

承 认 书

SPECIFICATION FOR APPROVAL

客 户 名 称:

Customer Name: _____

客 户 料 号 :

Customer P/N: _____

产 品 名 称:

贴片电感

Product Name: _____

产 品 料 号:

OLIM4020系列

Product P/N: _____

客户承认栏 APPROVED FOR CUSTOMER	DRAWN (制图)	CHECKED (检查)	APPROVED (确认)
	邓晓婷	王剑锋	李凯豪
	2025-08-19	2025-08-19	2025-08-19
确认无误后敬请签回 (Please Return After Approved)			

深圳市一络电子科技有限公司

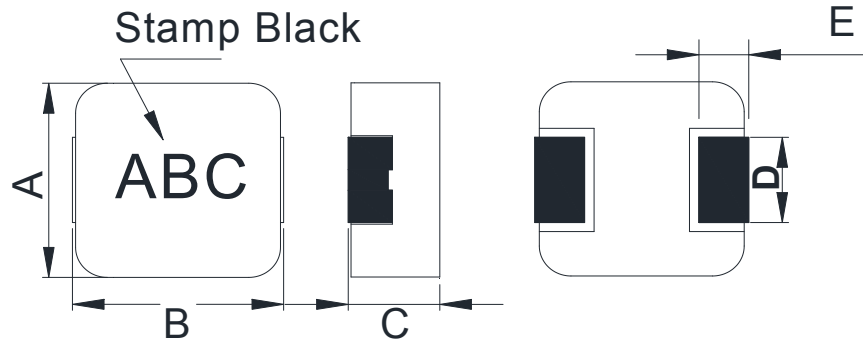
联系人: 严小姐 13528791609

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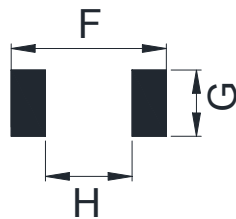
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1. DIMENSIONS (UNIT : mm)



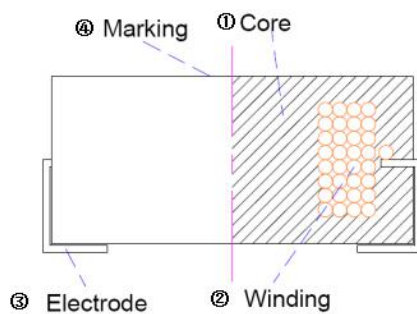
A	B	C	D	E
4.1±0.25	4.6±0.2.	2.0 Max.	1.5±0.30	1.0±0.50

2. RECOMMENDED LAND PATTERN (UNIT: mm)



F	5.2 Ref.
G	2.5 Ref.
H	2.2 Ref.

3. STRUCTURE



No.	PARTS	MATERIAL
①	CORE	Alloy powder
②	WIRE	Self bonding polyamide-imide enameled Copper Wire
③	ELECTRODE	Cu
④	MARKING	INK

APPROVAL	CHECK	DESIGN	

ONELORD ELECTRONICS CO.,LIMITED

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4.CHARACTERISTICS

No.	OneLord P/N.	Inductance (μH)	Stamp	D.C.R. (mΩ) Max.	Saturation current (A)Typ.	Temperature rise current(A)Typ. (ΔT≤40℃)
01	OLIM4020-R47M	0.47±20%	R47	14	9.5	7.0
02	OLIM4020-R68M	0.68±20%	R68	21	8.0	5.2
03	OLIM4020-1R0M	1.0±20%	1R0	27	7.0	4.5
04	OLIM4020-1R5M	1.5±20%	1R5	46	6.0	4.0
05	OLIM4020-2R2M	2.2±20%	2R2	58	5.0	3.0
06	OLIM4020-3R3M	3.3±20%	3R3	87	4.0	2.5
07	OLIM4020-4R7M	4.7±20%	4R7	126	3.0	2.2
08	OLIM4020-5R6M	5.6±20%	5R6	132	2.8	2.1
09	OLIM4020-6R8M	6.8±20%	6R8	145	2.5	2.0
10	OLIM4020-8R2M	8.2±20%	8R2	216	2.5	2.0
11	OLIM4020-100M	10±20%	100	258	2.0	1.6

* Testing instrument: Inductance HP 4284A or equivalent at 100KHz /1V..

