

PR105

HIGH CURRENT POWER INDUCTOR

大电流功率电感

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°C~+125°C.  
工作温度：-40°C~+125°C



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

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°C	ΔT ≤ 40°C
PR105-801	0.8 ± 20%	4.0(3.2)	24.9(26.3)	25.2(27.6)	25.6(28.5)	12.5	16.3
PR105-102	1.0 ± 20%	4.0(3.2)	16.5(17.8)	17.0(18.6)	17.5(19.4)	12.5	16.3
PR105-122	1.2 ± 20%	6.0(5.2)	20.5(21.7)	21(22.4)	21.3(23.1)	11.0	15.0
PR105-132	1.3 ± 20%	4.0(3.2)	12.9(14.1)	16.8(18.2)	17.2(19.7)	12.5	16.3
PR105-152	1.5 ± 20%	4.0(3.2)	13.5(14.7)	14.0(15.3)	14.5(16.2)	12.5	16.3
PR105-182	1.8 ± 20%	6.0(5.2)	13.3(14.6)	13.8(15.1)	14.3(16.0)	11.0	15.0
PR105-202	2.0 ± 20%	9.0(8.1)	15.3(16.8)	15.8(17.9)	16.2(18.4)	8.5	11.5
PR105-222	2.2 ± 20%	4.0(3.2)	8.9(10.0)	9.6(11.3)	10.0(12.1)	12.5	16.3
PR105-252	2.5 ± 20%	7.5(6.6)	11.4(12.5)	11.8(13.6)	12.1(14.2)	9.0	12.0
PR105-322	3.2 ± 20%	6.0(5.2)	7.3(8.6)	8.0(9.2)	8.5(9.8)	11.0	15.0
PR105-402	4.0 ± 20%	9.0(8.1)	8.3(9.5)	8.5(10.3)	8.8(11.0)	8.5	11.5
PR105-432	4.3 ± 20%	7.5(6.6)	6.4(7.3)	6.8(8.1)	7.0(8.6)	9.0	12.0
PR105-572	5.7 ± 20%	9.0(8.1)	5.4(6.2)	5.8(6.8)	6.0(7.2)	8.5	11.5

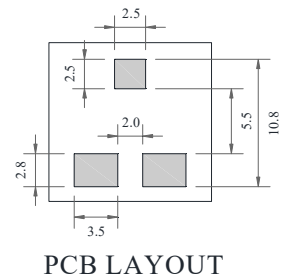
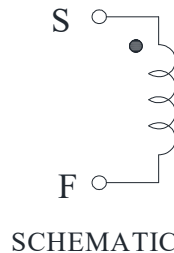
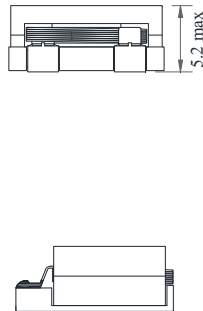
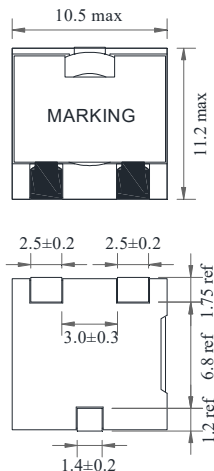
Remark

