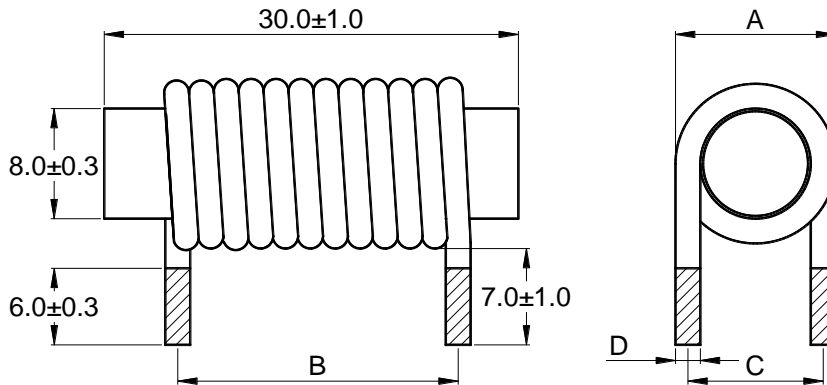


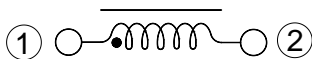
Outline: 产品概要

- Use ferrite core, high frequency.
铁氧体磁芯，工作频率高。
- Low DC resistance, high saturation current.
低直流电阻，高饱和电流。
- Lead free product, RoHS compliant.
无铅产品，符合 RoHS 指令。
- Widely used in switching power supply, power amplifier, output antenna, filter, display, UPS, and etc.
广泛应用于开关电源，功率放大器，输出天线，滤波器，显示器，不间断电源等。
- 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



2 Schematic 原理图



Part No. 品名	A	B	C	D
	Max	± 1.0	± 0.5	± 0.15
RAR0830-4R7M	12.20	22.50	9.85	1.80
RAR0830-5R6M	11.80	22.00	9.65	1.60
RAR0830-6R8M	11.60	21.00	9.45	1.40
RAR0830-8R2M	11.20	21.00	9.35	1.30
RAR0830-100M	10.90	22.00	9.25	1.20
RAR0830-150M	10.60	23.00	9.05	1.00
RAR0830-220M	10.20	22.50	8.85	0.80

3 Electrical characteristics

电气特性

Part No. 品名	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		
RAR0830-4R7M	4.70	2.72	3.54	21.0	27.7
RAR0830-5R6M	5.60	3.59	4.66	19.0	24.1
RAR0830-6R8M	6.80	5.00	6.47	16.0	20.4
RAR0830-8R2M	8.20	6.20	8.10	14.0	18.3
RAR0830-100M	10.0	8.15	10.6	12.0	16.0
RAR0830-150M	15.0	14.2	18.4	10.0	12.1
RAR0830-220M	22.0	25.2	32.8	9.00	9.70

■ 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 1kHz, 0.25V.
电感测试条件为 1kHz, 0.25V。

※2 Saturation current: the actual value of DC current when the inductance decrease 20% of its initial value.
饱和电流: 电感值下降其初始值的 20%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。

**4 Saturation current VS temperature rise current curve
饱和电流 VS 温升电流曲线**

