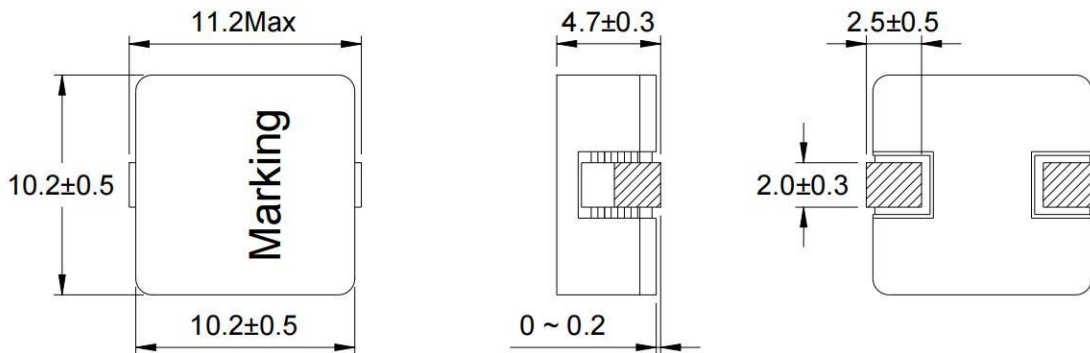


### Outline: 产品概要

- Magnetic shielded structure: excellent resistance to electro magnetic interference(EMI)  
磁屏蔽结构：抗电磁干扰(EMI)性能强
- Flat wire winding, achieve a low D.C. Resistance.  
扁平线绕组，实现极低的直流电阻。
- Low loss, high efficiency, wide application frequency and application scope.  
低损耗，高效率，应用频率宽，适用范围广。
- Lightweight design, save space, suitable for high density SMT.  
轻薄型设计，节省空间，适合高密度贴装。
- Operating temperature : -55°C ~ +150°C (Including coil's temperature rise)  
工作温度：-55°C ~ +150°C (包含线圈发热)

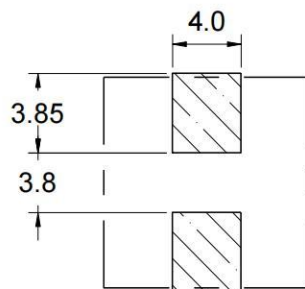
### 1 Appearance and Dimensions (mm) 外形尺寸 (mm)



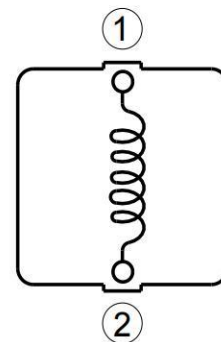
### 2 Marking 印字标识



### 3 Reference Land Pattern (mm) 参考基板尺寸 (mm)



### 4 Schematic 原理图





## 5 Electrical Characteristics

### 电气特性

Part No. 型号	Inductance (μH) 电感值 ※1 ±20%	D.C.R. (mΩ) 直流电阻		Saturation current (A) 饱和电流 ※2 Typical	Temperature rise current (A) 温升电流 ※3 Typical
		Typical	Max		
YZBX1050-R18M	0.18	0.45	0.55	80.0	32.0
YZBX1050-R39M	0.39	0.67	0.77	55.0	24.0
YZBX1050-R82M	0.82	1.26	1.50	36.0	23.0
YZBX1050-1R2M	1.20	2.05	2.35	32.0	19.0
YZBX1050-1R8M	1.80	2.98	3.45	27.0	17.0
YZBX1050-2R5M	2.50	4.06	4.70	23.0	15.0
YZBX1050-3R3M	3.30	5.37	6.50	19.0	13.0
YZBX1050-4R2M	4.20	7.11	8.50	17.0	11.0
YZBX1050-5R6M	5.60	8.62	9.90	14.0	10.3
YZBX1050-6R8M	6.80	10.5	12.1	12.5	9.00
YZBX1050-8R2M	8.20	13.1	15.1	11.5	8.10
YZBX1050-100M	10.0	16.4	18.9	10.2	7.10
YZBX1050-150M	15.0	25.9	29.8	8.75	5.50
YZBX1050-180M	18.0	34.7	39.9	8.30	5.00

■ All data is tested based on 25°C ambient temperature.

所有数据基于环境温度 25°C 条件下测试。

※1 Inductance measure condition at 100kHz, 0.5V.

电感测试条件为 100kHz, 0.5V。

※2 Saturation current : the actual value of DC current when the inductance decrease 30% of its initial value.

