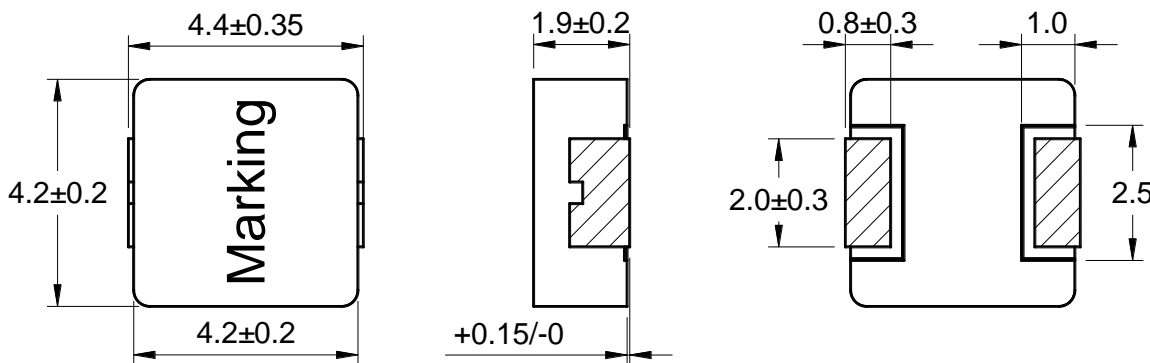


Outline: 产品概要

- Magnetic shielded structure: excellent resistance to electro magnetic interference(EMI).
磁屏蔽结构：抗电磁干扰(EMI)性能强。
- A composite structure, ultra low buzz noise.
一体成型结构，超低蜂鸣噪音。
- Low loss, high efficiency, wide application frequency.
低损耗，高效率，应用频率宽。
- 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。
- Die-casting by low loss alloy powder: low impedance, small parasitic capacitance.
低损耗合金粉末压铸：低阻抗，寄生电容小。
- Operating temperature : -40°C ~ +125°C (Including coil's temperature rise)
工作温度：-40°C ~ +125°C (包含线圈发热)

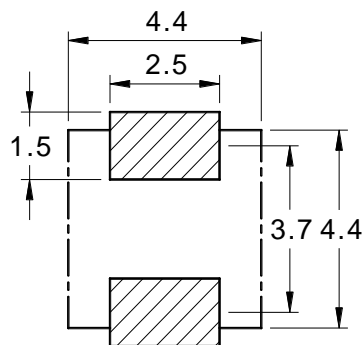
1 Appearance and dimensions (mm) 外形尺寸



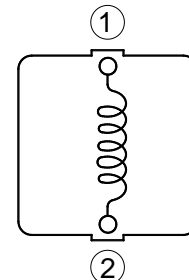
2 Marking 印字标识



3 Reference land pattern (mm) 参考基板尺寸



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		Temperature rise current (A) 温升电流 ※3
		Typical	Max	Typical	Max	Typical
CSHB0421-R33M	0.33	6.00	7.20	10.6	9.20	10.9
CSHB0421-R47M	0.47	6.30	7.60	10.2	9.00	10.6
CSHB0421-R56M	0.56	6.50	7.80	9.30	7.90	10.4
CSHB0421-R68M	0.68	8.00	9.60	9.10	7.70	9.50
CSHB0421-1R0M	1.00	9.10	10.5	7.60	6.70	8.90
CSHB0421-1R5M	1.50	13.4	15.4	6.20	5.30	7.20
CSHB0421-2R2M	2.20	20.9	23.0	4.30	3.60	5.80
CSHB0421-3R3M	3.30	33.4	36.8	4.00	3.40	4.60
CSHB0421-4R7M	4.70	48.6	53.8	3.70	3.10	3.85
CSHB0421-150M	15.0	225	268	2.20	1.90	1.75

