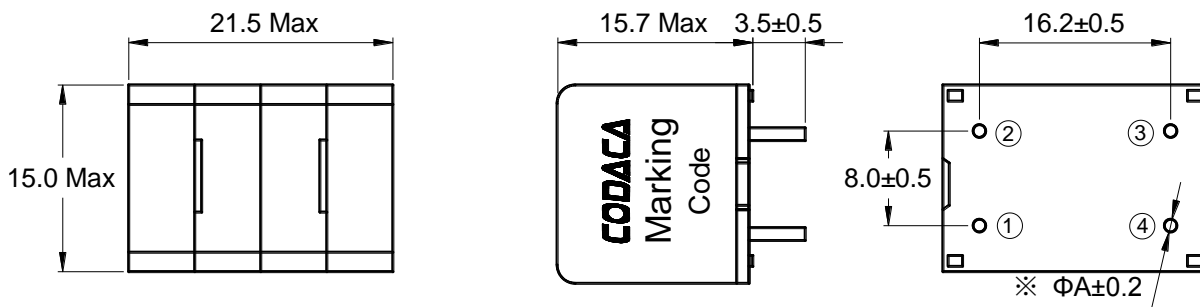




Outline: 产品概要

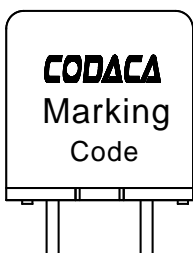
- Magnetic shielded structure: excellent resistance to electromagnetic interference(EMI)
磁屏蔽结构：抗电磁干扰(EMI)性能强
- Assemblage design, sturdy structure.
组立式设计，结构坚固。
- High inductance, high current, low magnetic loss, low ESR, small parasitic capacitance.
高电感值，大电流，低磁损，低阻抗，寄生电容小。
- High temperature wire, closed magnetic circuit, ultra low buzz noise.
耐高温铜线，磁路闭合，超低蜂鸣噪音。
- Operating temperature : $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
(Including coil's temperature rise)
工作温度： $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (包含线圈发热)

1 Appearance and dimensions (mm) 外形尺寸

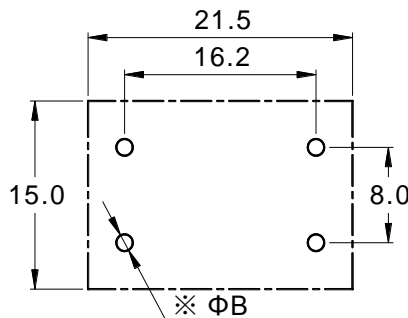


| | | | |
|-------------|------|------|------|
| Part No. | 100 | 150 | 220 |
| Dimension A | 1.00 | 0.90 | 0.80 |
| Dimension B | 1.40 | 1.30 | 1.20 |

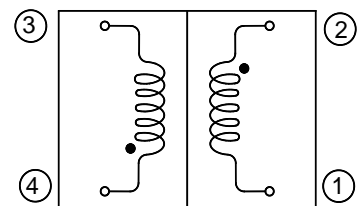
2 Marking 印字标识



3 Reference hole pattern (mm) 参考焊孔尺寸



4 Schematic 原理图



5 Electrical characteristics

电气特性

| Part No. 型号 | Inductance (μH) (1-2)/(3-4) 电感值 ※1 $\pm 20\%$ | D.C.R. ($\text{m}\Omega$) (1-2)/(3-4) 直流电阻 | | Saturation current (A) (1-2)/(3-4) 饱和电流 ※2 Typical | Temperature rise current (A) (1-2)/(3-4) 温升电流 ※3 Typical |
|----------------|---|--|------|---|---|
| | | Typical | Max | | |
| CPD1521B-100M | 10.0 | 6.30 | 7.50 | 12.0 | 12.0 |
| CPD1521B-150M | 15.0 | 9.70 | 11.7 | 10.0 | 8.50 |
| CPD1521B-220M | 22.0 | 13.5 | 16.0 | 8.00 | 7.00 |

■ 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, 0.1V.

电感测试条件为 100kHz, 0.1V。

※2 Saturation current: the actual value of DC current when the inductance decrease 10% of its initial value.

饱和电流: 电感值下降其初始值的 10% 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 $\Delta T 40^\circ\text{C}$ ($T_a=25^\circ\text{C}$).

