

PG157 Series

Features 特点

- Using flat wire, and SMD type. 采用扁平线，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 ~ $+125^{\circ}\text{C}$. 工作温度: -40°C ~ $+125^{\circ}\text{C}$
- Tape and reel packaging: -40°C to $+80^{\circ}\text{C}$ 卷带包装: -40°C 至 $+80^{\circ}\text{C}$
- Resistance to soldering heat Max three 40 second reflows at $+260^{\circ}\text{C}$, parts cooled to room temperature between cycles
耐焊接热最多三个 40 秒回流 $+260^{\circ}\text{C}$ ，部件在循环之间冷却至室温
- Moisture Sensitivity Level (MSL) 1 (unlimited floor life at $<30^{\circ}\text{C}$ / 85% relative humidity)
湿气敏感度等级 (MSL) 1 (在 $<30^{\circ}\text{C}$ 时的无限车间寿命/ 85% 相对湿度)



Applications 应用

- 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 电气特性

Part number	①Inductance μH±20%	②DC resistance		③SRF typical MHz	④Isat A typical			⑤Irms A typical	
		mΩ typ	max.		10% drop	20% drop	30% drop	20°Crise	40°Crise
PG157-801ML	0.8	1.15	1.3	72	33	52	67	20.36	29
PG157-142ML	1.4	1.8	2.0	59	27.5	40.2	54	16.1	24
PG157-202ML	2.2	2.7	3.0	49	22	35	46	13	19
PG157-282ML	2.8	3.6	4.0	41	20	32	40.8	11.6	15.8

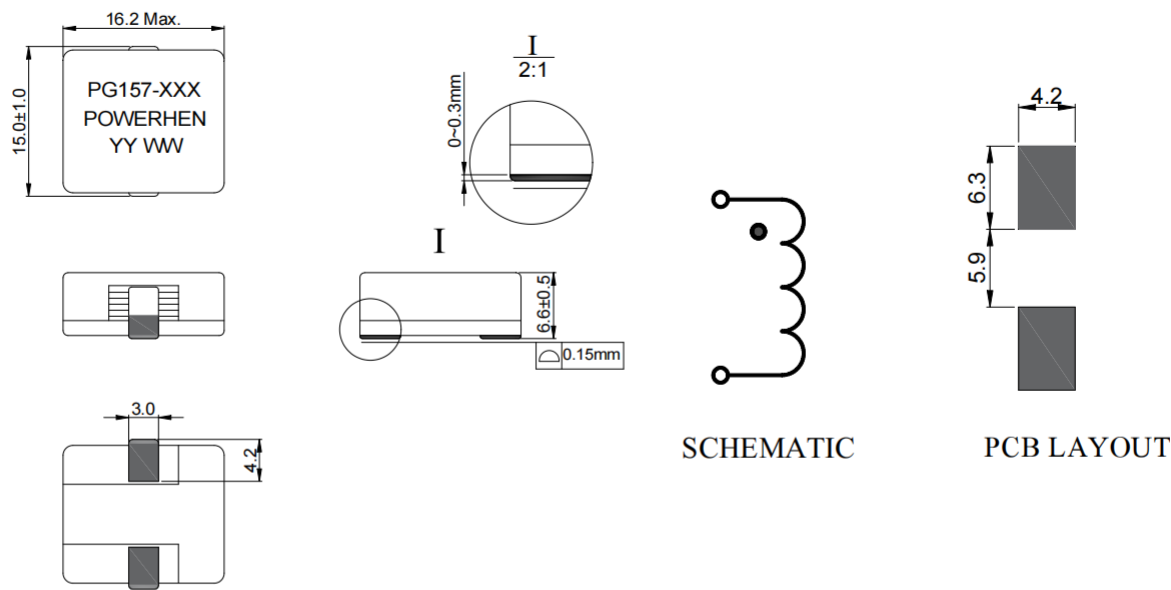
Remark

- ① Inductance is measured with a LCR meter Agilent 4284A or equivalent.
Test frequency at 100kHz
- ② DC resistance is measured with Keithley 580 Milliohm Meter, or equivalent.
Reference ambient temperature 25°C
- ③ SRF measured using an Agilent 4395A network analyzer and an Agilent 16193A test fixture.
- ④ DC current at 25°C that causes the specified Inductance drop from its value without current.
- ⑤ Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.
- ⑥ Electrical specifications at 25°C

备注

- ① 电感量测试采用 Agilent 4284A 数字电桥或同等仪器；
测试频率 100kHz
- ② 直流电阻测试采用 Keithley 580 毫欧表或同等仪器；
环境温度 25°C
- ③ SRF 使用 Agilent 4395A 网络分析仪和 Agilent 16193A 测试夹具测量。
- ④ 直流电流在 25°C ，加载导致指定电感从没有电流的值下降。
- ⑤ 导致指定温度从 25°C 环境温度上升的电流。此信息仅供参考，不代表绝对最大额定值。
- ⑥ 25°C 时的电气规格

Dimensions 结构尺寸



Electrical Characteristic Curve 电气特性曲线

