

PG105

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~+150°C.
工作温度：-40°C~+150°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
- 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.			Temperature rise current 温升电流 A max.	
			ΔL ≤ 10%	ΔL ≤ 20%	ΔL ≤ 30%	ΔT ≤ 20°C	ΔT ≤ 40°C
PG105-161	0.16 ± 20%	0.6(0.5)	24.5	44.3	58.0	16.0	23.0
PG105-401	0.4 ± 20%	0.9(0.7)	15.0	27.6	37.0	15.0	21.2
PG105-721	0.72 ± 20%	1.5(1.3)	12.1	23.2	35.0	13.0	18.4
PG105-122	1.2 ± 20%	2.3(2.0)	11.0	21.2	25.0	13.5	18.2
PG105-182	1.8 ± 20%	4.0(3.1)	6.2	12.8	18.0	11.0	15.2
PG105-242	2.4 ± 20%	5.5(4.2)	6.1	12.6	17.0	8.0	12.2
PG105-332	3.3 ± 20%	6.8(5.8)	5.0	10.2	15.0	7.8	11.4
PG105-422	4.2 ± 20%	8.2(7.0)	4.9	10.0	14.0	7.6	10.6
PG105-552	5.5 ± 20%	11.9(9.0)	4.0	7.7	12.0	7.0	9.3
PG105-652	6.5 ± 20%	14.4(11.0)	3.9	7.4	10.0	5.5	7.3
PG105-782	7.8 ± 20%	15.7(12.7)	3.8	6.6	9.5	5.1	7.1
PG105-103	10.0 ± 20%	18.7(16.8)	3.7	6.2	8.5	4.8	6.5
PG105-163	16.0 ± 20%	39.7(32.3)	3.1	4.8	6.5	3.3	4.4