饱和电流 : 电感值下降其初始值的 30% 时所加载的实际直流电流值。

※3 Temperature rise current : the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

温升电流 : 使产品温度上升到 ΔT50°C 时所加载的实际直流电流值 (Ta=25°C)。

※ Special remind : Circuit design, component placement, PCB size and thickness, cooling system and etc.

all will affect the product temperature. Please verify the product temperature in the final application.

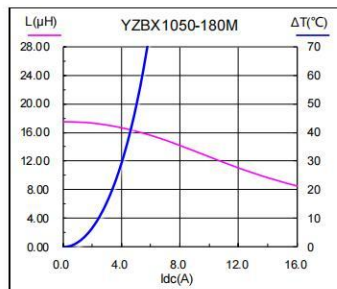
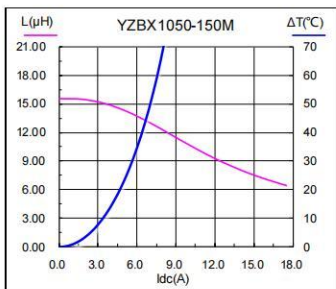
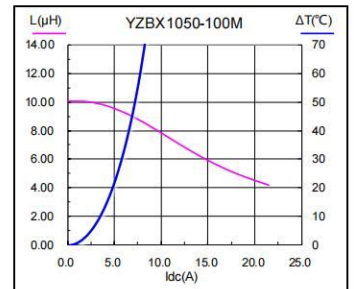
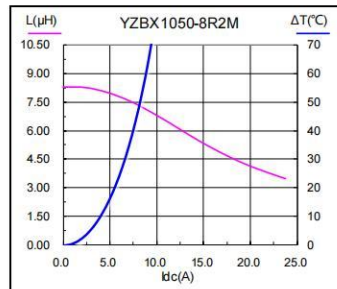
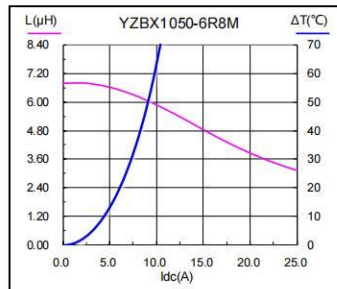
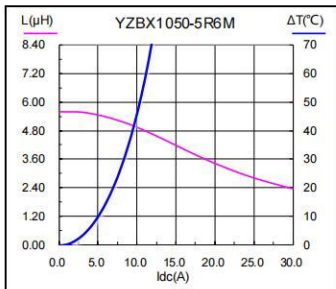
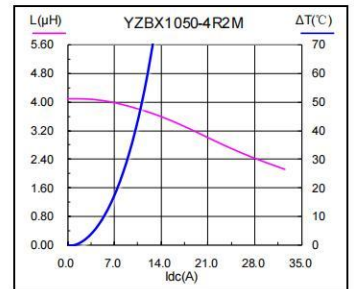
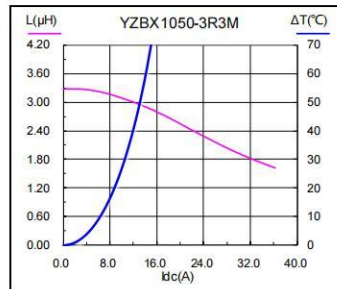
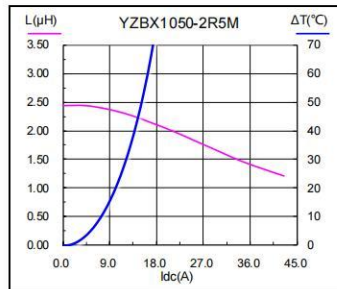
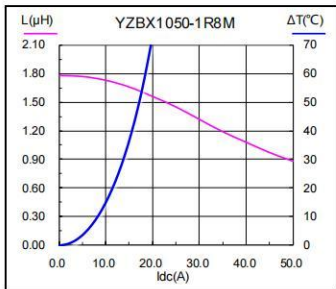
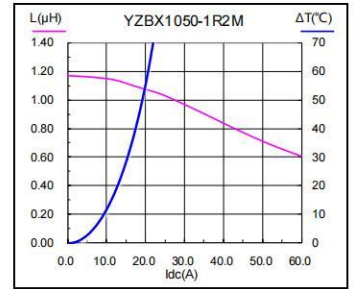
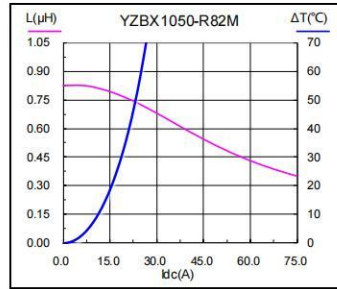
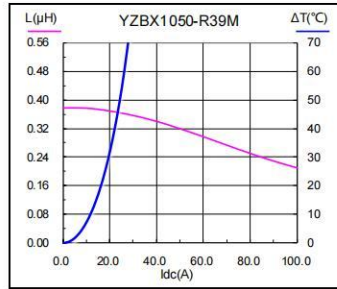
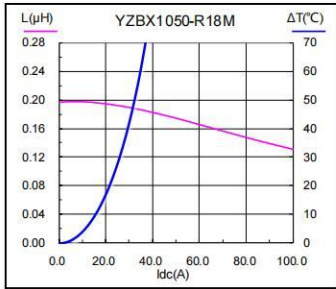
特别提醒 : 线路设计, 组件布局, 印刷线路板 (PCB) 尺寸及厚度, 散热系统等均会影响产品温度。