D.C.R : TH2512B or equivalent. (Ta= 25℃)

Saturation current: WK 3260B+3265B or equivalent.

* Saturation Current (Isat) will cause L0 to drop approximately 30% from its value without current. (Ta=25℃)

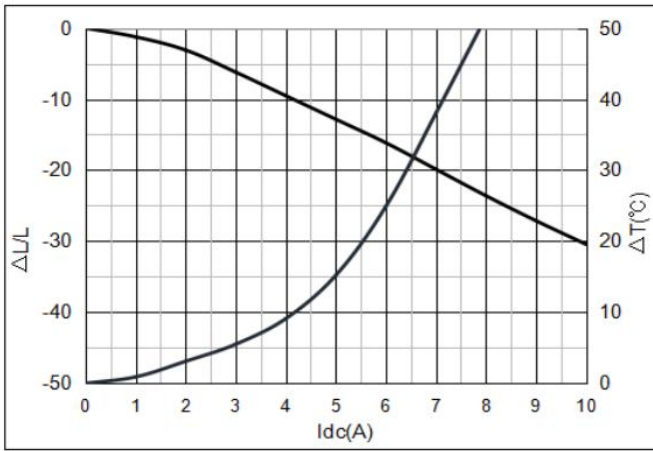
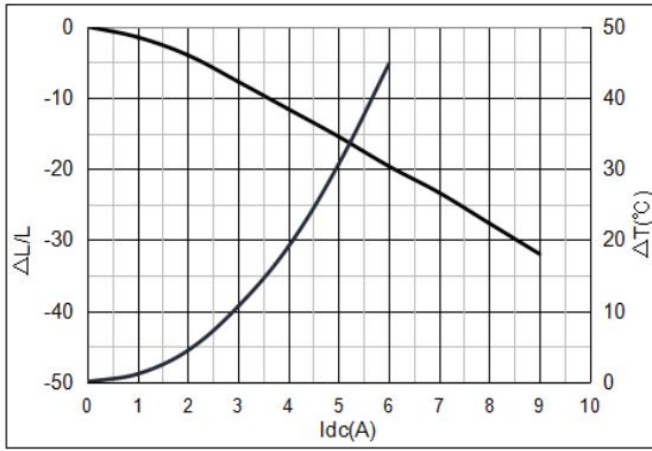
