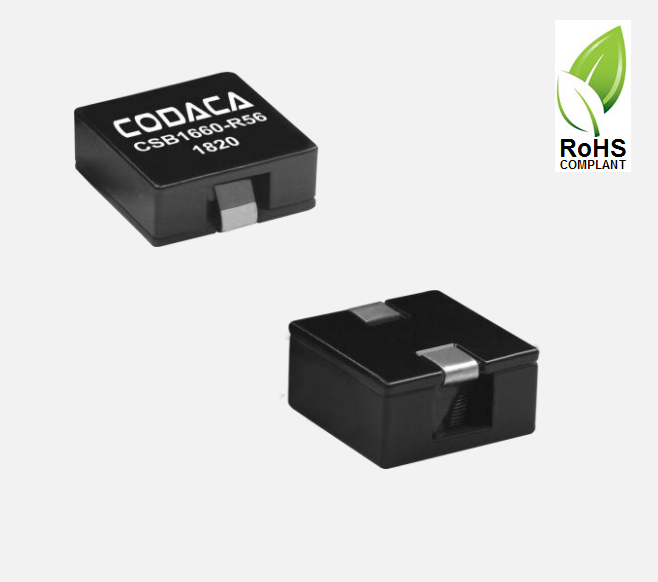
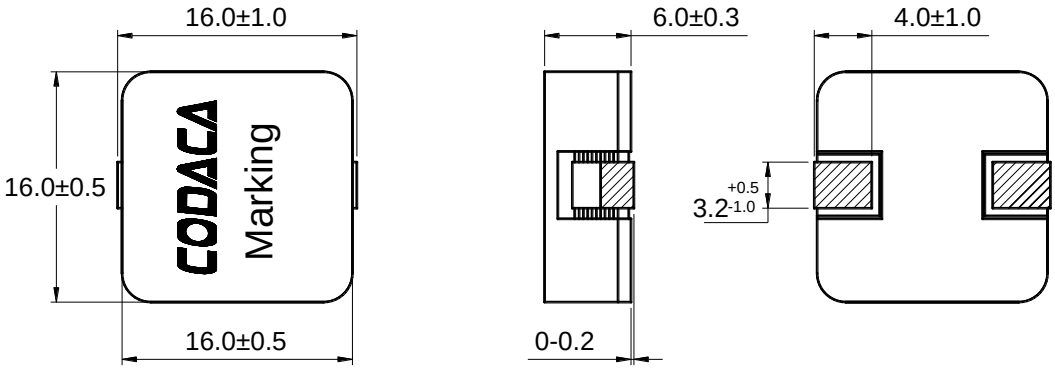
High Current Power Inductor - CSB1660 Series



Outline:
产品概要

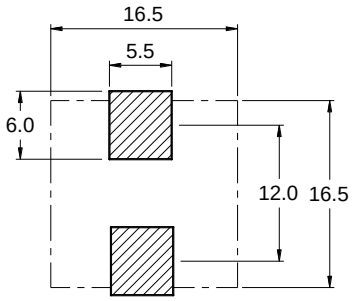
- Magnetic shielded structure: excellent resistance to electro magnetic interference(EMI)
  磁屏蔽结构：抗电磁干扰(EMI)性能强
- Flat wire winding, achieve a low D.C. Resistance.
  扁平线绕组，实现极低的直流电阻。
- Low loss, high efficiency, wide application frequency and application scope.
  低损耗，高效率，应用频率宽，适用范围广。
- Lightweight design, 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℃ ～ +125℃ (Including coil's temperature rise)
  工作温度：-40℃ ～ +125℃ (包含线圈发热)

1 Appearance and dimensions (mm)
外形尺寸

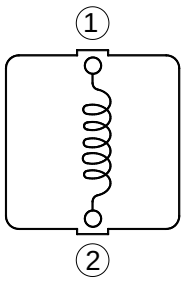


2 Marking
印字标识

3 Reference land pattern (mm)
参考基板尺寸



4 Schematic
原理图



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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 Typical	 Max	Saturation current (A) 饱和电流 ※2 Typical	Temperature rise current (A) 温升电流 ※3 Typical
CSB1660-R56M	3.30	0.82	1.00	80.0	30.0

■ All data is tested based on 25℃ ambient temperature.
所有数据基于环境温度 25℃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 ΔT50℃(Ta=25℃).
温升电流：使产品温度上升到 ΔT50℃时所加载的实际直流电流值(Ta=25℃)。

※ 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