%
1	1.00	42.0	-3.23%
1	1.25	41.2	-5.07%
1	1.50	40.1	-7.60%
1	1.75	38.5	-11.29%
1	2.00	35.6	-17.97%
1	2.25	30.8	-29.03%
1	2.50	22.4	-48.39%



單點溫昇

TIME(S)	Irms(A)	L(uH)	ΔL/L(%)	Temp(°C)	ΔT(°C)
30	0.00	42.8	0.00%	27.9	0.0
30	0.25	42.4	-0.93%	27.9	0.0
30	0.50	41.9	-2.10%	28.8	0.9
30	0.75	41.3	-3.50%	29.9	2.0
30	1.00	40.7	-4.91%	31.6	3.7
30	1.25	40.0	-6.54%	34.0	6.1
30	1.50	39.0	-8.88%	37.6	9.7
30	1.75	37.3	-12.85%	41.7	13.8
30	2.00	33.9	-20.79%	46.8	18.9
30	2.25	25.7	-39.95%	52.3	24.4
30	2.50	12.7	-70.33%	59.7	31.8



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR8040Z-680MC

PART NO. CKNR8040Z Series

DRAWN NO.

TEST R.H. 80~85%

TEST TEMP. 20~25°C

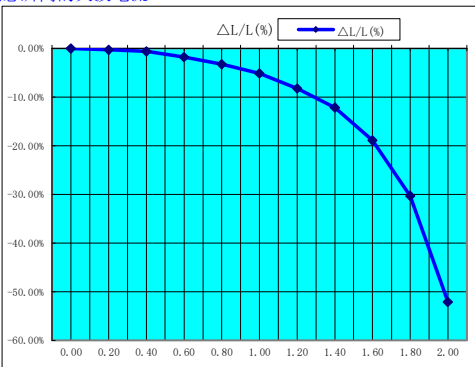
DATE 2025/3/18

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.	68.0 ± 20%	258 Max.	1.45 Max.	ΔL/L≤-30%	1.25 ΔT≤40℃ ℃				上限 下限	8.2 7.8	8.2 7.8 4.00 MAX
TEST FREQ.	100KHz/1V		100KHz/1V								
1	67.8	214	58.1	-14.31%	OK				8.02	8.02	3.91
2	66.5	216	58.6	-11.88%	OK				8.06	8.01	3.88
3	68.3	213	58.3	-14.64%	OK				8.03	8.03	3.92
4	67.2	215	58.1	-13.54%	OK				8.08	8.04	3.90
5	65.4	218	58.0	-11.31%	OK				8.02	8.03	3.88
6	66.9	214	57.9	-13.45%	OK				8.05	8.02	3.94
7	67.9	218	58.4	-13.99%	OK				8.06	8.01	3.92
8	68.3	213	58.1	-14.93%	OK				8.04	8.03	3.90
9	64.3	219	57.6	-10.42%	OK				8.05	8.04	3.89
10	65.8	214	58.2	-11.55%	OK				8.03	8.02	3.94
AVG.	66.840	215.4	58.13	-13.00%					8.044	8.025	3.908
R	4	6	1	4.51%					0.06	0.03	0.06

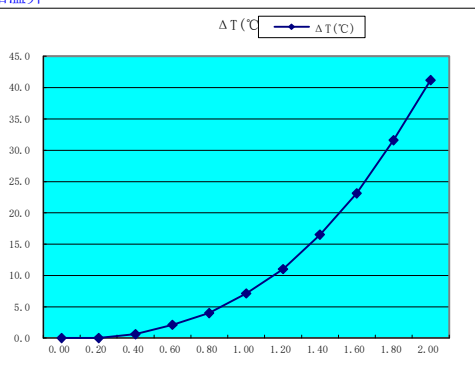
Isat(飽和電流):電感瞬間的突波電流

TME(秒)	Lsat(A)	L(UH)	$\Delta L/L(\%)$
1	0.00	68.3	0.00%
1	0.20	68.1	-0.29%
1	0.40	67.9	-0.59%
1	0.60	67.1	-1.76%
1	0.80	66.1	-3.22%
1	1.00	64.8	-5.12%
1	1.20	62.7	-8.20%
1	1.40	60.0	-12.15%
1	1.60	55.4	-18.89%
1	1.80	47.6	-30.31%
1	2.00	32.7	-52.12%