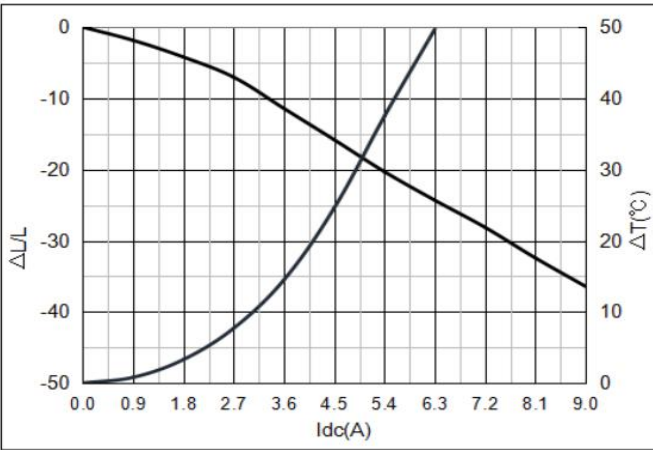
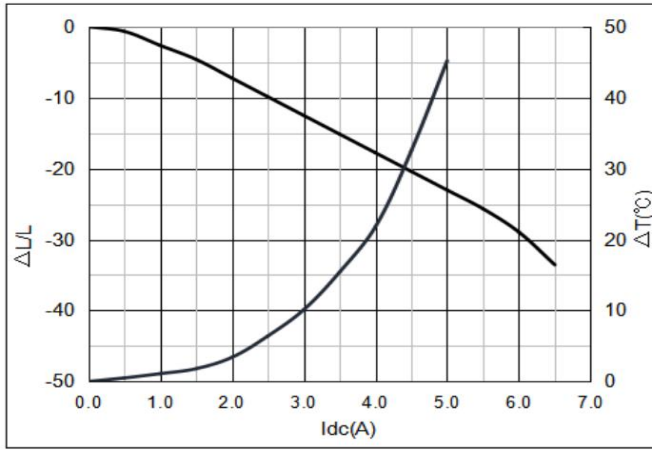
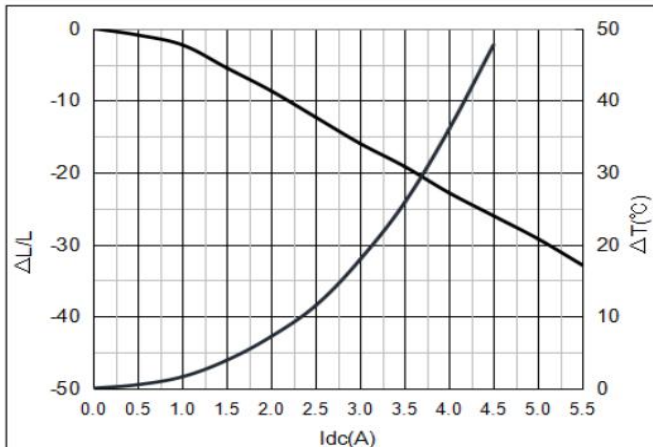
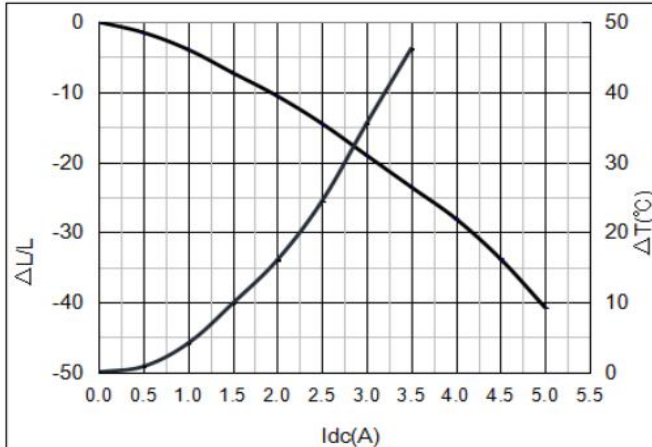
* The temperature rise current value is the DC current value having temperature increase up to approximately 40℃(Ta=25℃)

