芯芒微电子

XINMANG MICROELECTRONICS

POWERHEN

Electronics

# 产品规格书

# PG2212

贴片大电流功率电感


联系我们 / CONTACT

电话：0755-28088656

手机 / 微信：13823685284

地址：深圳市龙华新区观澜深粮汽车电子特色工业园A2栋3楼


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

## ■PG2212 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 +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 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
- 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 mΩ typ | ②DC resistance mΩ max. | ③SRF typical MHz | ④Isat A typical 10% drop | ④Isat A typical 20% drop | ④Isat A typical 30% drop | ⑤Irms A typical 20℃rise | ⑤Irms A typical 40℃rise |
|---|---|---|---|---|---|---|---|---|---|
| **PG2212-332ML** | 3.3 | 1.7 | 1.9 | 230 | 18.5 | 20.8 | 35 | 25 | 33.2 |
| **PG2212-682ML** | 6.8 | 2.1 | 2.35 | 100 | 8 | 13 | 31 | 24 | 30.5 |
| **PG2212-822ML** | 8.2 | 2.7 | 3.1 | 72 | 7.5 | 25.8 | 30 | 21 | 26.2 |
| **PG2212-103ML** | 10 | 3.4 | 3.8 | 59 | 5 | 7 | 27 | 17 | 23 |
| **PG2212-123ML** | 12 | 4.3 | 4.8 | 45 | 7 | 12 | 28.5 | 14 | 20 |
| **PG2212-223ML** | 22 | 7.0 | 7.7 | 35 | 8.5 | 18.9 | 19.2 | 12 | 15.6 |
| **PG2212-333ML** | 33 | 13.2 | 14.6 | 26 | 6.25 | 15.6 | 16 | 8.5 | 11 |
| **PG2212-473ML** | 47 | 19.2 | 21.2 | 30 | 10.25 | 11.3 | 13.2 | 8.4 | 9 |
| **PG2212-683ML** | 68 | 27.3 | 30 | 22 | 8.5 | 9.2 | 9.5 | 6.2 | 7.5 |
| **PG2212-823ML** | 82 | 30.4 | 33.5 | 28 | 8 | 8.5 | 8.75 | 6.1 | 7 |

### Remark

①Inductance 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

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.