温升电流: 使产品温度上升到 $\Delta T 40^\circ\text{C}$ 时所加载的实际直流电流值 ($T_a=25^\circ\text{C}$)。

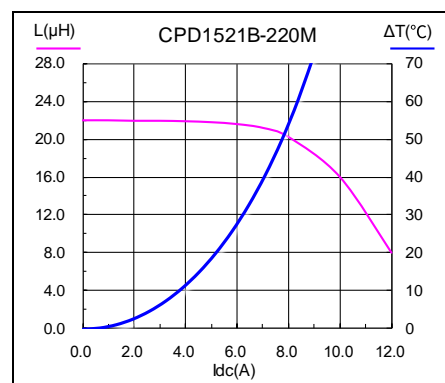
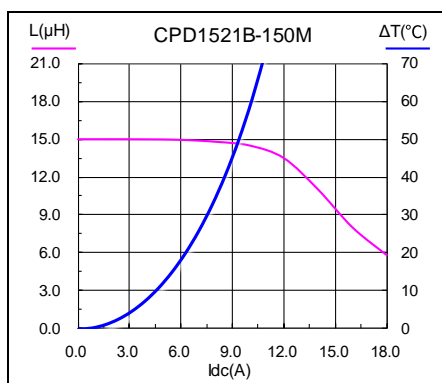
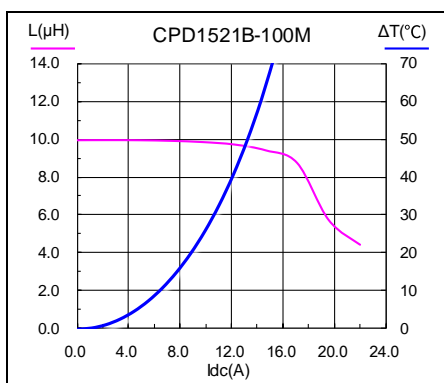
※ Special remind: Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

