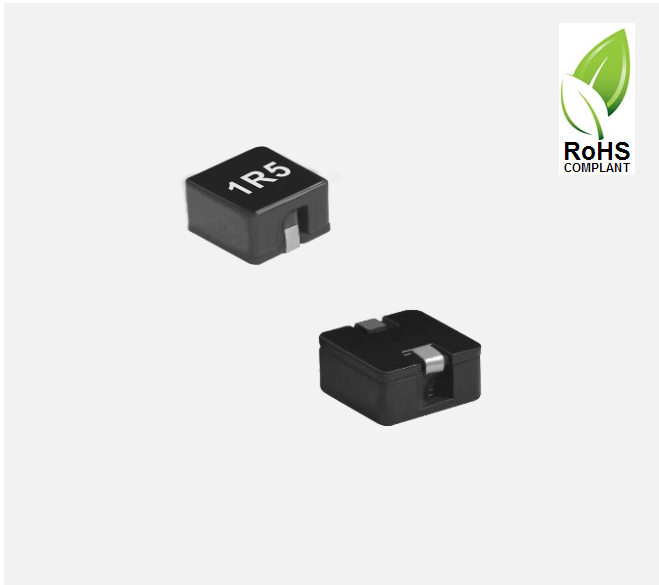


High Current Power Inductor

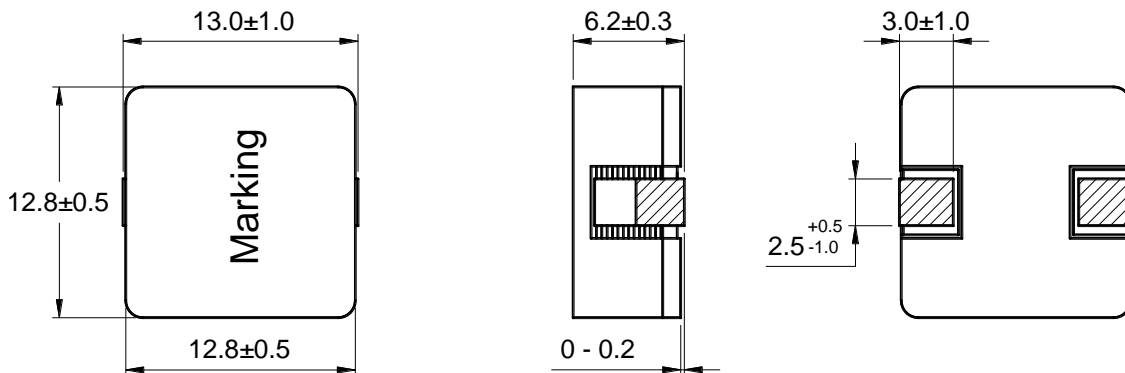
- FWP1265 Series



Outline: 产品概要

- Magnetic shielded structure: excellent resistance to electromagnetic 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 : -40°C ~ +155°C (Including coil's temperature rise)
工作温度：-40°C ~ +155°C (包含线圈发热)