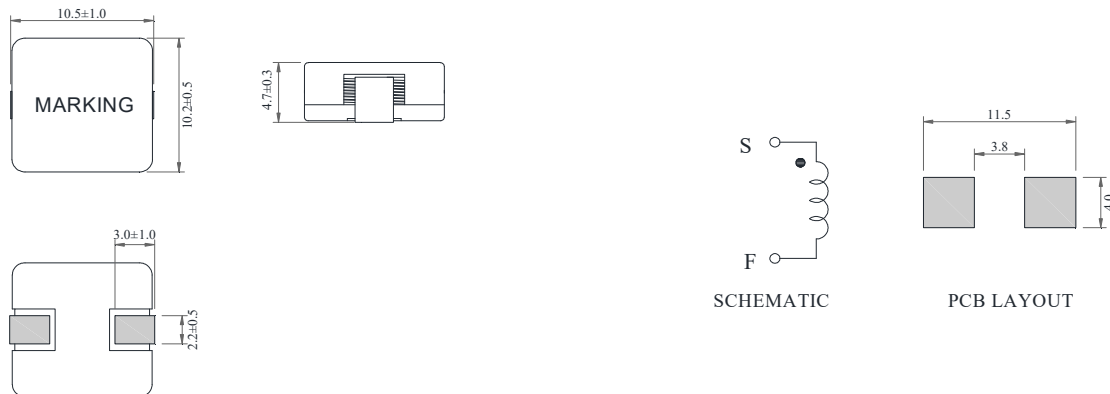
Remark

- 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



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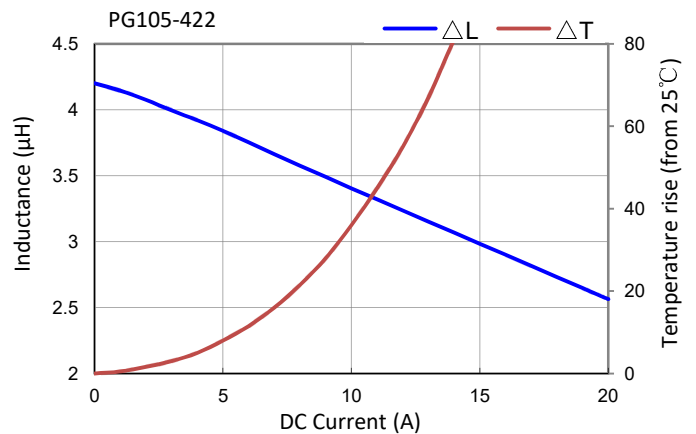
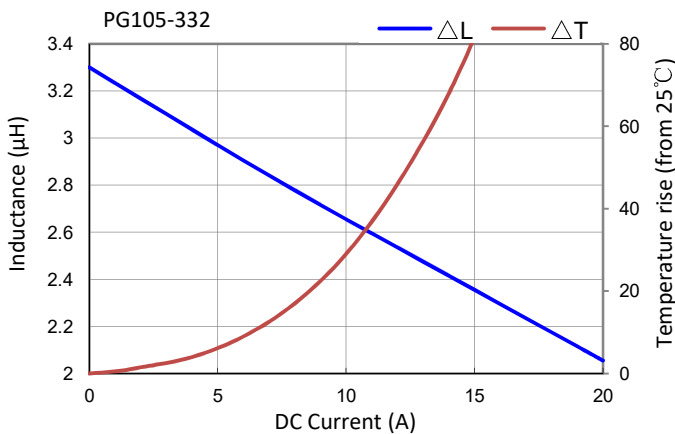
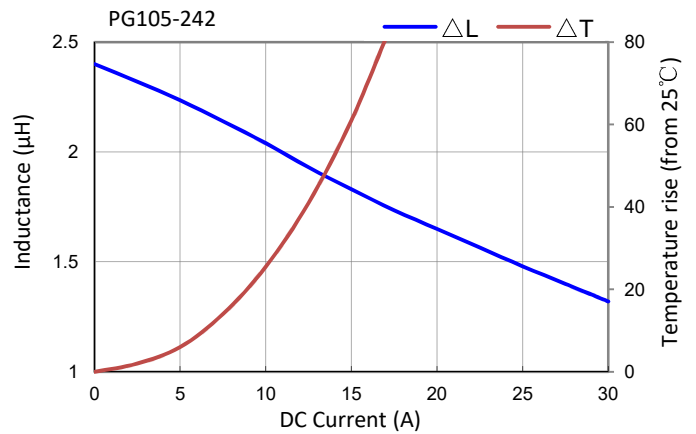
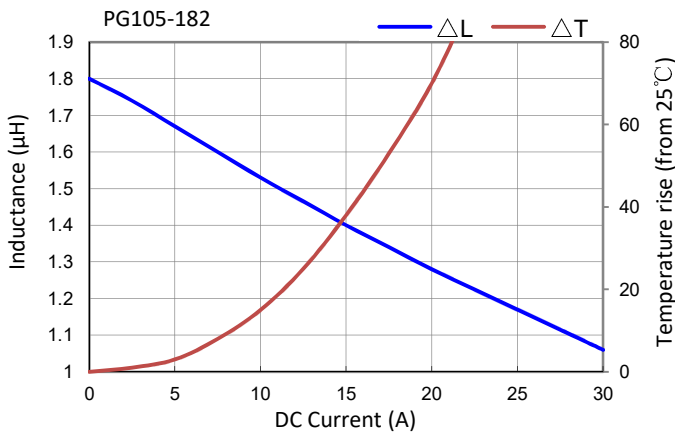
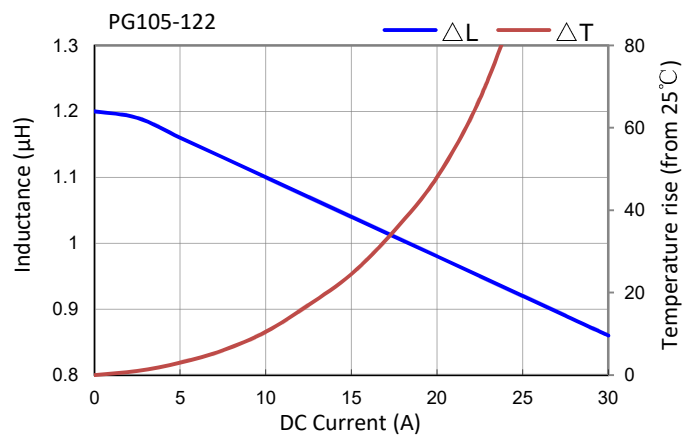
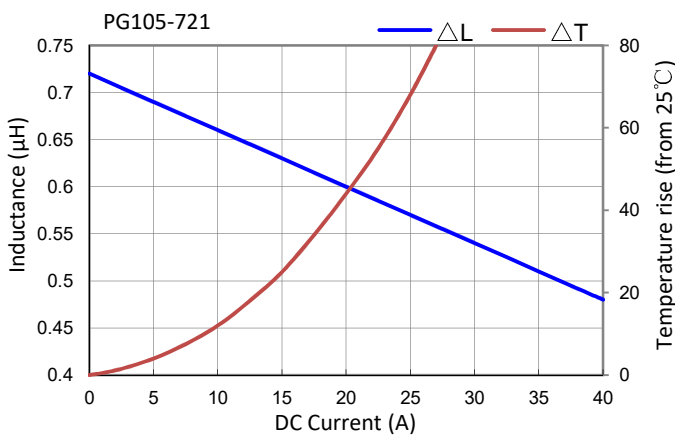
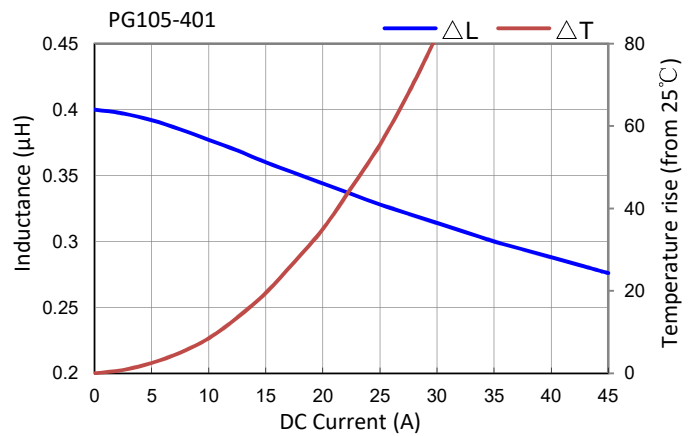
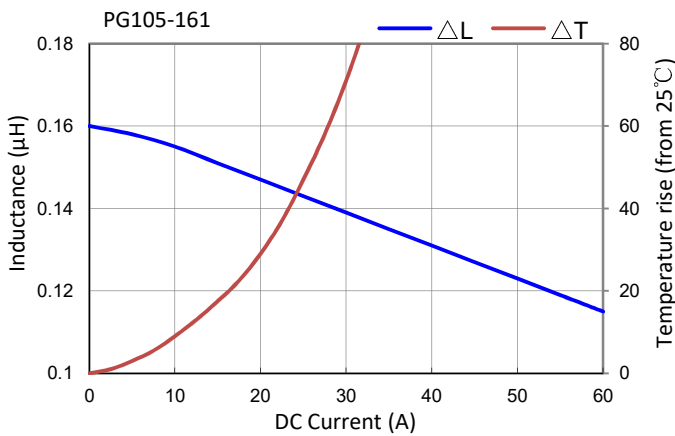
*The specifications of the data measured in the laboratory, differ from conditions of use, please refer to the actual.
*The specifications are subject to change, without prior notice.
*Without approval, this product can not be used for medical military or other high-risk areas

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Electrical Characteristic Curve



Electrical Characteristic Curve