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。

6 Saturation current VS temperature rise current curve

饱和电流 VS 温升电流曲线

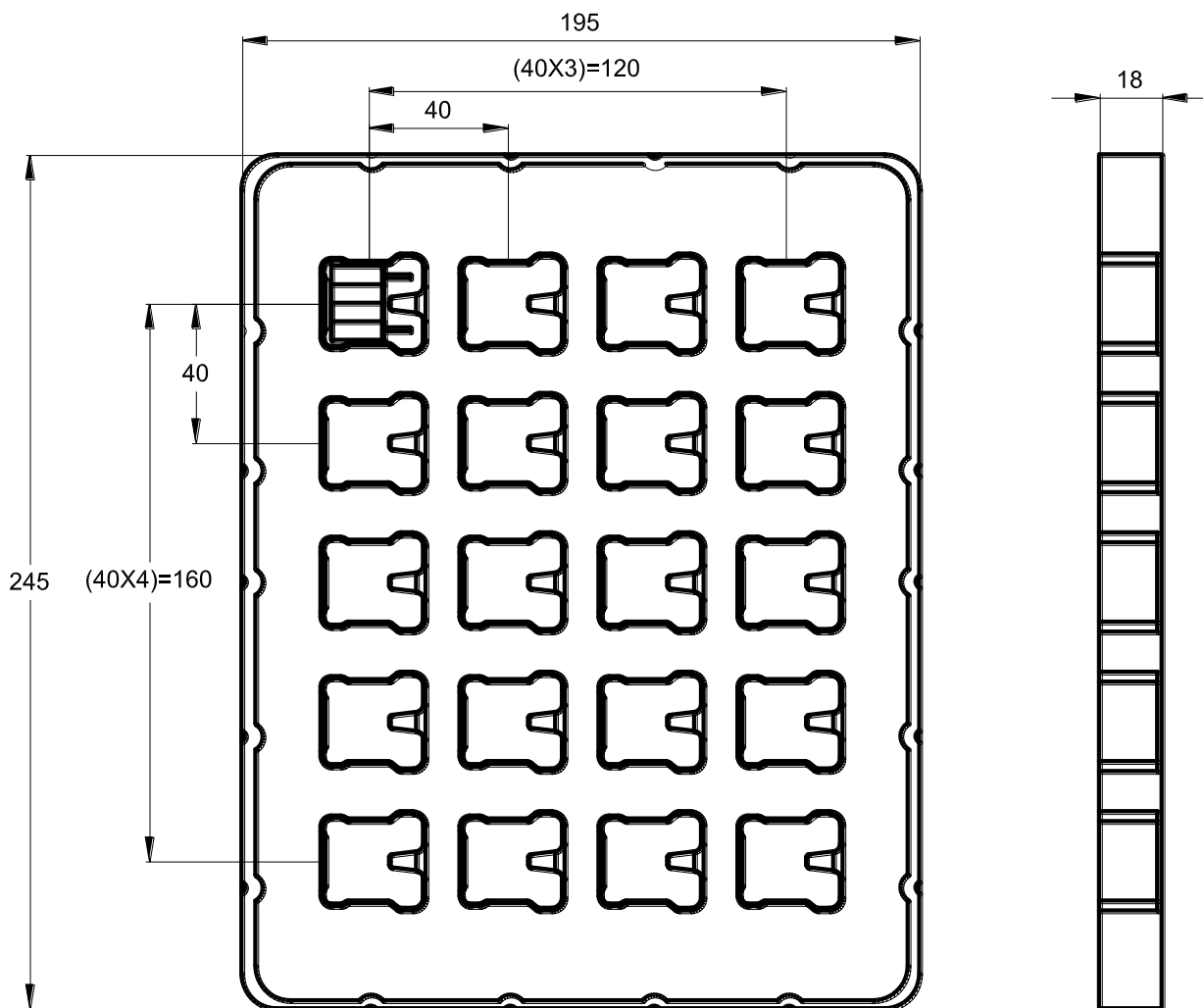


7 Packing specification

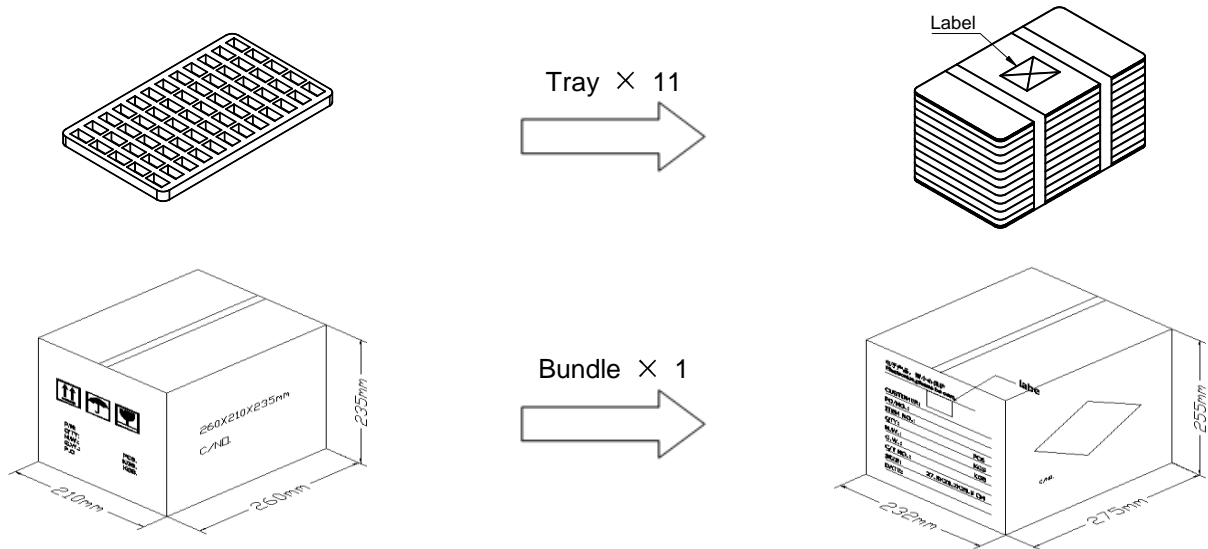
包装规格

7.1 Plastic tray dimensions (mm)

吸塑盘尺寸



7.2 Packing 包装



7.3 Carton dimensions and packing quantity 包装箱尺寸和包装数量

■ Inner Carton : 260×210×235mm
内包装箱

■ Out Carton : 275×232×255mm
外包装箱

| Product Series 产品系列 | Quantity / Tray 数量 / 盘 | Quantity / Bundle 数量 / 捆 | Out Carton Quantity 外箱 包装总数量 |
|------------------------|---------------------------|-----------------------------|---------------------------------|
| CPD1521B | 20pcs | (20×11) = 220pcs | (220×1) = 220pcs |

7.4 Label making 标签标识

The following items will be marked on the tray of product label and shipping label.
以下项目将明确标识于产品吸塑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 |