芯芒微电子

XINMANG MICROELECTRONICS

POWERHEN

Electronics

# 产品规格书

# PR1908

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

## ■PR19XX 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 <30° C/ 85% 相对湿度时无限制）




### 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

### Electrical characteristics

| Part number 料号 | Inductance ① 电感量 μH ±10% | DCR (mΩ)② 直流电阻 typ | DCR (mΩ)② 直流电阻 max | SRF ③ 自谐频率 (MHz) reference | Isat ④ 直流饱和电流 A typical drop10% | Isat ④ 直流饱和电流 A typical drop20% | Isat ④ 直流饱和电流 A typical drop30% | Irms ⑤ 温升电流 A typiacl rise20℃ | Irms ⑤ 温升电流 A typiacl rise40℃ |
|---|---|---|---|---|---|---|---|---|---|
| PR1908-102KL | 1.0 | 0.95 | 1.05 | 48 | 46.6 | 48.3 | 49.1 | 25.2 | 36.3 |
| PR1909-152KL | 1.5 | 1.35 | 1.5 | 46 | 48.1 | 49.2 | 50.2 | 23.4 | 30.2 |
| PR1910-222KL | 2.2 | 1.8 | 2.0 | 41 | 43.6 | 45.7 | 46.3 | 19.1 | 27.2 |
| PR1911-332KL | 3.3 | 2.25 | 2.5 | 31 | 35.1 | 36.4 | 37.1 | 17.2 | 25.1 |
| PR1911-472KL | 4.7 | 2.25 | 2.5 | 26 | 25.5 | 26.6 | 27.3 | 17.2 | 25.1 |
| PR1908-682KL | 6.8 | 7.60 | 8.35 | 18 | 23.9 | 25.3 | 26.4 | 10.1 | 12.7 |
| PR1908-103KL | 10 | 8.80 | 9.68 | 15 | 19.1 | 20.2 | 20.8 | 8.8 | 11.7 |
| PR1909-153KL | 15 | 11.0 | 12.1 | 13 | 15.8 | 16.4 | 16.9 | 7.6 | 10.7 |
| PR1910-203KL | 20 | 13.5 | 14.85 | 11 | 13.4 | 14.5 | 14.9 | 6.4 | 9.5 |
| PR1911-303KL | 30 | 17.0 | 18.7 | 10 | 11.2 | 12.5 | 12.9 | 5.7 | 8.6 |

### Remark

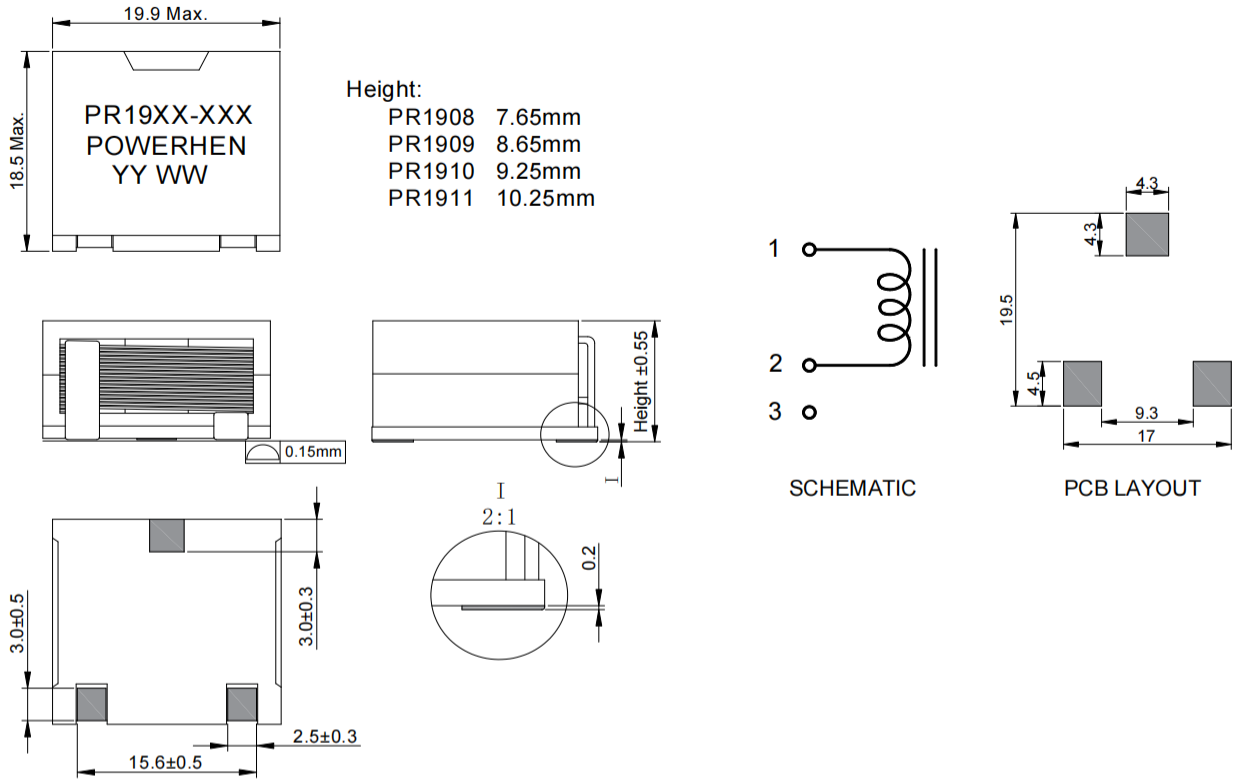
①Inductance is measured with a LCR meter Agilent 4284A or equivalent. Test frequency at 100kHz 1V
②DC resistance is measured with keithley 580 Milliohm Meter , or equivalent. Reference ambient temperature 25°C
③SRF measured using an Agilent 4395A network analyzer and an Agilent 16093A test fixture.
④DC 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

