

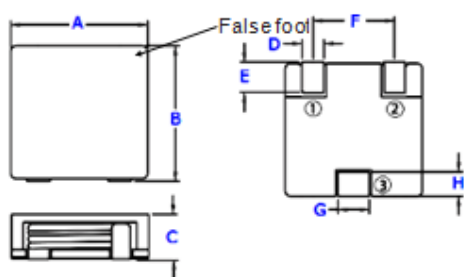
## 1、产品概要 / Outline

- ◆ 扁平线绕组、耐大电流
- ◆ 温升电流及饱和电流受环境条件影响极小
- ◆ 无热老化
- ◆ 工作温度：-50°C+150°C
- ◆ 工作温度：-50°C+150°C
- ◆ 适用于汽车、军工、人工智能、航空航天等高可靠性的要求行业
- ◆ 广泛应用高功率开关稳压器、1:1 反激式转换器、Buck、Boost、Sepic 和 Cuk 转换器。



## 2、外观尺寸/ Appearance size 单位:mm

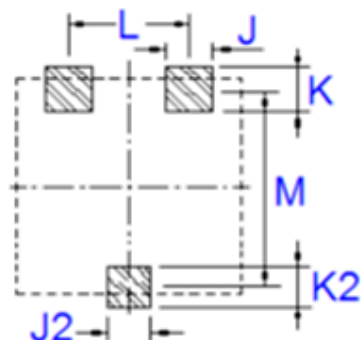
### Boundary dimension:



### Schematic:



### Recommended Land Pattern:



Series	Size	J	K	J2	K2	L	M
ST2110M		4.0 Ref.	5.0 Ref.	4.0 Ref.	4.0 Ref.	14.5 Ref.	17.5 Ref.
ST2110M-4R7M		4.0 Ref.	5.0 Ref.	4.0 Ref.	4.0 Ref.	14.5 Ref.	17.5 Ref.
ST2112M		4.0 Ref.	5.0 Ref.	4.0 Ref.	4.0 Ref.	14.5 Ref.	17.5 Ref.

(unit: mm)

A	B	C	D	E	F	G	H
21.7Ma x	21.5Ma x	10.6Ma x	3.0±0.3	2.3Min	14.5±0.5	2.5Ref.	2.4Ref.

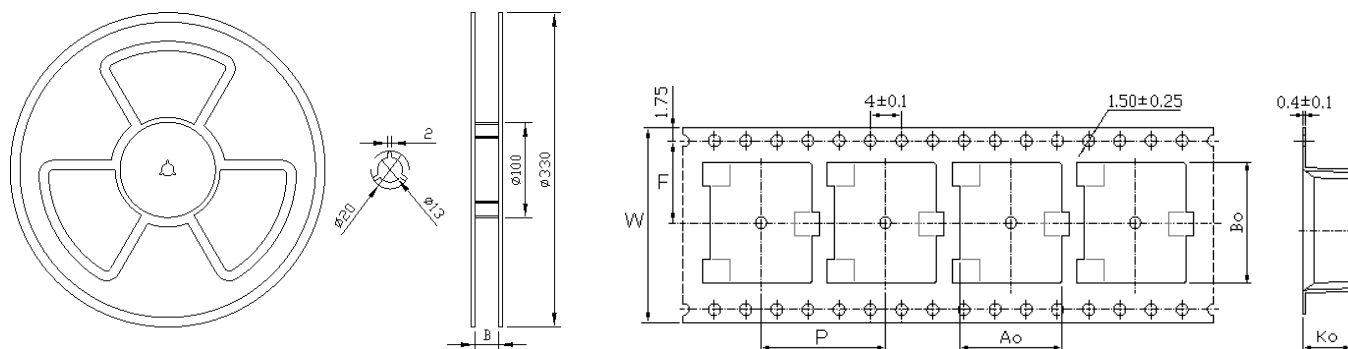
## 3、电气特性/Electrical characteristics

型号	L(0A)	DCR(mΩ)Max	Irms (Typ)	Isat (Typ)
ST2110M-1R0M	1	1.4	40	70
ST2110M-1R5M	1.5	1.4	40	52
ST2110M-2R2M	2.2	1.8	34	46
ST2110M-3R3M	3.3	2.2	28	37
ST2110M-4R7M	4.7	2.8	26	30

### 注释

- ◆ K 表示电感值的公差为±10%，M 表示电感值的公差为±20%
- ◆ K said inductance tolerance is ±10%, M said inductance tolerance is ± 20%
- ◆ 所有数据基于环境温度 25°C条件下测试
- ◆ All data is based on testing at an ambient temperature of 25 °C
- ◆ 测试条件：100KHz/1.0V
- ◆ 本页面未能录入全部或最新的数据，请您在订购前向本公司咨询精准参数及样品。
- ◆ We were unable to input all or the latest data on this page. Please consult our company for accurate parameters and samples before placing an order.