■ 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。

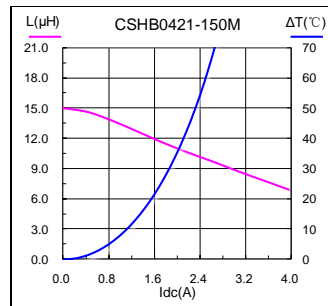
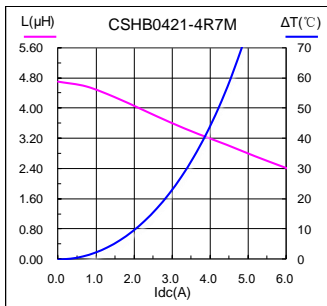
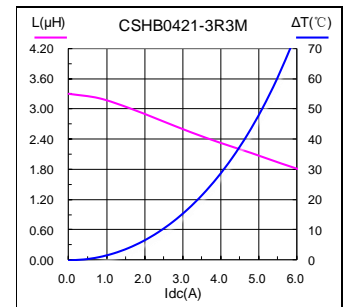
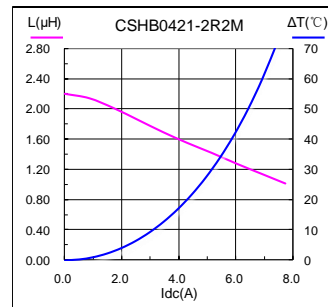
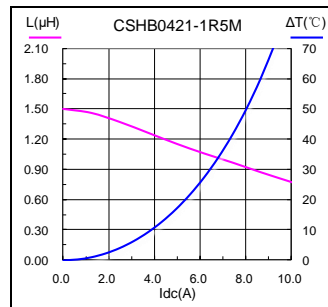
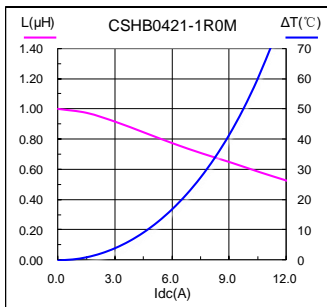
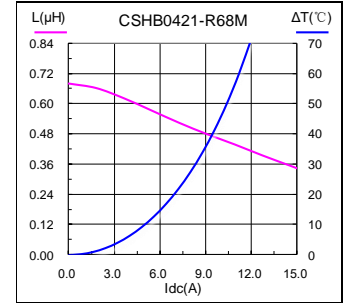
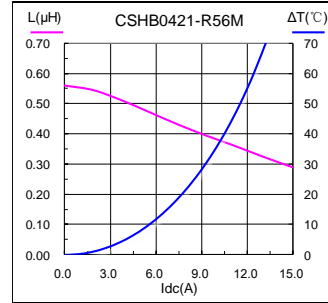
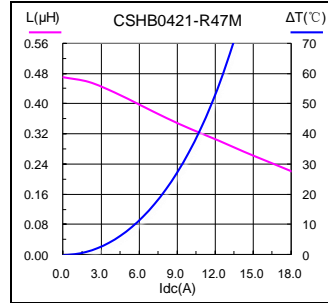
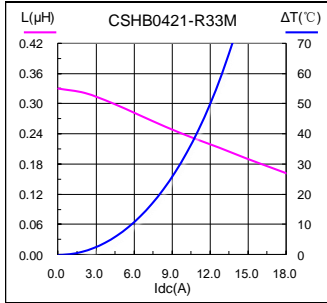
※1 Inductance measure condition at 100kHz, 1V.
电感测试条件为 100kHz, 1V。

※2 Saturation current : the 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%时所加载的直流电流值。

※3 Temperature rise current : the actual value of DC current when the temperature rise is ΔT40°C(Ta=25°C).
温升电流 : 使产品温度上升到 ΔT40°C时所加载的实际直流电流值(Ta=25°C)。

※ Special remind : Circuit design, component placement, PWB 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, 印刷电路板(PWB)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