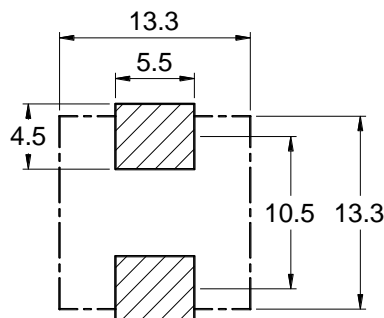
1 Appearance and dimensions (mm) 外形尺寸



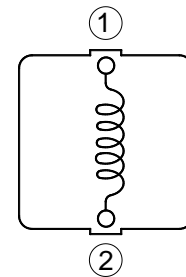
2 Marking 印字标识



3 Reference land pattern (mm) 参考基板尺寸



4 Schematic 原理图



High Current Power Inductor

- FWP1050 Series

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 ±10%	Saturation current (A) 饱和电流 ※2	Temperature rise current (A) 温升电流 ※3
			Typical	Typical
FWP1265-R20M	0.20	0.35	65.0	32.0
FWP1265-R47M	0.47	0.67	50.0	30.0
FWP1265-R82M	0.82	0.90	35.0	27.0
FWP1265-1R3M	1.30	1.80	25.0	25.0
FWP1265-2R0M	2.00	2.60	22.0	23.0
FWP1265-2R8M	2.80	3.30	17.5	20.0
FWP1265-3R7M	3.70	4.90	16.0	17.0
FWP1265-4R7M	4.70	7.00	15.0	13.0
FWP1265-6R0M	6.00	8.40	14.0	12.0
FWP1265-7R3M	7.30	5.90	12.0	13.0
FWP1265-9R2M	9.20	7.80	10.5	12.0
FWP1265-110M	11.0	9.10	9.50	11.0
FWP1265-130M	13.0	11.2	9.00	10.0
FWP1265-150M	15.0	14.8	8.00	9.00
FWP1265-180M	18.0	22.0	7.50	7.50
FWP1265-220M	22.0	24.7	6.50	6.00
FWP1265-330M	33.0	30.5	5.50	5.50

■ 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,0.1V.

电感测试条件为 100kHz,0.1V。

※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 $\Delta T50^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$).

温升电流: 使产品温度上升到 $\Delta T50^{\circ}\text{C}$ 时所加载的实际直流电流值 ($T_a=25^{\circ}\text{C}$)。

※ 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。

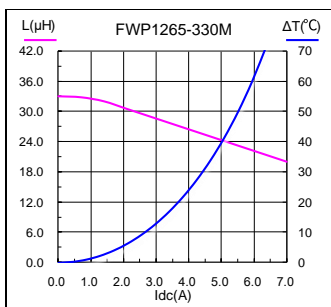
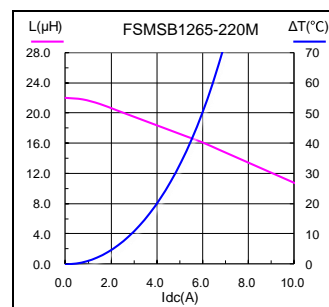
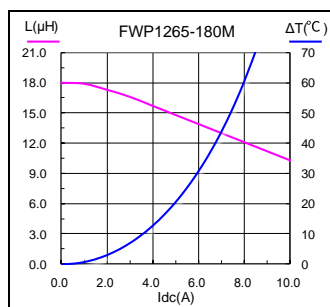
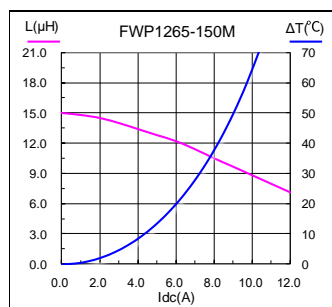
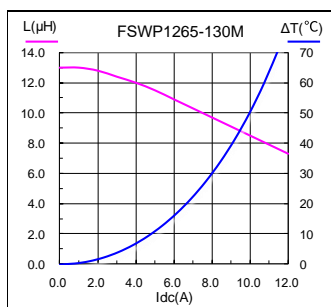
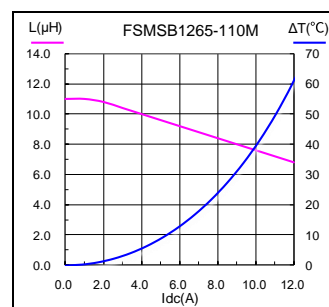
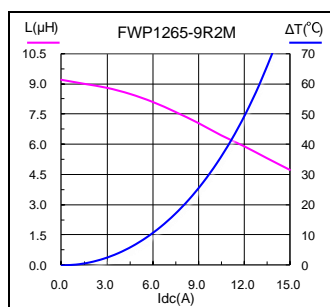
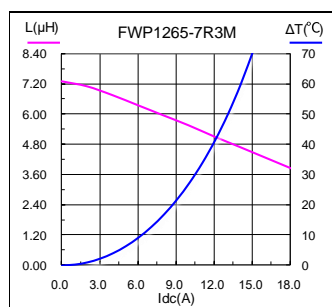
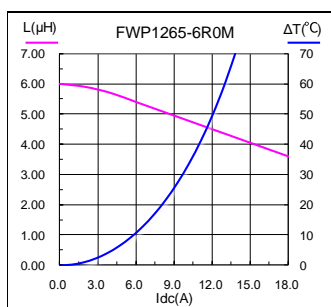
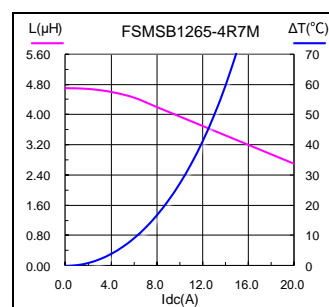
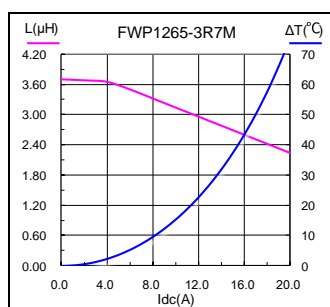
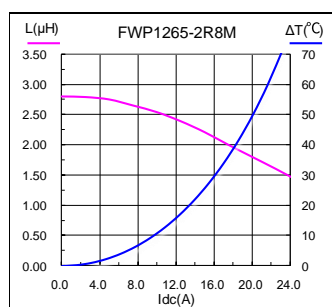
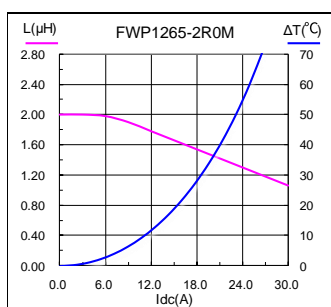
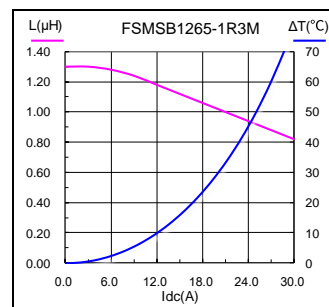
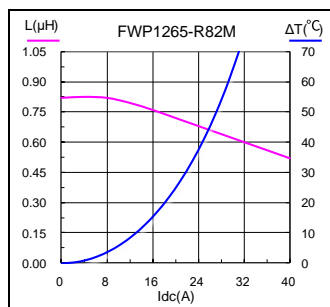
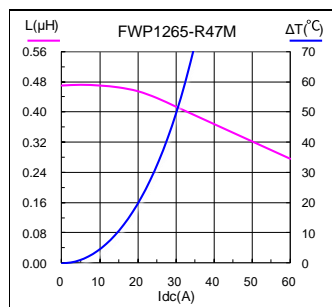
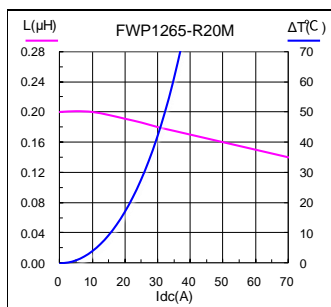
High Current Power Inductor



