

产 品 承 认 书  
SPECIFICATION FOR APPROVAL

客户名称  
*CUSTOMER NAME.*

产品类型                      贴片电感  
*PRODUCT TYPE*

客户料号                      MTH201208HR47M  
*CUSTOMER P/N*

料号                              MTH201208HR47M  
*OURS P/N*

文件编号  
*FILE NO.*

批准 <i>APPROVED</i>	确认 <i>CHECKED</i>	作成 <i>DESIGN</i>
chen	lin	ming

<i>客户承认/CUSTOMER ACCEPTED</i>		
承认 <i>APPROVED</i>	确认 <i>CHECKED</i>	承办 <i>DESIGN</i>
<i>批注/REMARK</i>		

苏州欣腾辉电子有限公司  
SUZHU XINTENGHUI ELECTRONIC CO., LTD.

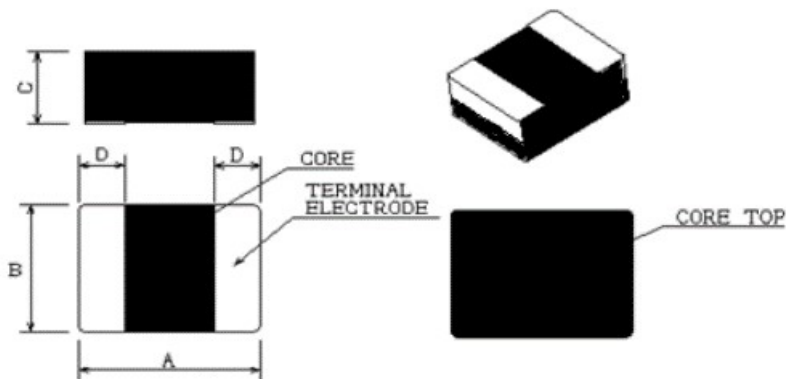
# 承认书/SPECIFICATION FOR APPROVAL

客户名称 CUSTOMER	0	客户品名 CUSTOMER P/N	MTH201208HR47M	版别 REV.	A
产品类型 PRODUCT TYPE	贴片电感	品名 OURS P/N	MTH201208HR47M	文件编号 FILE NO.	
<i>修改记录/MODIFY RECORDS</i>					
版别 REV.	变更编号 ECN NO.	修改内容 MODIFY CONTENT	拟制 DRAWING	审核 CHECKED	批准 APPROVED
A		新发行	ming 2018/3/23	lin	chen

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一.外观图/DIMENSION (单位/UNIT: mm)



A	2.0±0.2
B	1.2±0.2
C	0.8MAX
D	0.5±0.3

二. 电路图/CIRCUIT DIAGRAM



三. 电气特性/ELECTRICAL CHARACTERISTIC

Part No.	Inductance (uH)	Tolerance (±%)	Test Freq.	Irms(A) Max.(Typ)	Isat(A) Max.(Typ)	RDC(mΩ) Max.(Typ)
<b>MTH201208HR47M</b>	<b>0.47</b>	<b>20</b>	<b>2MHz,0.2V</b>	<b>3.7(3.9)</b>	<b>4.3(4.8)</b>	<b>29(25)</b>

**Notes:**

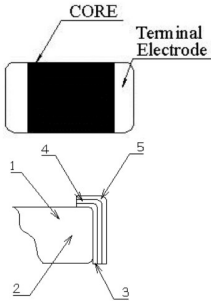
- 1.All test data is referenced to 25°C ambient.
- 2.Operating temperature range -40°C to +125°C (Including self - temperature rise)
- 3.Irms(A):DC current(A) that will cause an approximate ΔT of 40°C (reference ambient temperature is 25°C)
- 4.Isat(A):DC current(A) that will cause L0 to drop approximately 30%.
- 5.Absolute maximum voltage 20VDC
6. Measure Equipment :  
 L : Wayne kerr 3260B/G LCR Meter (or equivalent), 1MHz 0.25V  
 RDC : CHEN HWA502BC/HP4338B (or equivalent)  
 Isat : Wayne kerr 3265B Bias Current Source (or equivalent)  
 Irms : Wayne kerr 3265B Bias Current Source (or equivalent)
- 7.Test Condition:  
 Temperature:26±3°C  
 Humidity:<70% RH  
 Frequency:1MHz 0.25V

