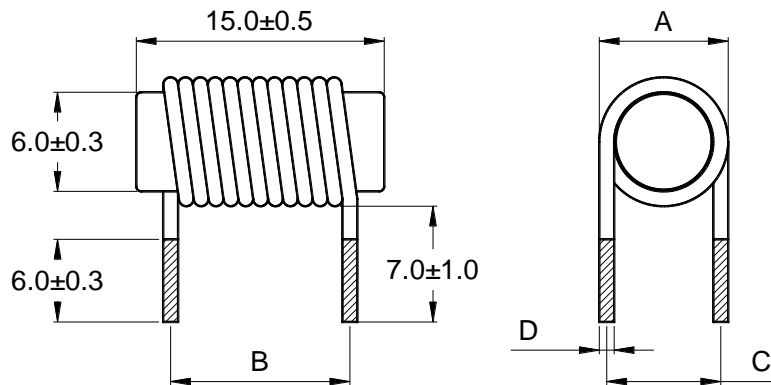




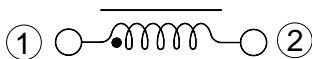
Outline: 产品概要

- 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
RAR0615-1R0M	9.60	10.50	7.55	1.50
RAR0615-1R8M	8.80	10.00	7.15	1.10
RAR0615-2R2M	8.80	11.50	7.15	1.10
RAR0615-3R3M	8.50	11.50	6.95	0.90
RAR0615-4R7M	8.00	11.00	6.75	0.70
RAR0615-5R0M	8.00	11.50	6.75	0.70
RAR0615-6R8M	7.80	11.50	6.65	0.60
RAR0615-8R2M	7.80	13.50	6.65	0.60
RAR0615-100M	7.60	12.00	6.55	0.50
RAR0615-150M	7.40	12.50	6.45	0.40
RAR0615-220M	7.20	12.50	6.35	0.30

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		
RAR0615-1R0M	1.00	1.71	2.23	24.0	31.5
RAR0615-1R8M	1.80	3.85	5.01	23.0	21.0
RAR0615-2R2M	2.20	5.30	6.90	21.0	17.9
RAR0615-3R3M	3.30	8.40	10.9	19.0	14.2
RAR0615-4R7M	4.70	16.4	21.3	15.5	10.2
RAR0615-5R0M	5.00	17.2	22.4	15.0	9.90
RAR0615-6R8M	6.80	24.8	32.2	14.0	8.30
RAR0615-8R2M	8.20	30.6	39.8	12.5	7.45
RAR0615-100M	10.0	46.0	59.8	11.0	6.00
RAR0615-150M	15.0	84.0	109	9.00	4.50
RAR0615-220M	22.0	134	174	7.50	3.55

■ 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。

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