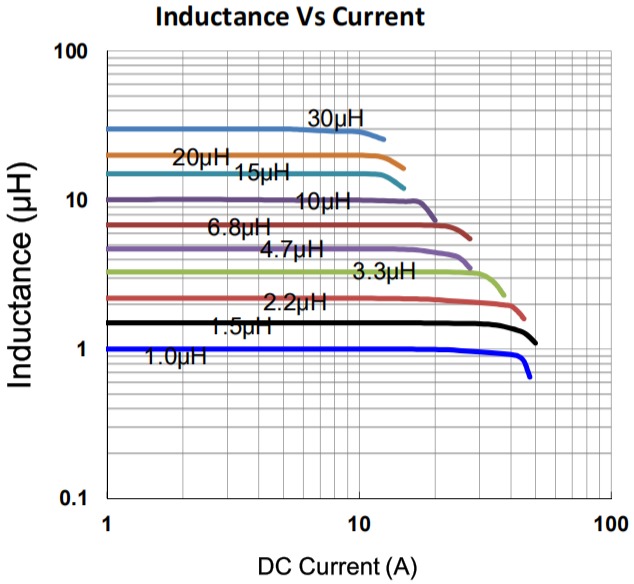
①电感量测试采用 Agilent 4284A 数字电桥或同等仪器；测试频率 100KHz 1V
②直流电阻测试采用 keithley 580 毫欧表或同等仪器；环境温度 25° C
③SRF 使用 Agilent 4395A 网络分析仪和 Agilent 16093A 测试夹具测量。
④直流电流在 25° C，加载导致指定电感从没有电流的值下降。
⑤导致指定温度从 25° C 环境温度上升的电流。 此信息仅供参考，不代表绝对最大额定值。
⑥25° C 时的电气规格

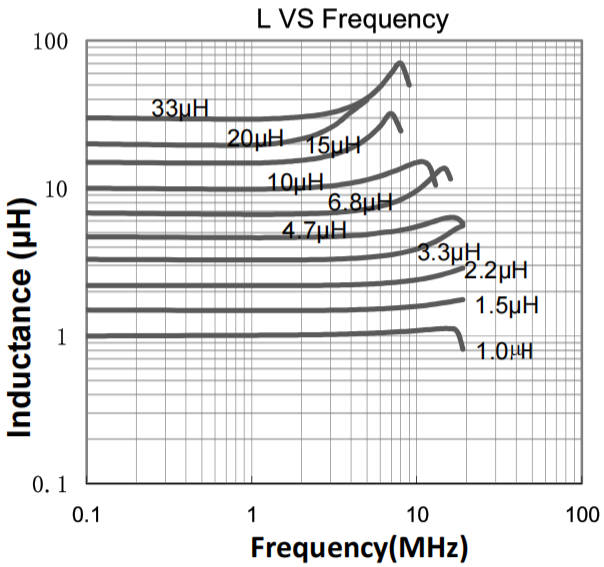
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**Dimension** 结构尺寸