* Absolute maximum voltage 30VDC

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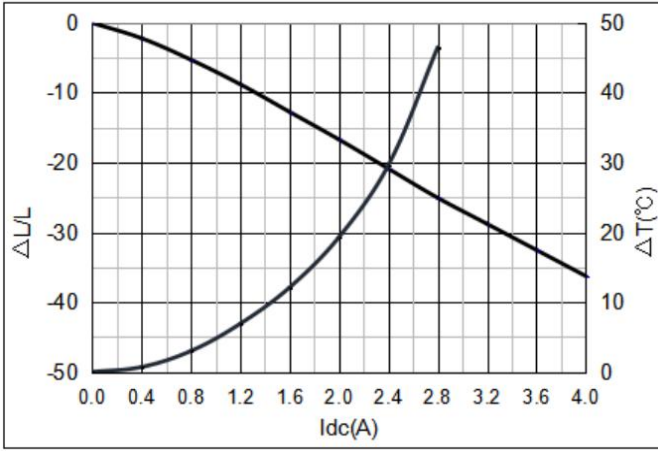
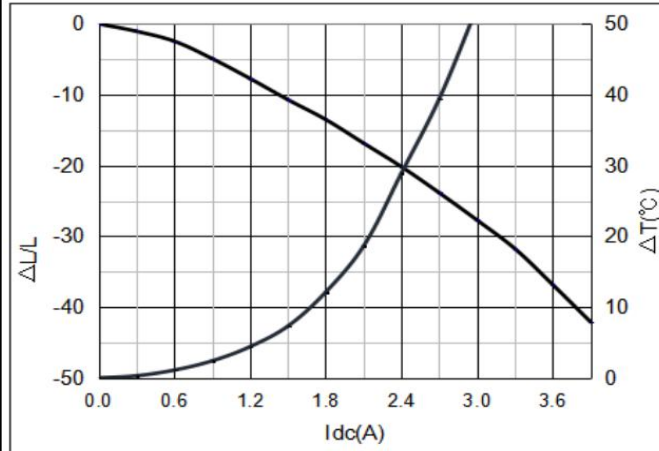
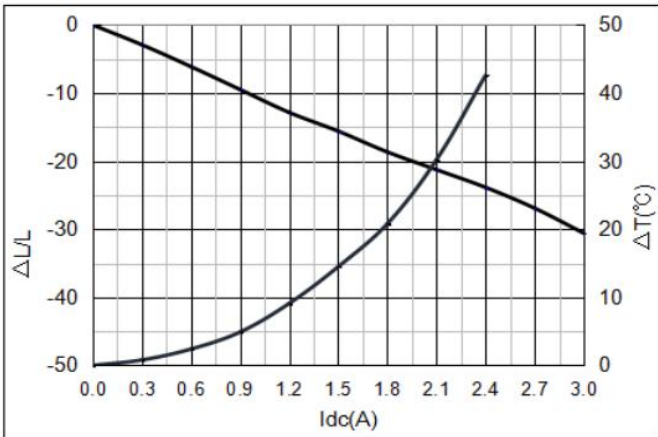
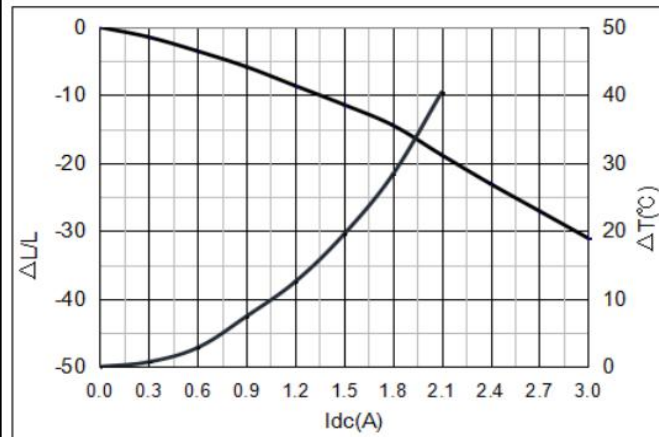
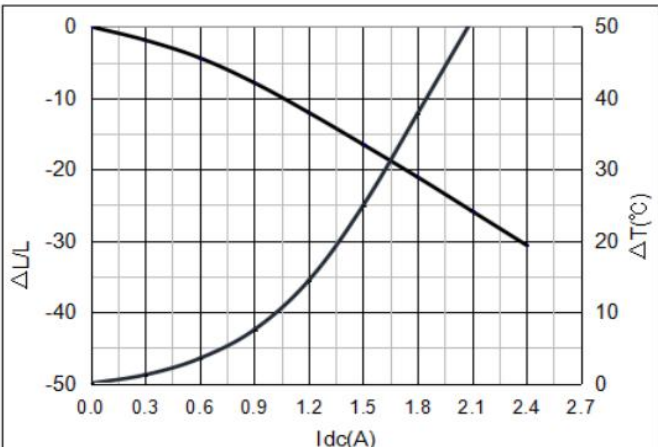
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OLIM4020-R47M				OLIM4020-R68M			
							
OLIM4020-1R0M				OLIM4020-1R5M			
							
OLIM4020-2R2M				OLIM4020-3R3M			
							
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OLIM4020-4R7M				OLIM4020-5R6M			
							