## 4 包装规格/ Packaging specifications 单位/mm



型号	A	B	Ao	Bo	Ko	W	P
ST2110M	120(Pcs/Reel)	44.5+0.5/-0	20.8 ± 0.2	21.8 ± 0.2	12.7 ± 0.2	44	32
ST2112M	120(Pcs/Reel)	44.5+0.5/-0	20.8 ± 0.2	21.8 ± 0.2	12.7 ± 0.2	44	32

## 5、焊接/ welding

### • 焊接原材料 Soldering Materials

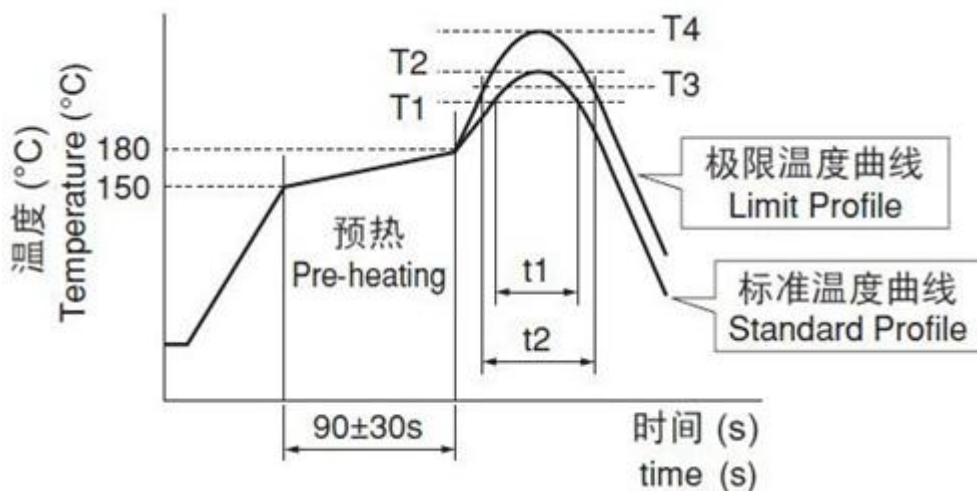
(a) 焊料 :推荐使用 96.5Sn/3.0Ag/0.5Cu 焊料 ,或者采用 Sn 含量不超过 97%的锡合金焊料。 Solder: It is recommended to use 96.5Sn/3.0Ag/0.5Cu solder, or use Tin alloy solder with a Tin content not exceeding 97%.

(b) 助焊剂 : 推荐使用松香类助焊剂, 请勿使用强酸性助焊剂 (含氯量超过 0.2wt %), 并且请勿使用水溶性助焊剂。

Flux: It is recommended to use rosin-based flux. Acidic flux (with chlorine content exceeding 0.2wt %) and water-soluble flux are forbidden.

### • 焊接温度及要求 Soldering Temperature & Requirements

回流焊温度曲线 Reflow Soldering Temperature Profile



## 回流焊要求 Reflow Soldering Requirements

标准温度曲线Standard Profile				极限温度曲线Limit Profile			
加热Heating		峰值温度 Peak Temp. ( T2 )	回流焊 次Cycle Of Reflow	加热Heating		峰值温度 Peak Temp. ( T4 )	回流焊次数 Cycle Of Reflow
加热 Temp. ( T1 )	时间 Ti me ( t1 )			温度 Temp. ( T3 )	时间 Time ( t2 )		
220°C	30~60s	245±3°C	≤2	230°C	≤60s	260°C/10s	1

## 6、其他

- ◆ 本产品为无铅, 请采用无铅环境作业
- ◆ Other: Our company's products are lead-free, please operate in a lead-free environment
- ◆ 由于页面限制, 更多资料请联系我司
- ◆ Due to page limitations, please contact our company for more information
- ◆ 在过载电流等不正常条件下, 本电感产品无自我保护功能。
- ◆ Under abnormal conditions such as overload current, this inductor product has no self-protection function.