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

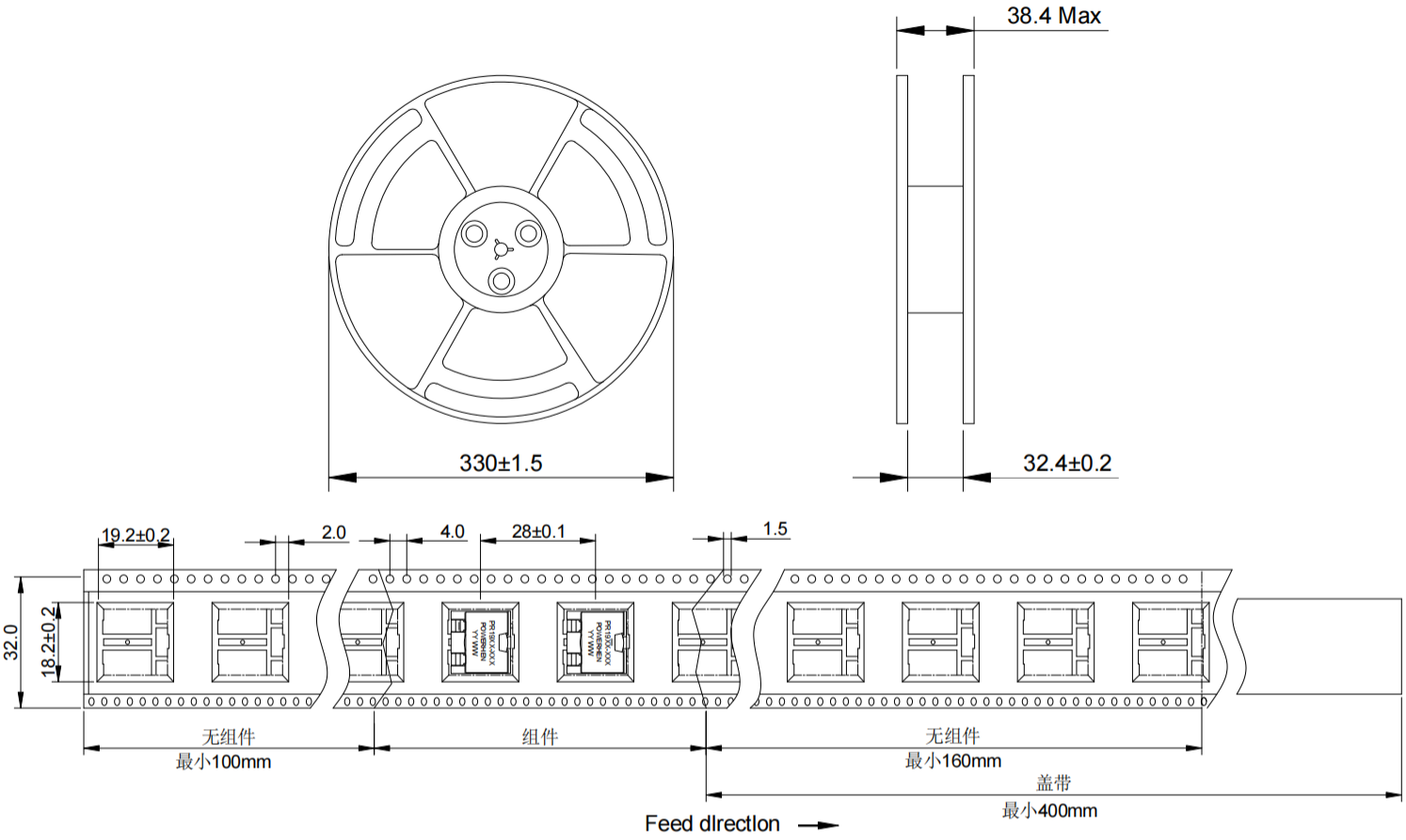


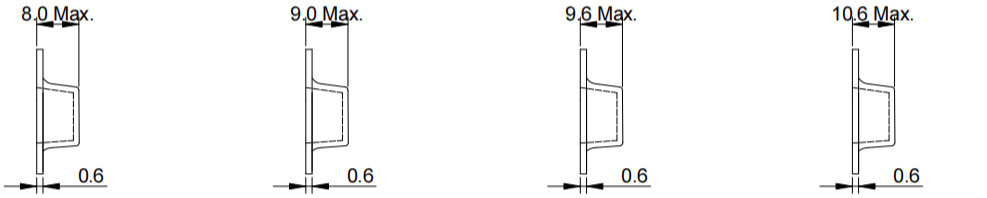




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## ■Packaging Specification - Tape and Reel: [mm]

包装规格 - 卷带包装：[mm]




PR1908 Series.
Weight 重量:11.4g/PCS
Packaging 包装数量: 220 PCS/Reel

PR1909 Series.
Weight 重量:11.65g/PCS
Packaging 包装数量: 210 PCS/Reel

PR1910 Series.
Weight 重量:12.7g/PCS
Packaging 包装数量: 200 PCS/Reel

PR1911 Series.
Weight 重量:13.5g/PCS
Packaging 包装数量: 180 PCS/Reel