- FWP1265 Series

6 Saturation current VS temperature rise current curve

饱和电流 VS 温升电流曲线

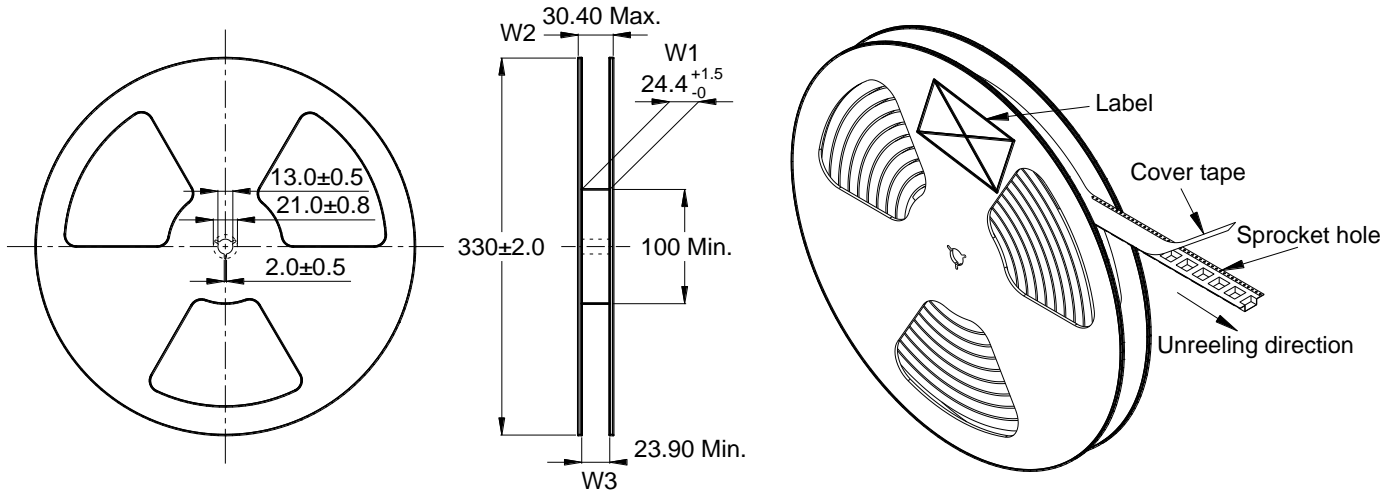


High Current Power Inductor

- FWP1265 Series

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
内包装箱

■ 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
FWP1265	400pcs	(400×2) = 800pcs	(800×3) = 2400pcs