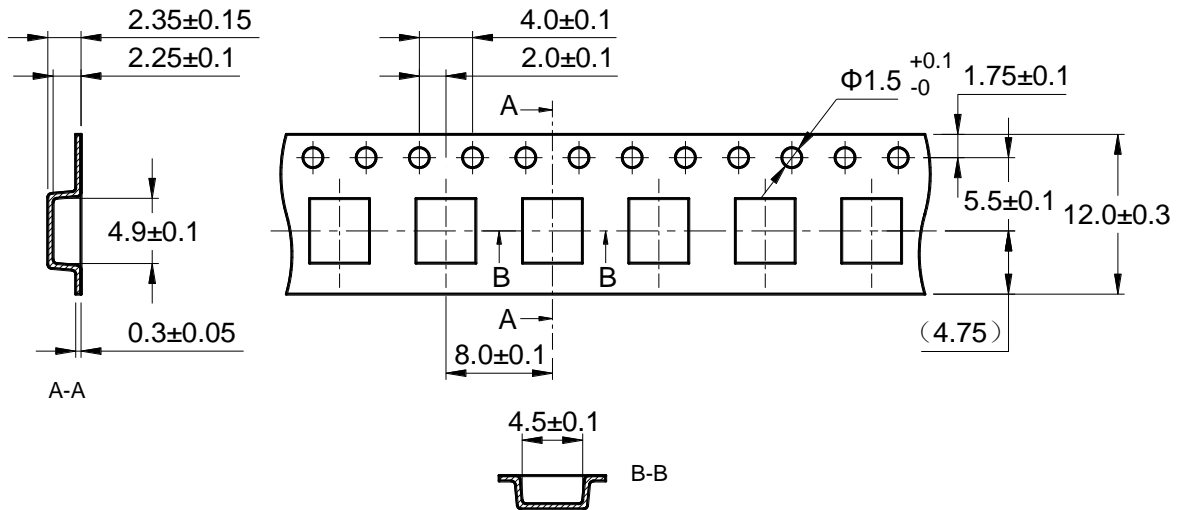


7 Packing specification

包装规格

7.1 Carrier tape dimensions (mm)

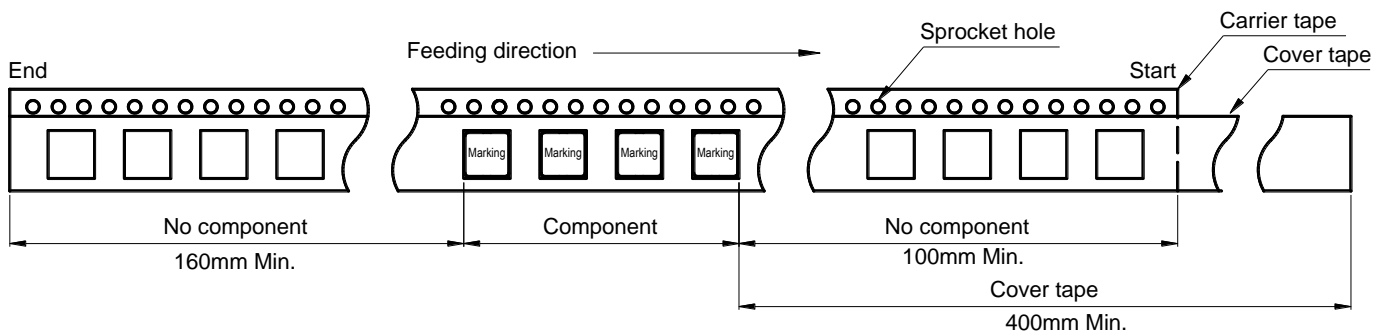
载带尺寸



※ 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

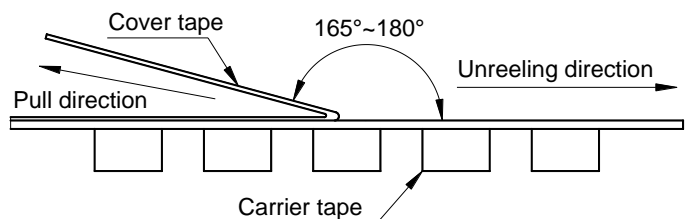
捆包方向



7.3 Cover tape peel off condition

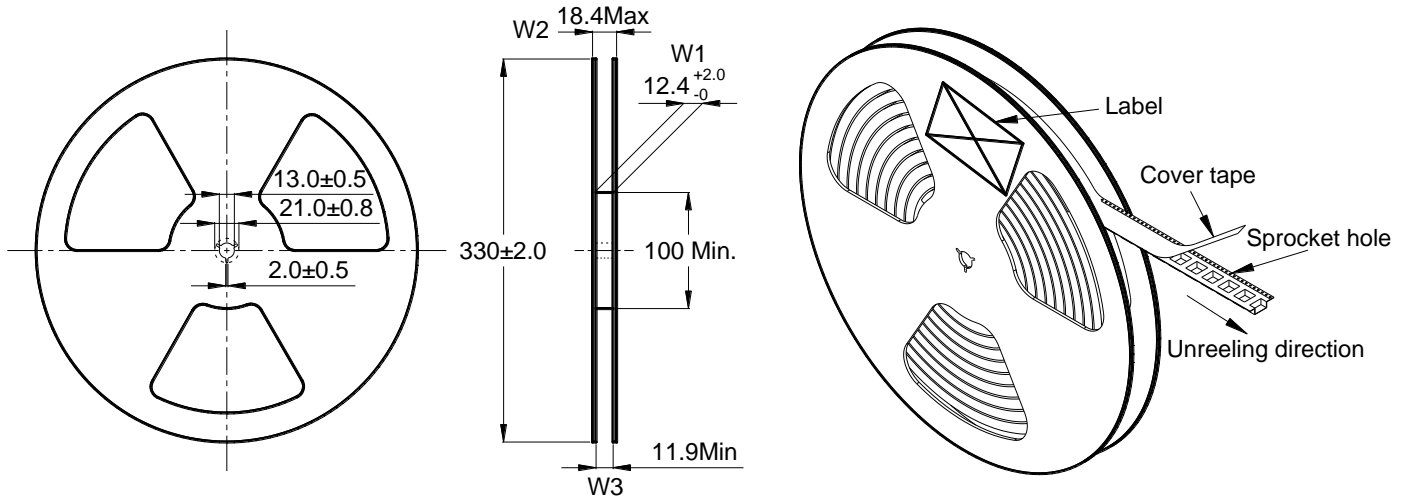
盖带剥离条件

- 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 : 355×355×385mm
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
CSHB0421	2000pcs	(2000×4) = 8000pcs	(8000×3) = 24000pcs