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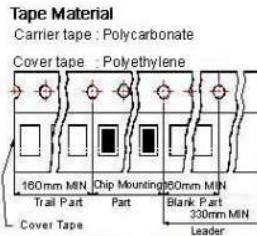
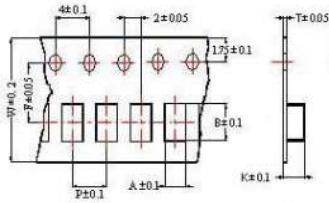
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## 四. 材料清单/MATERIAL LIST

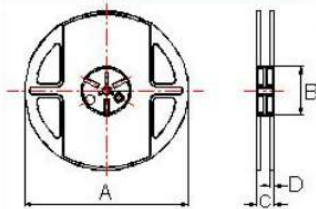


ITEM	PART	DESCRIPTION
1	Core	Metal Powder
2	Wire	Copper wire
3	Terminal	Cu
4		Ni
5		Sn

## 五. 编带规格/TAPING SPECIFICATIONS



TYPE	A	B	T	W	P	F	K
201208	1.45	2.25	0.22	8	4	3.5	1.04



Dimensions in mm

TYPE	A	B	C	D
201208	178	60	12	1.5

TYPE	PCS/REEL
201208	3000

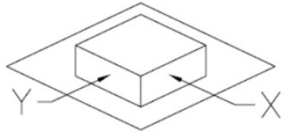
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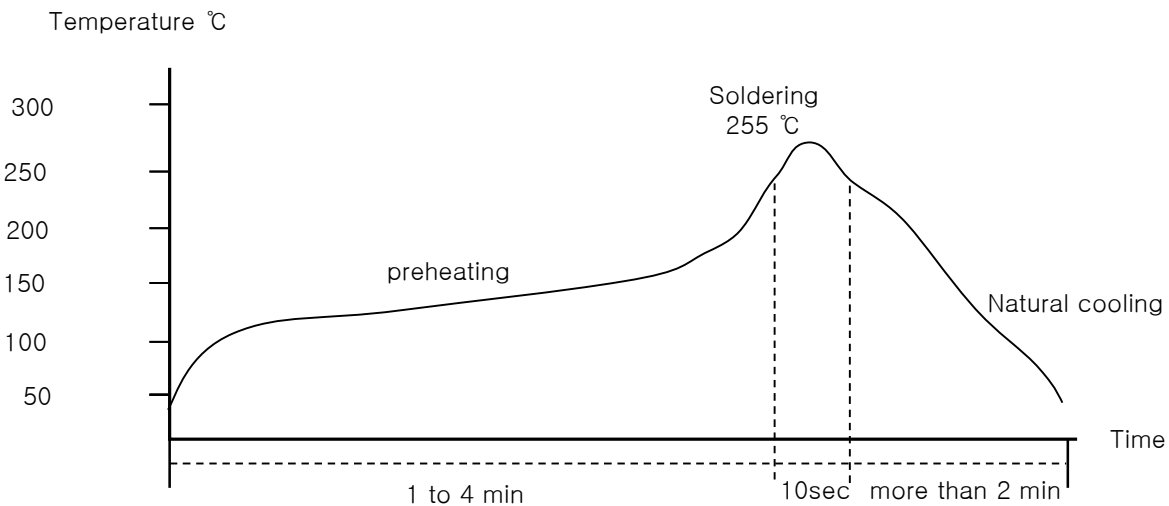
## 七. 可靠性测试/RELIABILITY TESTING

Operating Temperature	- 40 to +125 °C ( Contain Heating coil )
Appearance Inspection	No external defects by visual inspection
Terminal Strength	After soldering , between copper plaet and terminals of coils , push in two directions of X , Y with standing 10N(1.02kg) for10+/-2 sec. Terminal should not peel off. ( Refer to figure at right )
Heat endurance of reflow soldering	Refer to figure
Insulating resistance	Over 100 MΩ at 100V D.C . between wire and core
Dielectric Strength	Apply at 0.5KV 3mA for 1 minute between wire and core
Temperature characteristics	Inductance coefficient ( 0~2,000 ) × 10 / °C ( - 40~ + 125 °C )
Humidity characteristics	Inductance deviation within ± 10% , after 96 hours in 90~95% relative humidity at 40 ± 2 °C and 1 hours drying under normal condition