單點溫昇

TIME(S)	Irms(A)	L(uH)	$\Delta L/L(\%)$	Temp(°C)	$\Delta T(^{\circ}C)$
30	0.00	66.5	0.00%	29.4	0.0
30	0.20	66.5	0.00%	29.4	0.0
30	0.40	65.8	-1.05%	30.0	0.6
30	0.60	64.9	-2.41%	31.5	2.1
30	0.80	63.9	-3.91%	33.4	4.0
30	1.00	62.4	-6.17%	36.5	7.1
30	1.20	60.7	-8.72%	40.4	11.0
30	1.40	57.8	-13.08%	45.9	16.5
30	1.60	51.2	-23.01%	52.5	23.1
30	1.80	32.9	-50.53%	61.0	31.6
30	2.00	15.7	-76.39%	70.6	41.2



承认书



SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER'S P/N

JINKAI P/N: CKNR8040Z-101MC

PART NO. CKNR8040Z Series

DRAWN NO.

TEST R.H. 80~85%

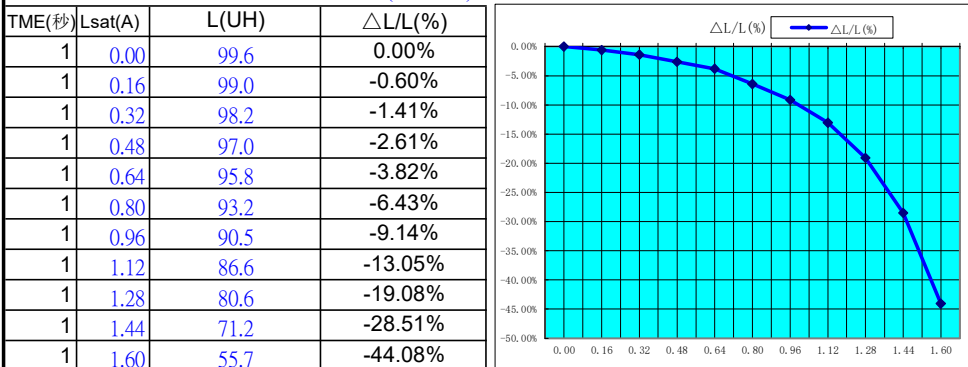
TEST TEMP. 20~25°C

DATE 2025/3/18

TEST DATA FOR PREPRODUCTION SAMPLE

TEST RESOLUTION								DIMENSION (Unit : mm)		
MEAS.	L	DCR	Isat	$\Delta L/L$	Irms			長	寬	高
ITEM	μH	m Ω	A		A			mm	mm	mm
SPEC.	100.0 $\pm$ 20%	377 Max.	1.15 Max.	$\Delta L/L \leq -30\%$	1.00 $\Delta T \leq 40^\circ C$			上限 下限	8.2 7.8	8.2 7.8 MAX
TEST FREQ.	100KHz/1V		100KHz/1V							
1	98.3	296	84.7	-13.84%	OK			8.05	8.02	3.92
2	97.9	299	85.5	-12.67%	OK			8.02	8.01	3.88
3	96.7	297	85.1	-12.00%	OK			8.04	8.02	3.93
4	94.5	298	84.3	-10.79%	OK			8.06	8.03	3.95
5	99.6	302	83.2	-16.47%	OK			8.05	8.02	3.89
6	98.3	298	84.6	-13.94%	OK			8.07	8.01	3.92
7	97.2	299	85.3	-12.24%	OK			8.03	8.02	3.88
8	96.3	301	85.2	-11.53%	OK			8.04	8.03	3.90
9	95.4	303	84.6	-11.32%	OK			8.05	8.02	3.93
10	98.6	299	83.8	-15.01%	OK			8.02	8.01	3.92
AVG.	97.280	299.2	84.63	-12.98%				8.043	8.019	3.912
R	5.1	7	2.3	5.67%				0.05	0.02	0.07

Isat(飽和電流):電感瞬間的突波電流



單點溫昇

