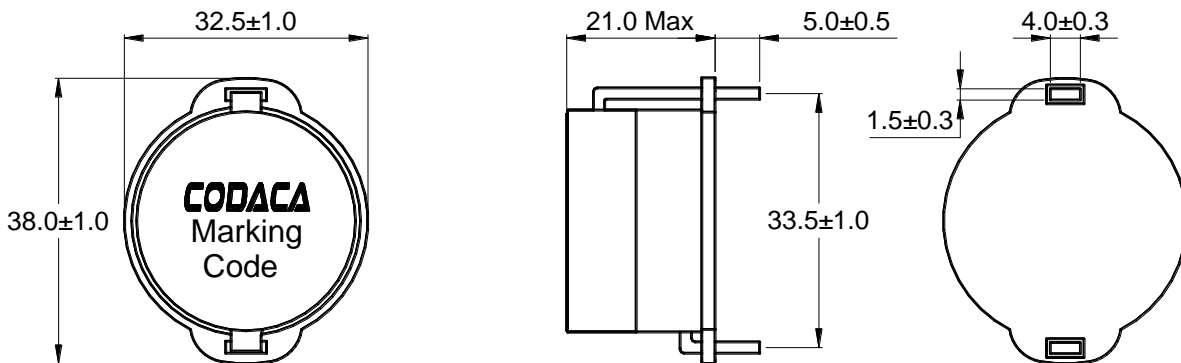




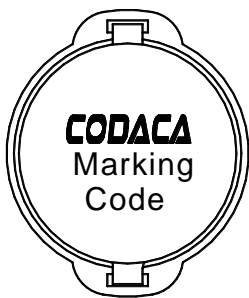
### Outline: 产品概要

- 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°C ~ +125°C (Including coil's temperature rise)  
工作温度：-40°C ~ +125°C (包含线圈发热)

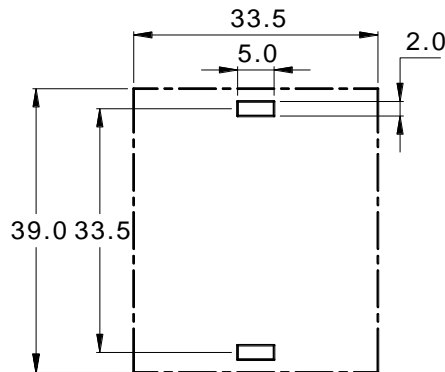
### 1 Appearance and dimensions (mm) 外形尺寸



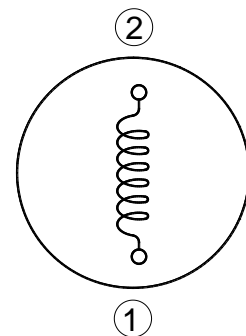
### 2 Marking 印字标识



### 3 Reference 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) 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		
CPT3020-100M	10.0	1.45	1.70	30.0	25.0

■ 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 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 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, 印刷线路板(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