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

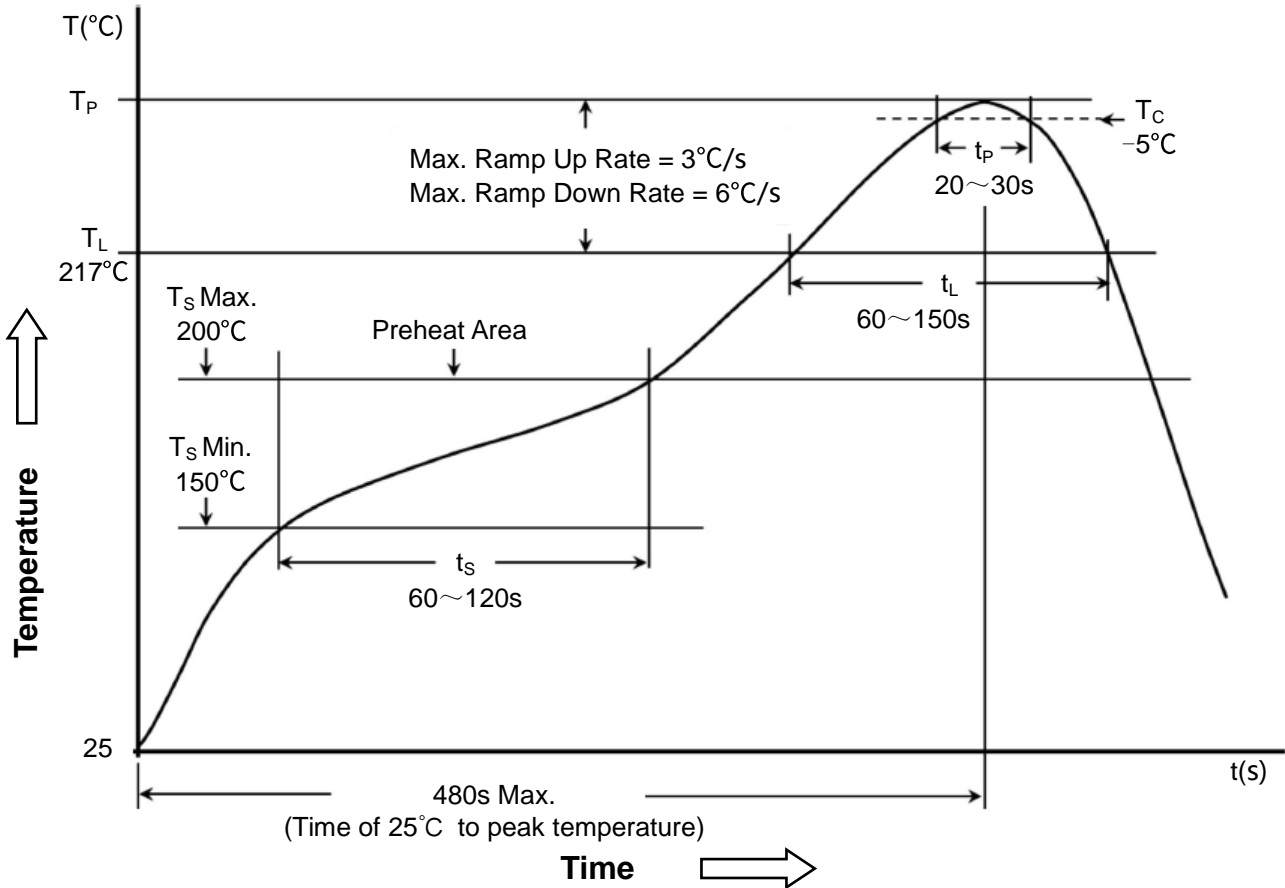
- FWP1265 Series

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 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。