请务必在最终应用时, 验证产品发热状况。



## 6 Saturation Current vs Temperature Rise Current Curve

饱和电流 vs 温升电流曲线



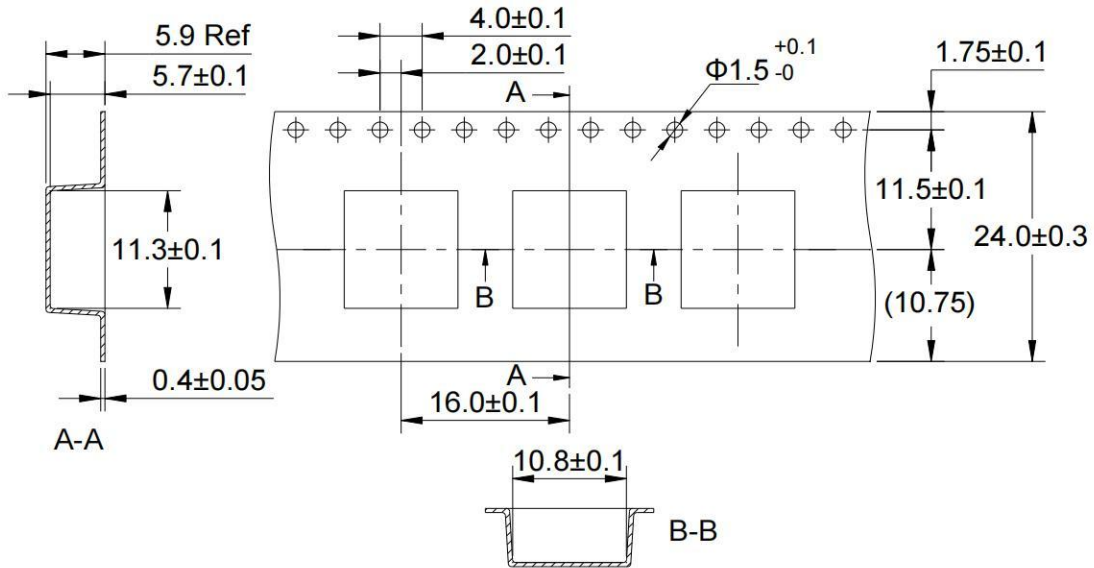


## 7 Packing Specification

### 包装规格

#### 7.1 Carrier Tape Dimensions (mm)

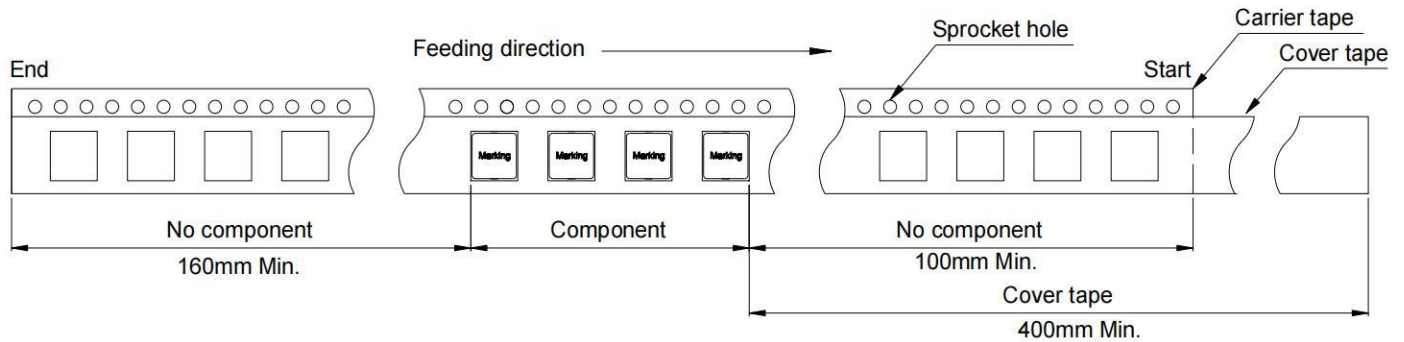
##### 载带尺寸



※ Packing is referred to the international standard IEC 60286-3.  
包装参照国际标准 IEC 60286-3。