A test is made under the above mentioned condition , and it is kept for 2 hours in the normal

### IR Reflow profile



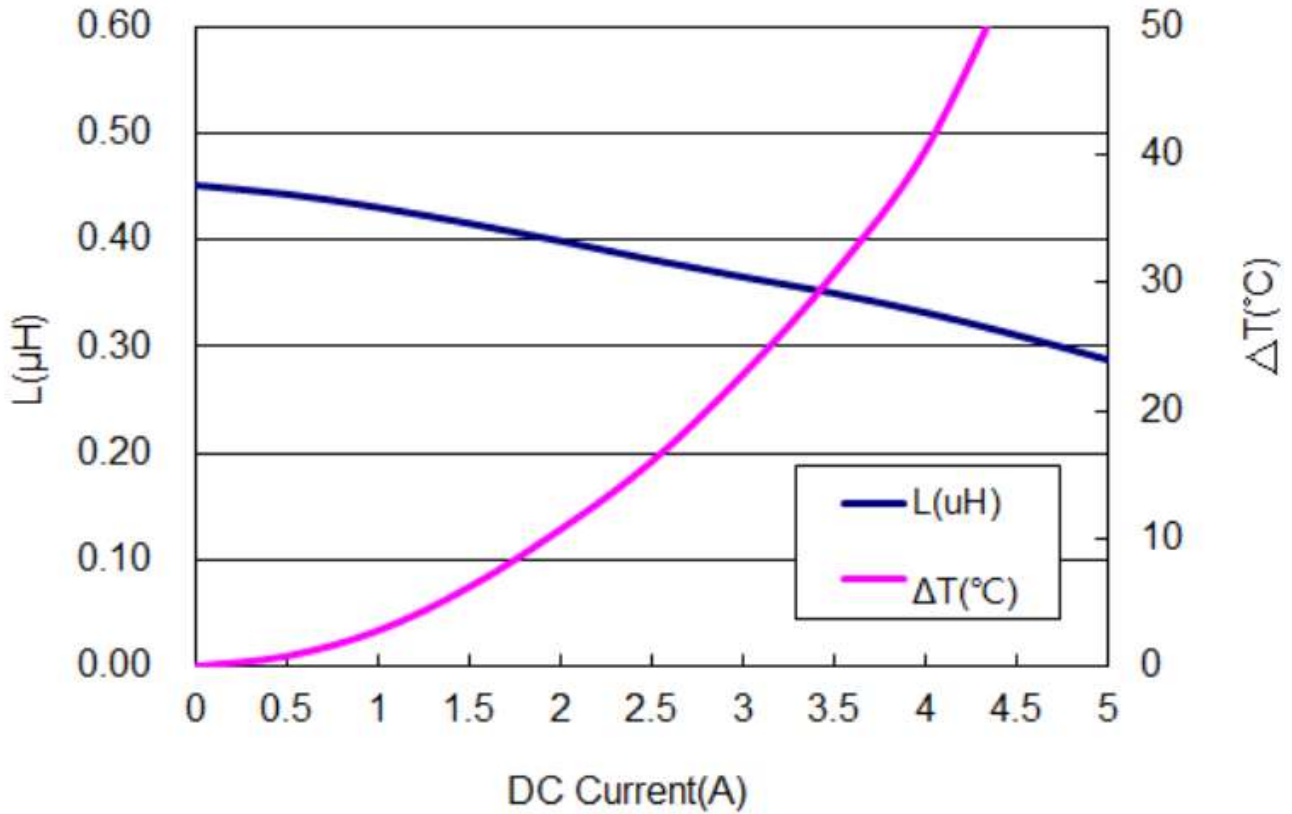
Temperature and humidity . After that , no mechanical and electrical defect should be found .

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## 八. 曲线图/CURVE



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