- 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°C

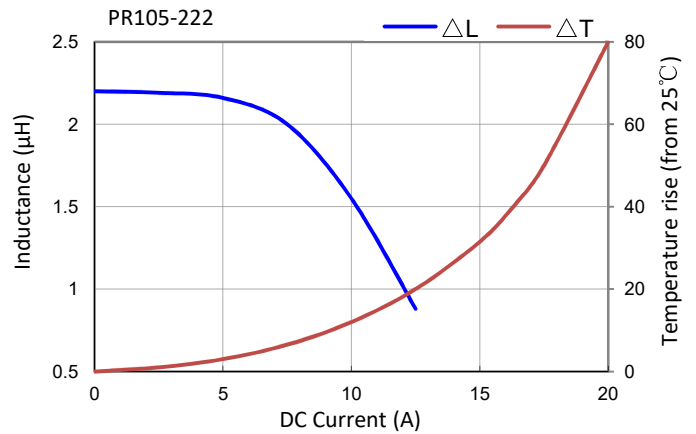
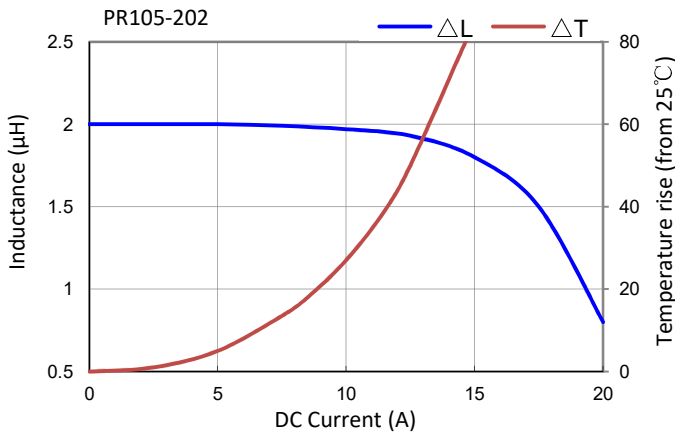
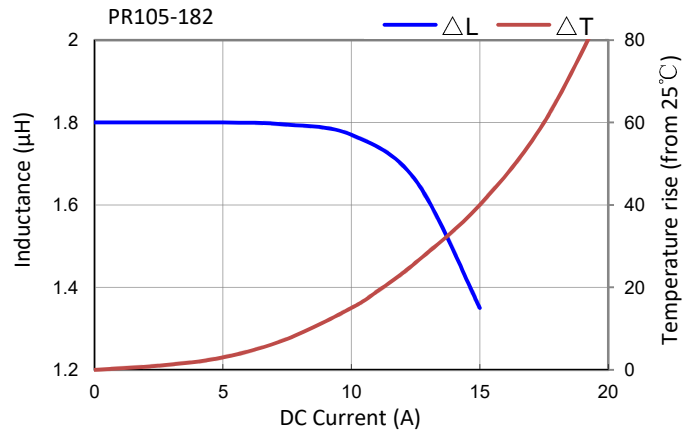
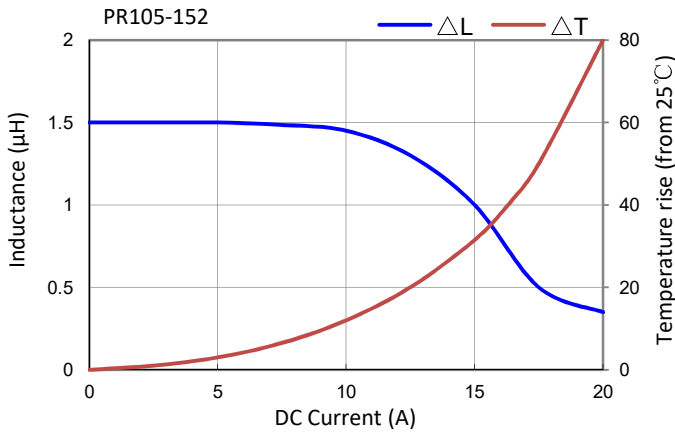
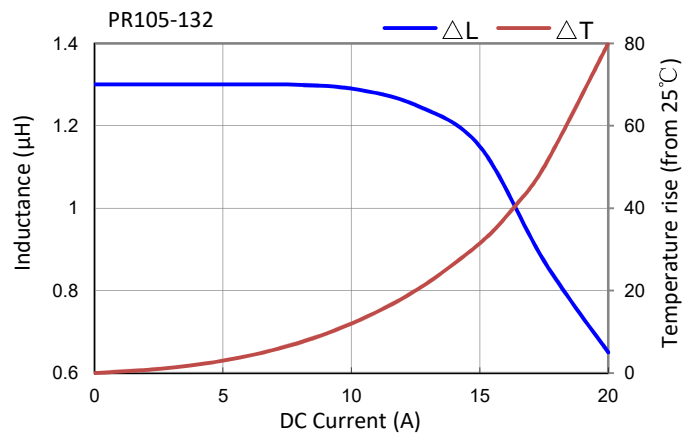
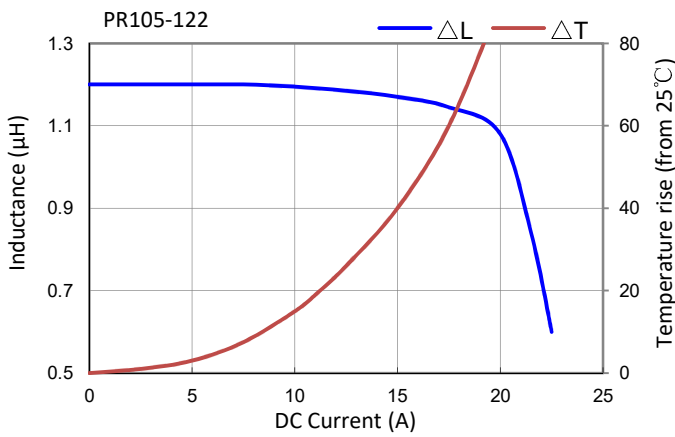
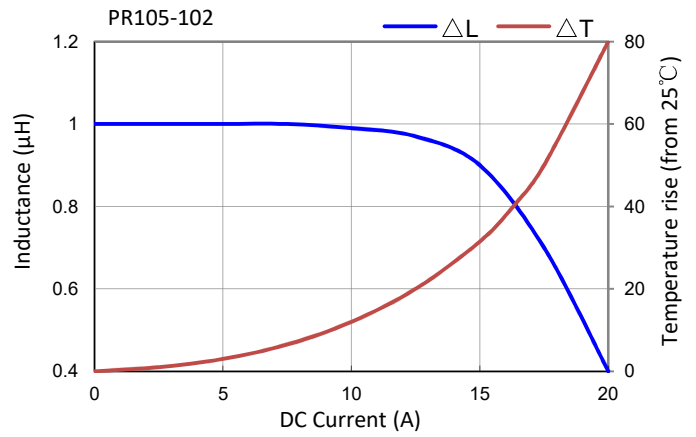
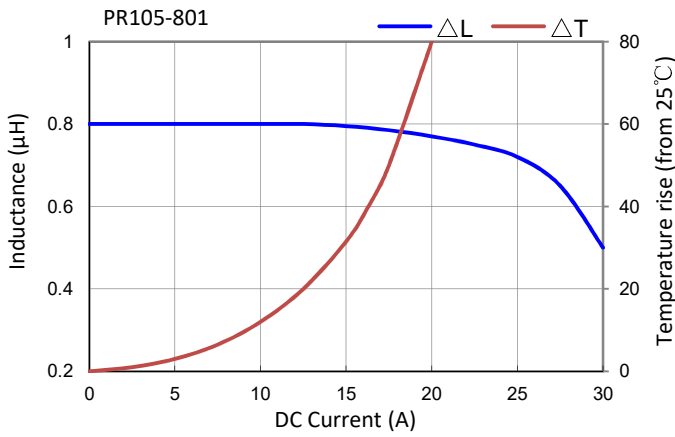
备注

- 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°C

Dimensions



Electrical Characteristic Curve



Electrical Characteristic Curve