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
■ Part No. 产品型号
■ Electrical Information 产品电性信息
■ Quantity 数量
■ Packing No. 包装流水号

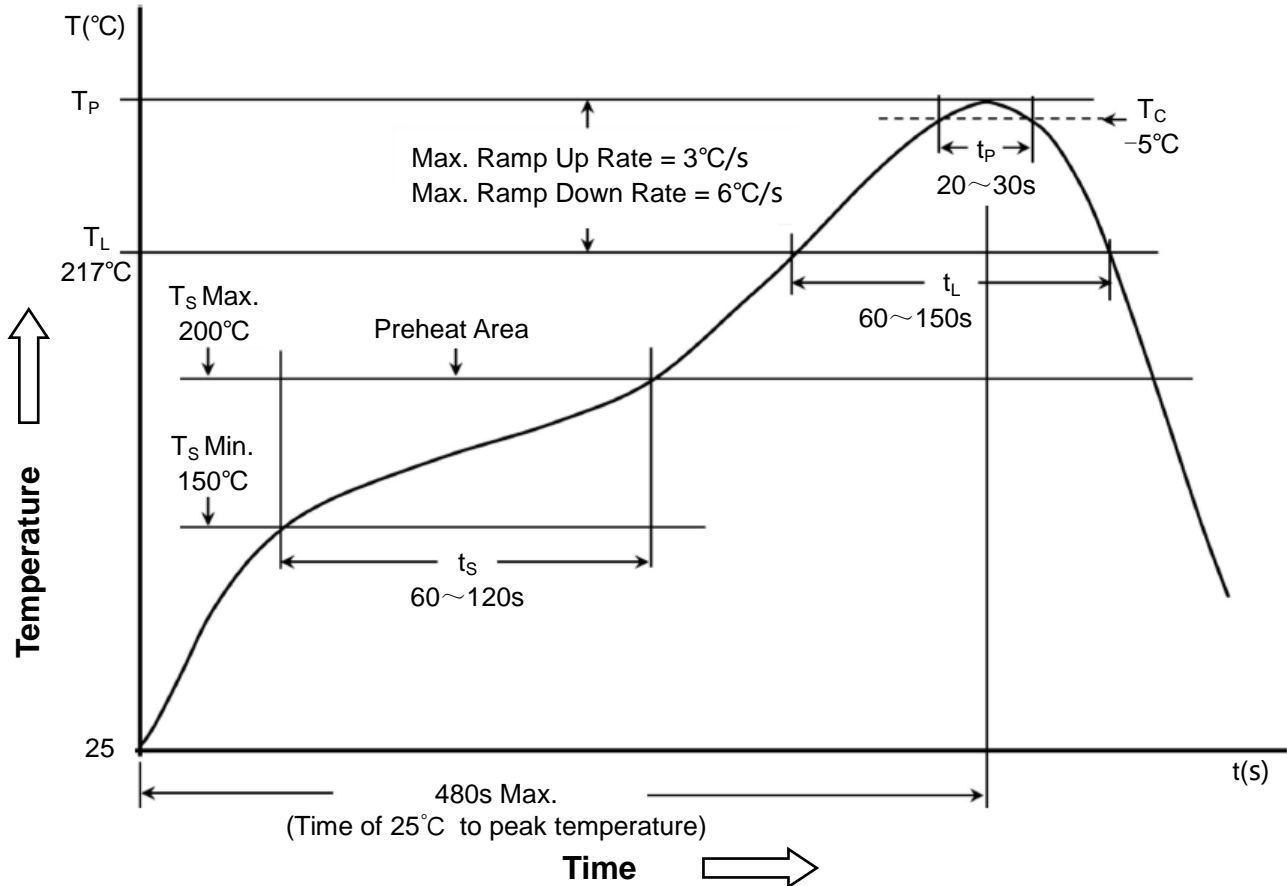
Shipping Label 运输标签
■ Customer Name 客户名称
■ Customer Part No. 客户型号
■ Supplier Part No. 供应商型号
■ Supplier Name 供应商名称
■ Country of origin 产品产地

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 (Tp)

封装体峰值温度(Tp)分类

	Package Thickness 封装厚度	Package Volume 封装体积		
		<350 mm ³	350 ~ 2000 mm ³	>2000 mm ³
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.