

Features

- Compact size using flat wire, and SMD type.
扁平线小尺寸封装，贴片类型
- Low radiation noise by magnetically shielded construction
闭合磁路封装，低辐射
- High current, Low resistance.
大电流，低电阻
- Operating temperature : -40℃~+150℃.
工作温度：-40℃~+150℃

Applications

- high efficiency DC/DC converters. 高效 DC/DC 转换器
- Single and polyphase buck converters. 单相、多相降压转换器
- Filter for audio applications. 音频滤波应用
- Optimized for high current boost applications. 大电流升压应用优化
- Laptops, Graphic cards, Motherboards. 笔记本、显卡、主板等

Electrical characteristics

Part number 料号	Inductance 电感量 μH	DC resistance 直流电阻 mΩ max(typ.)	DC saturation current 直流饱和电流 A max. (typ.)			Temperature rise current 温升电流 A max.	
			ΔL ≤ 10%	ΔL ≤ 20%	ΔL ≤ 30%	ΔT ≤ 20℃	ΔT ≤ 40℃
RS1890H-5R6	5.6 ± 20%	3.4(3.0)	22.0(24.5)	27.0(29.3)	28.5(29.5)	16.9	22.6
RS1890H-7R6	7.6 ± 20%	4.3(3.6)	17.8(21.3)	22.5(23.9)	24.7(25.2)	14.2	17.8
RS1890H-100	10.0 ± 10%	7.9(6.7)	15.2(17.8)	17.3(18.9)	18.5(19.6)	11.0	14.6
RS1890H-150	15.0 ± 10%	10.4(8.9)	11.1(13.5)	13.3(14.8)	14.0(15.2)	9.2	12.5
RS1890H-220	22.0 ± 10%	16.8(15.0)	8.5(10.2)	10.4(11.9)	11.0(12.3)	7.0	10.1
RS1890H-330	33.0 ± 10%	24.9(21.8)	7.7(9.2)	8.1(10.2)	9.0(10.6)	5.2	7.1
RS1890H-470	47.0 ± 10%	38.5(35.6)	5.9(7.0)	6.6(8.2)	7.0(8.5)	4.2	6.1

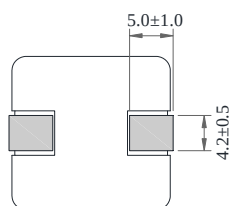
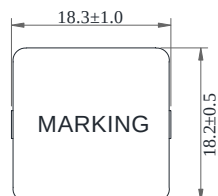
Remark

- Inductance is measured with a LCR meter 4284A or equivalent.
Test frequency at 100kHz
- DC resistance is measured with 16502 Milliohm Meter , or equivalent.
Reference ambient temperature 25℃

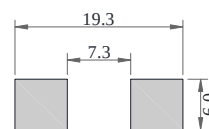
备注

- 电感量测试采用 4284A 数字电桥或同等仪器；
测试频率 100KHz
- 直流电阻测试采用 16502 毫欧表或同等仪器；
环境温度 25℃

Dimensions



SCHEMATIC



PCB LAYOUT