OLIM4020-6R8M				OLIM4020-8R2M			
							
OLIM4020-100M							
							
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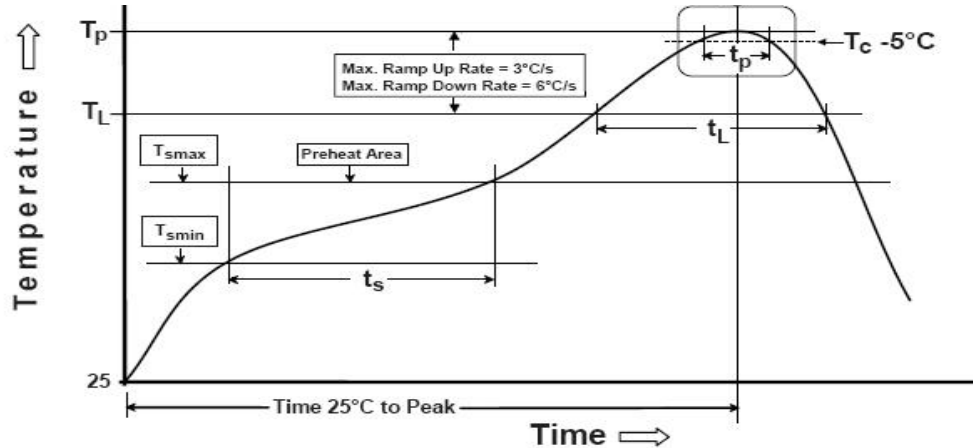
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5.GENERAL CHARACTERISTICS * STANDARD TESTING CONDITIONS: UNLESS OTHERWISE SPECIFIED, THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MEASUREMENTS AND TESTS ARE AS FOLLOWS: AMBIENT TEMPERATURE: 15℃~35℃. RELATIVE HUMIDITY : 25% ~85%. AIR PRESSURE : 86kPa ~106kPa. IF THERE IS ANY DOUBT ABOUT THE RESULTS, MEASUREMENT SHALL BE MADE WITHIN THE FOLLOWING LIMITS: AMBIENT TEMPERATURE: 20℃±1℃. RELATIVE HUMIDITY: 63% ~67%. AIR PRESSURE : 86kPa ~106kPa.							
No.	ITEMS	CONDITIONS			SPECIFICATION		
1	OPERATION TEMPERATURE STORAGE TEMPERATURE				-40 ~ + 125℃ (INCLUDING COIL TEMPERATURE RISE) -40 ~ + 125℃		
2	TEMPERATURE COEFFICIENT	-30 ~ +105℃			0 ~ 2000 ppm/℃		
3	FIXING STRENGTH	SAMPLE IS PUSHED IN THREE DIRECTIONS OF X, Y AND Z WITH FORCE OF 5. 0N FOR 10±5 SECONDS. AFTER SOLDERING BETWEEN COPPER PLATE AND ELECTRODES.			NO ELECTRODE DETACHMENT.		
4	RESISTANCE TO SOLDERING HEAT TEST	REFER TO THE SPEC “STD-001NP”.			NO MECHANICAL BREAKAGE. DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±10%		
5	SOLDERABILITY TEST	IMMERSE THE ELECTRODE IN FLUX FOR 5 SECONDS. THEN DIP THE ELECTRODE INTO A SOLDERING BATH OF 245±5℃ FOR 2±0.5 SECONDS.			OVER 95% OF THE SURFACE BEING IMMersed SHALL BE COVERED WITH NEW SOLDER UNIFORMLY.		
6	VIBRATION TEST	AMPLITUDE: 1.5mm P-P FREQUENCY:10~55~10Hz (1 MINUTE PER CYCLE) DURATION: 1 HOUR IN EACH OF X, Y, Z AXIS.			DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±10%		
7	HUMIDITY TEST	TEMPERATURE: 40℃±2℃ HUMIDITY: 90%~95%RH DURATION: 96±4 HOURS.			DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±10%		
8	THERMAL SHOCK TEST	20 CYCLES OF +105℃ FOR 30 MINUTES, -40℃ FOR 30 MINUTES. CHARACTERISTICS ARE MEASURED AFTER THE AMBIENT AIR EXPOSURE OF 1 HOUR			DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±10%		
9	HIGH TEMPERATURE STORAGE TEST	TEMPERATURE: 125℃±2℃ DURATION: 96±4 HOURS					
10	LOW TEMPERATURE STORAGE TEST	TEMPERATURE: -40℃±3℃ DURATION: 96±4 HOURS.					
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6. Reflow profile for SMT components



