芯芒微电子

XINMANG MICROELECTRONICS

POWERHEN

Electronics

# 产品规格书

# PG189A

贴片大电流功率电感


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## SMD HIGH CURRENT POWER INDUCTOR 贴片大电流功率电感

# ■PG189A 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℃~+125℃. 工作温度：-40℃~+125℃
- 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（在车间 <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 | ① Inductance μH±20% | ②DC resistance mΩ typ | max. | ③SRF typical MHz | ④Isat A typical 10% drop | 20% drop | 30% drop | ⑤Irms A typical 20℃rise | 40℃rise |
|---|---|---|---|---|---|---|---|---|---|
| PG189A-562ML | 5.6 | 2.82 | 3.1 | 26 | 4.5 | 7.1 | 28.5 | 16.9 | 27.1 |
| PG189A-762ML | 7.6 | 3.75 | 4.13 | 20 | 5 | 8.5 | 22.8 | 14.2 | 12.8 |
| PG189A-103ML | 10 | 6.9 | 7.6 | 16 | 6 | 13 | 19.2 | 11.0 | 16.4 |
| PG189A-153ML | 15 | 9.0 | 9.9 | 14 | 5.1 | 14.6 | 15.4 | 9.2 | 14.1 |
| PG189A-223ML | 22 | 14.6 | 16.1 | 12.5 | 4.5 | 12.1 | 12.5 | 7.0 | 10.9 |
| PG189A-333ML | 33 | 21.7 | 23.87 | 9.5 | 6 | 9.1 | 9.5 | 5.2 | 8.7 |
| PG189A-473ML | 47 | 33.5 | 36.8 | 7.5 | 6.95 | 7.6 | 7.8 | 4.2 | 6.4 |

### Remark

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

②DC resistance is measured with keithley 580 Milliohm Meter , or equivalent. Reference ambient temperature 25°C

③SRF measured using an Agilent 4395A network analyzer and an Agilent 16193A test fixture.

④DC current at 25°C that causes the specified Inductance drop from its value without current.

⑤Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.