#### 7.2 Tape Direction

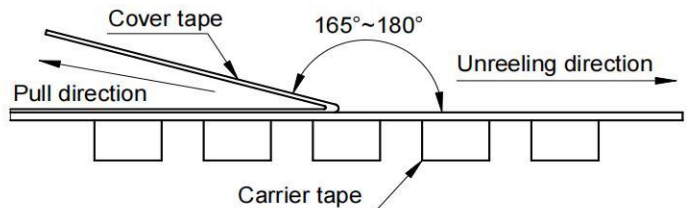
##### 捆包方向



#### 7.3 Cover Tape Peel Off Condition

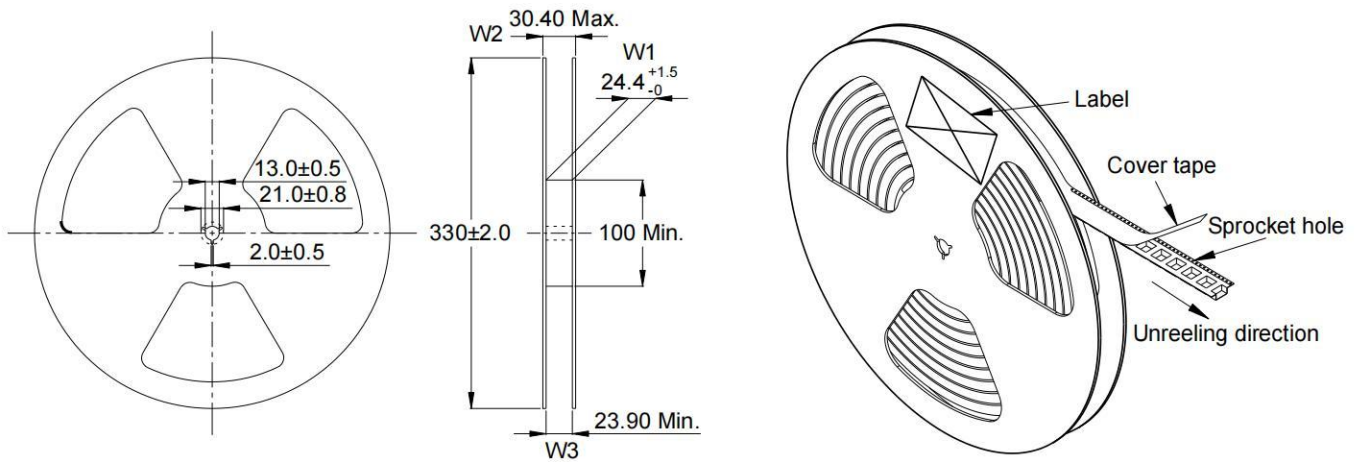
##### 盖带剥离条件

- Cover tape peel force shall be 0.1 to 1.3N.  
盖带剥离力度为 0.1 ~ 1.3N。
- Reference peel speed 300±10mm/min.  
参考剥离速度 300±10mm/分钟。





7.4 Reel Dimensions (mm)  
卷盘尺寸



7.5 Carton Dimensions and Packing Quantity  
包装箱尺寸和包装数量

■ Inner Carton : 340×340×95mm  
内包装盒

■ Out Carton : 360×360×370mm  
外包装箱

Product Series 产品系列	Quantity / Reel 数量 / 卷	Inner Carton Quantity 内盒 包装数量	Out Carton Quantity 外箱 包装总数量
YZBX1050	700pcs	1400pcs = (2×700)	4200pcs = (3×1400)

7.6 Label Making  
标签标识

The following items will be marked on the reel of product label and shipping label.  
以下项目将明确标识于产品卷盘标签以及运输标签上。

Production Label 产品标签
■ Packing No. 包装流水号
■ Quantity 数量
■ Shipment Date 出货日期
■ Part No. 产品型号
■ Customer Part No. 客户型号
■ Customer Po No. 客户订单号