Reflow is referred to standard IPC/ JEDEC J-STD-020D

Profile Feature		Lead(Pb) Free solder
Preheat and soak	·temperature Min.(Tmin)	150°C
	·temperature Max.(Tmax)	200°C
	·time(Tmin to Tmax)(ts)	60-120 Seconds
Average ramp up rate Tmax to Tp		3°C/Second Max.
Liquidous temperature (Tl)		217 °C
Time (Tl) maintained above Tl		60-150 seconds
Peak package body temperature (Tp)		Table2
Time (tp)* within 5 °C of the specified classification temperature (Tc)		30* seconds
Average Ramp-down rate (Tp to Tl)		6 °C/second max
Time 25 °C to peak temperature		8 minutes max.

Table2. Pb-Free Process - Classification Temperatures (Tc)

Package Thickness	Volume mm ³ <350	Volume mm ³ 350~2000	Volume mm ³ >2000
<1.6 mm	260°C	260°C	260°C
1.6mm- 2.5mm	260°C	250°C	245°C
>2.5 mm	250°C	245°C	245°C

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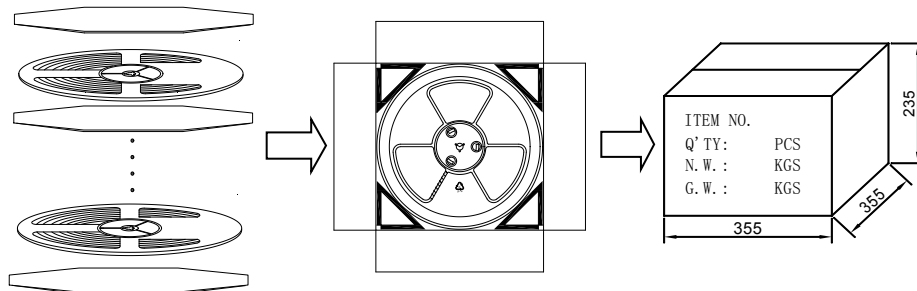
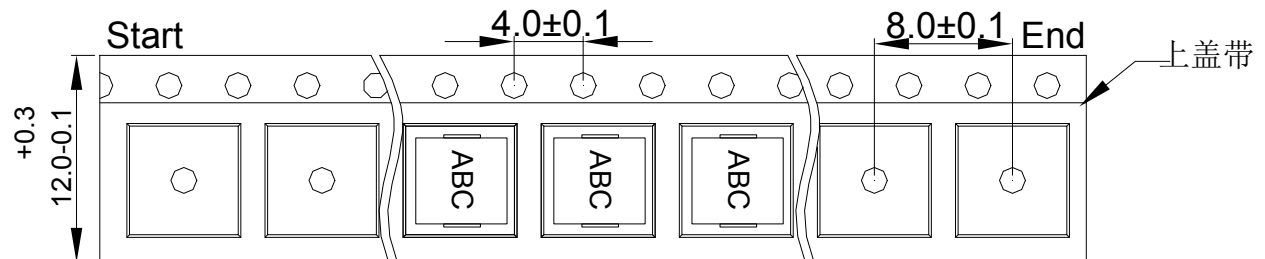
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7. PACKING

REFER TO STANDARD PACKING DRAWING. 3000PCS/R



REEL	3000PCS
BOX	30000PCS

8. NOTE

SOLDERING TIN PERIOD OF VALIDITY: SIX MONTHS
 STORAGE TEMPERATURE: 25°C±5°C
 COMPARATIVELY HUMIDITY: 35%--70%

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