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

③SRF 使用 Agilent 4395A 网络分析仪和 Agilent 16193A 测试夹具测量。

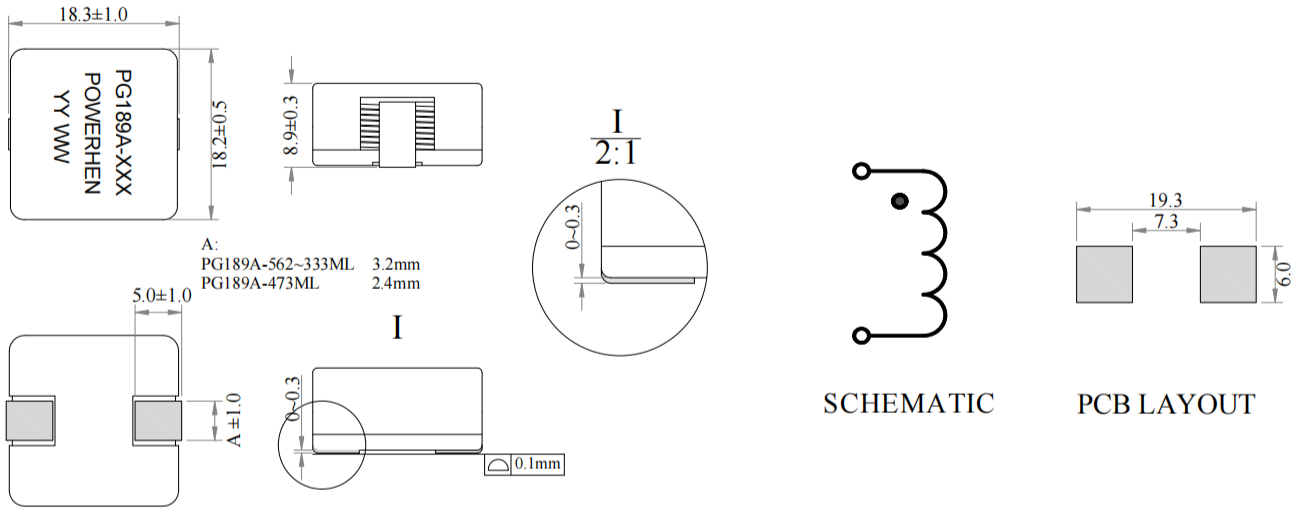
④直流电流在 25° C,加载导致指定电感从没有电流的值下降。

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。

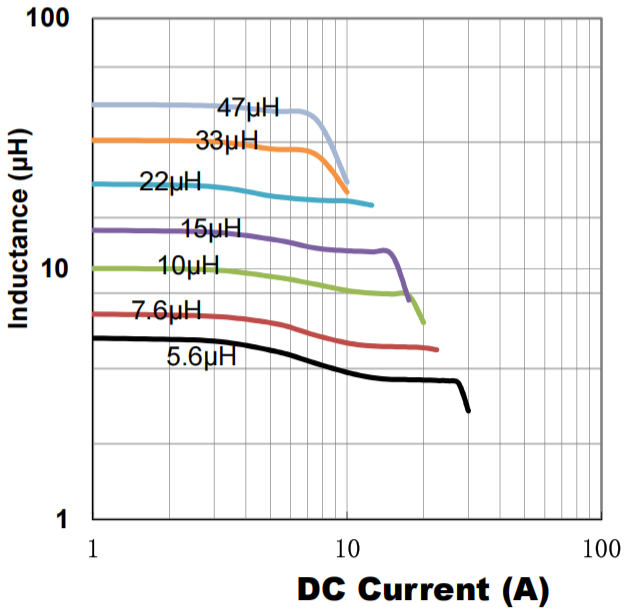
⑥25° C 时的电气规格

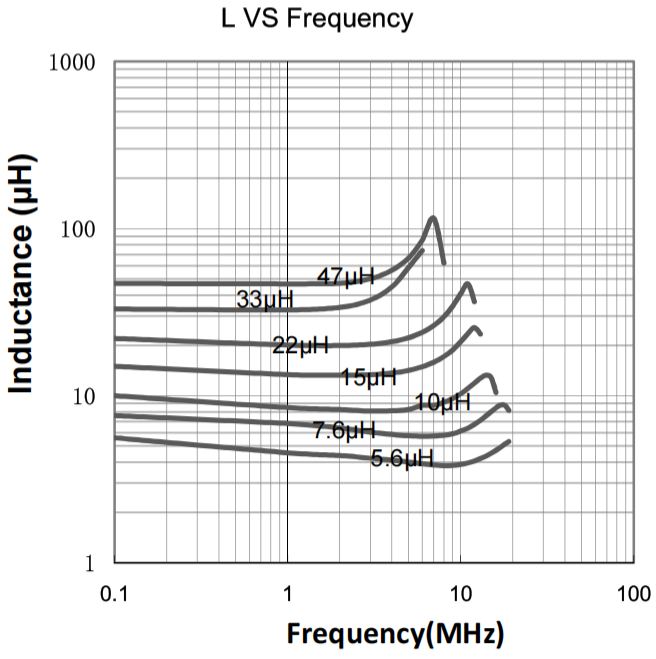
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## ■Dimensions 结构尺寸



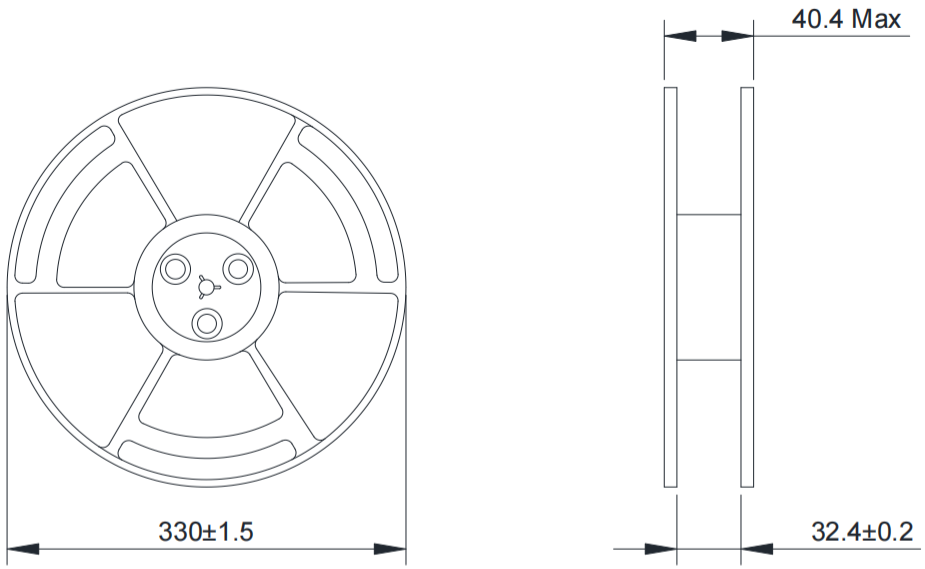

## Electrical Characteristic Curve 电气特性曲线

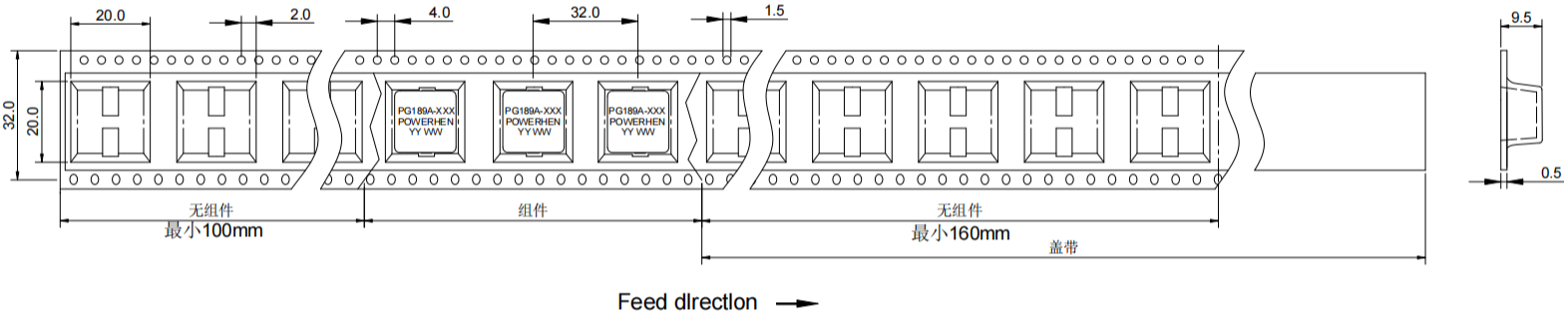


## ■Packaging Specification - Tape and Reel: [mm]

包装规格 - 卷带包装：[mm]




Weight 重量: 12.38~13.8g/PCS

Packaging 包装数量: 150 PCS/Reel