⑥Electrical 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

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

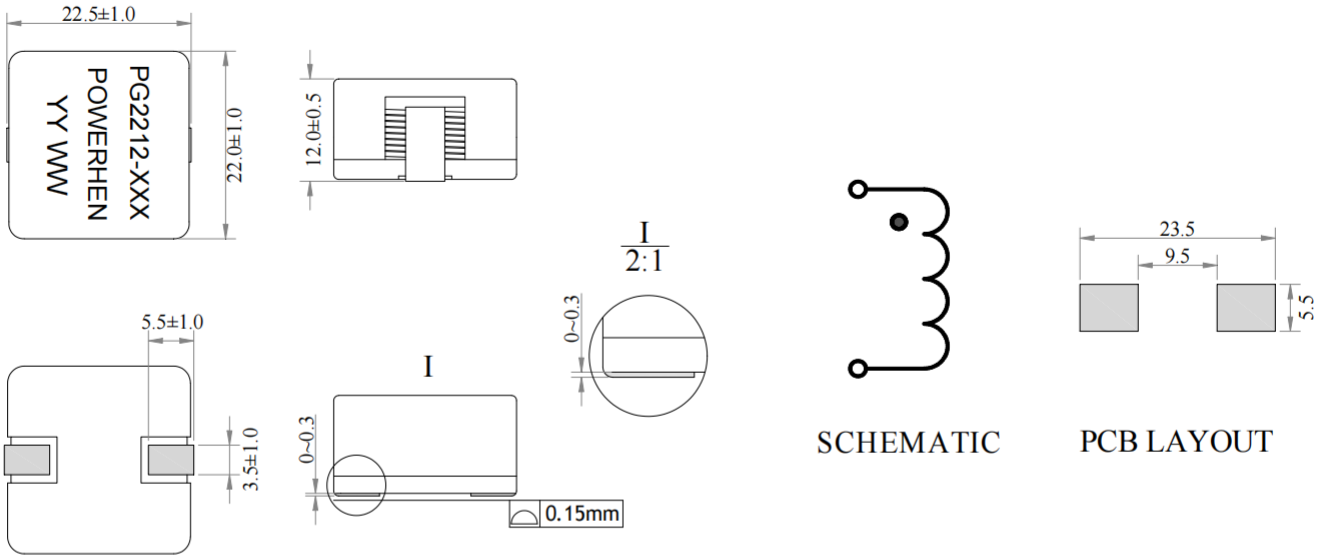
④直流电流在 25° C，加载导致指定电感从没有电流的值下降。

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。

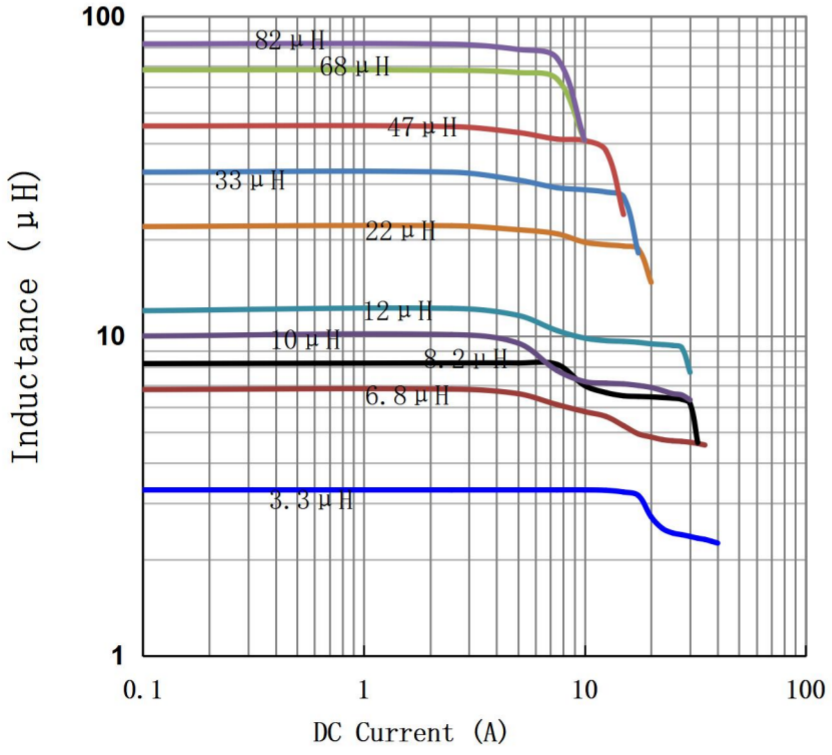
⑥25° C 时的电气规格

*ShenZhen Powerhen Electronic Co.,Ltd*
*Addr:Floor 3, Building 2, Shenliang Automotive Electronic Industrial Park, Guanlan Town, Shenzhen*
*Tel:0755-23570708* *E-Mail:sales@powerhen.com*

## ■Dimensions 结构尺寸

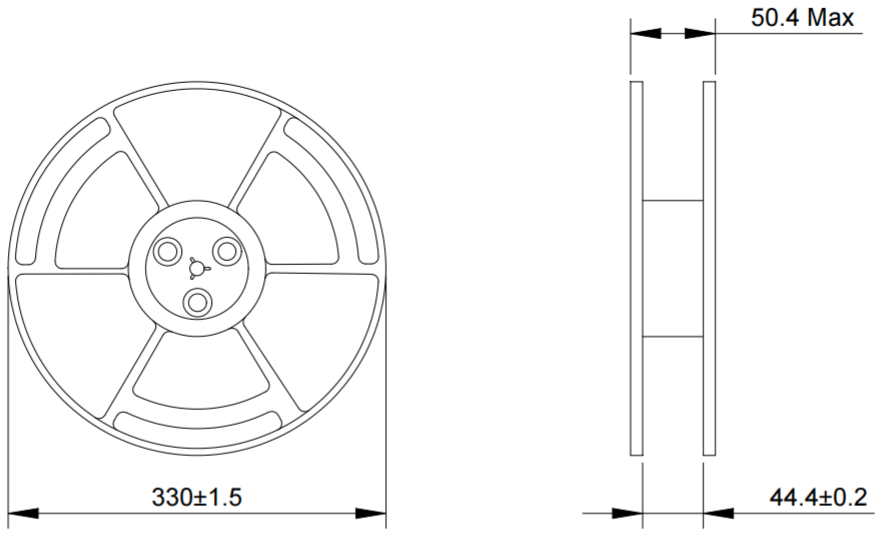


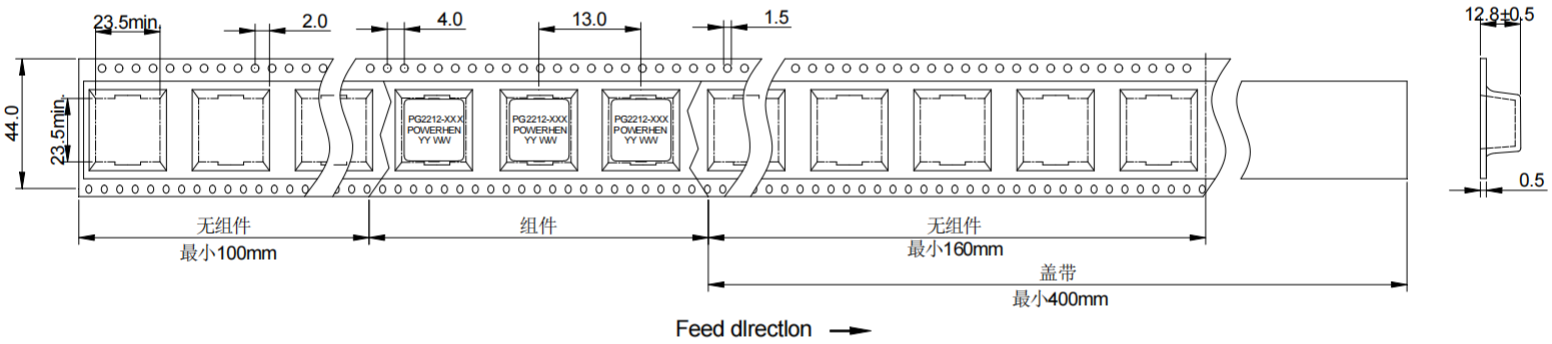

**Electrical Characteristic Curve** 电气特性曲线



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

## 包装规格 - 卷带包装：[mm]




Weight 重量: 22.43~27.45g/PCS

Packaging 包装数量: 120 PCS/Reel