Shipping Label 运输标签
■ Packing No. 包装流水号
■ Quantity 数量
■ Shipment Date 出货日期
■ Part No. 产品型号
■ Customer Part No. 客户型号
■ Customer Po No. 客户订单号

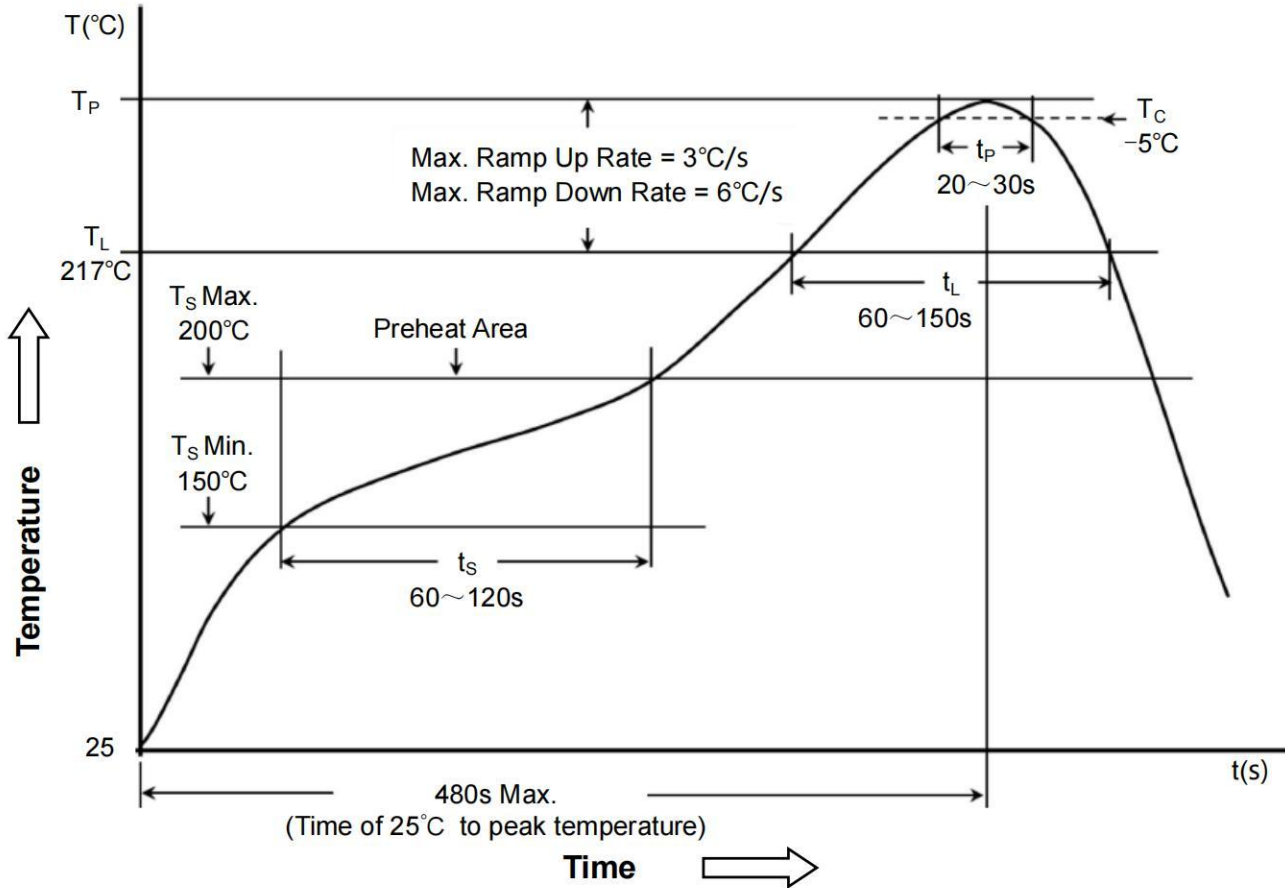


## 8 Soldering specification

### 焊接规格

#### 8.1 Reflow profile for SMT components

SMT 回流焊温度曲线



#### 8.2 Classification of peak package body temperature ( $T_P$ )

封装体峰值温度( $T_P$ )分类

	Package Thickness 封装厚度	Package Volume 封装体积		
		<350 mm <sup>3</sup>	350 ~ 2000 mm <sup>3</sup>	>2000 mm <sup>3</sup>
PB-Free Assembly 无铅装配	<1.6mm	260°C	260°C	260°C
	1.6 ~ 2.5mm	260°C	250°C	245°C
	≥2.5mm	250°C	245°C	245°C

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

回流焊参照标准 IPC/JEDEC J-STD-020D.