

## PG189B Series

### Features 特点

- Susing 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°C. 工作温度: -40°C~+125°C
- Tape and reel packaging: -40°C to +80°C 卷带包装: -40°C 至 +80°C
- Resistance to soldering heat Max three 40 second reflows at +260°C,  
parts cooled to room temperature between cycles  
耐焊接热最多三个 40 秒回流 +260°C, 部件在循环之间冷却至室温
- Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C /  
85% relative humidity)  
湿气敏感度等级 (MSL) 1 (在 <30°C /85% 相对湿度时的无限制)



### 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<br>μH±20% | ②DC<br>resistance<br>mΩ<br>typ    max. |      | ③SRF<br>typical | ④Isat<br>A    typical |          |          | ⑤Irms<br>A    typical |          |
|---------------|-----------------------|----------------------------------------|------|-----------------|-----------------------|----------|----------|-----------------------|----------|
|               |                       |                                        |      | MHz             | 10% drop              | 20% drop | 30% drop | 20°Crise              | 40°Crise |
|               |                       |                                        |      |                 |                       |          |          |                       |          |
| PG189B-821ML  | 0.82                  | 0.54                                   | 0.6  | 85              | 42                    | 51       | 65       | 41.5                  | 65.3     |
| PG189B -132ML | 1.3                   | 0.94                                   | 1.03 | 78              | 33                    | 48       | 62       | 34.5                  | 47.7     |
| PG189B -192ML | 1.9                   | 1.20                                   | 1.32 | 51              | 29                    | 40       | 52       | 32.5                  | 42.1     |
| PG189B -262ML | 2.6                   | 1.58                                   | 1.74 | 42              | 21.5                  | 35       | 50.5     | 31.5                  | 36.8     |
| PG189B -352ML | 3.5                   | 3.1                                    | 3.4  | 38              | 20                    | 29       | 40       | 22.5                  | 24.2     |
| PG189B -452ML | 4.5                   | 3.4                                    | 3.74 | 35              | 17                    | 28       | 39       | 20.5                  | 23       |
| PG189B -562ML | 5.6                   | 3.7                                    | 4.1  | 28              | 16                    | 25       | 34       | 19                    | 22.8     |
| PG189B -682ML | 6.8                   | 4.1                                    | 4.5  | 24              | 14                    | 22       | 31       | 18.5                  | 22       |
| PG189B -103ML | 10                    | 6.9                                    | 7.6  | 14              | 12                    | 19       | 26       | 15                    | 16.5     |
|               |                       |                                        |      |                 |                       |          |          |                       |          |

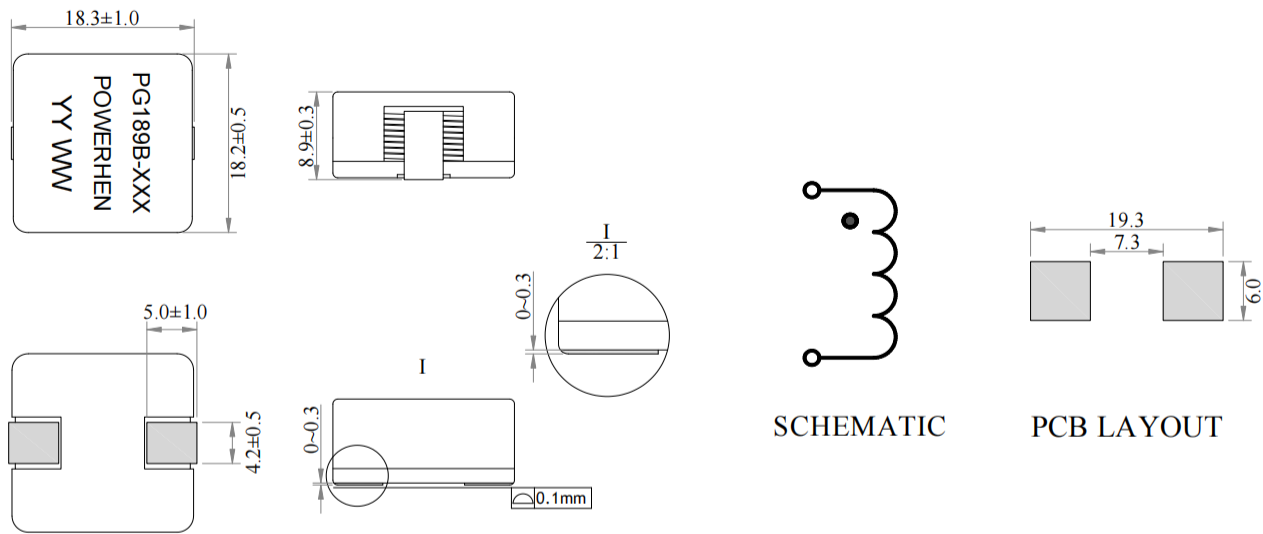
### Remark

- ① Inductance is measured with a LCR meter Agilent 4284A or equivalent. Test frequency at 100kHz 1V
- 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 1V
- 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

