

## SMD HIGH CURRENT POWER INDUCTOR

## 贴片大电流功率电感

## ■ PR2700 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 时的无限车间寿命/ 85% 相对湿度)

## 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<br>料号 | Inductance①<br>电感量<br>μH ±10% | DCR (mΩ)②<br>直流电阻 |      | SRF ③<br>自谐频率<br>(MHz) | Isat ④<br>直流饱和电流<br>A typical |         |         | Irms⑤<br>温升电流<br>A typiacl |         |
|-------------------|-------------------------------|-------------------|------|------------------------|-------------------------------|---------|---------|----------------------------|---------|
|                   |                               |                   |      |                        |                               |         |         |                            |         |
|                   |                               | typ               | max  | reference              | drop10%                       | drop20% | drop30% | rise20℃                    | rise40℃ |
| PR2712-102KL      | 1.0                           | 0.46              | 0.51 | 52                     | 101.5                         | 103     | 104     | 38.0                       | 52.0    |
| PR2712-152KL      | 1.5                           | 0.46              | 0.51 | 48                     | 67.0                          | 71.0    | 72.0    | 38.2                       | 52.5    |
| PR2714-222KL      | 2.2                           | 0.68              | 0.75 | 41                     | 68.0                          | 72.0    | 73.0    | 35.0                       | 46.5    |
| PR2715-332KL      | 3.3                           | 0.88              | 0.97 | 38                     | 60.3                          | 62.2    | 62.8    | 32.0                       | 42.5    |
| PR2715-472KL      | 4.7                           | 1.39              | 1.53 | 32                     | 53.5                          | 55.4    | 56.2    | 29.0                       | 37.0    |
| PR2716-682KL      | 6.8                           | 1.66              | 1.83 | 27                     | 44.0                          | 45.9    | 46.8    | 27.8                       | 34.5    |
| PR2717-103KL      | 10                            | 1.92              | 2.12 | 22                     | 34.8                          | 35.6    | 36.4    | 25.0                       | 33.0    |
| PR2717-153KL      | 15                            | 1.92              | 2.12 | 18                     | 22.9                          | 24.4    | 25.2    | 25.0                       | 33.0    |

## Remark

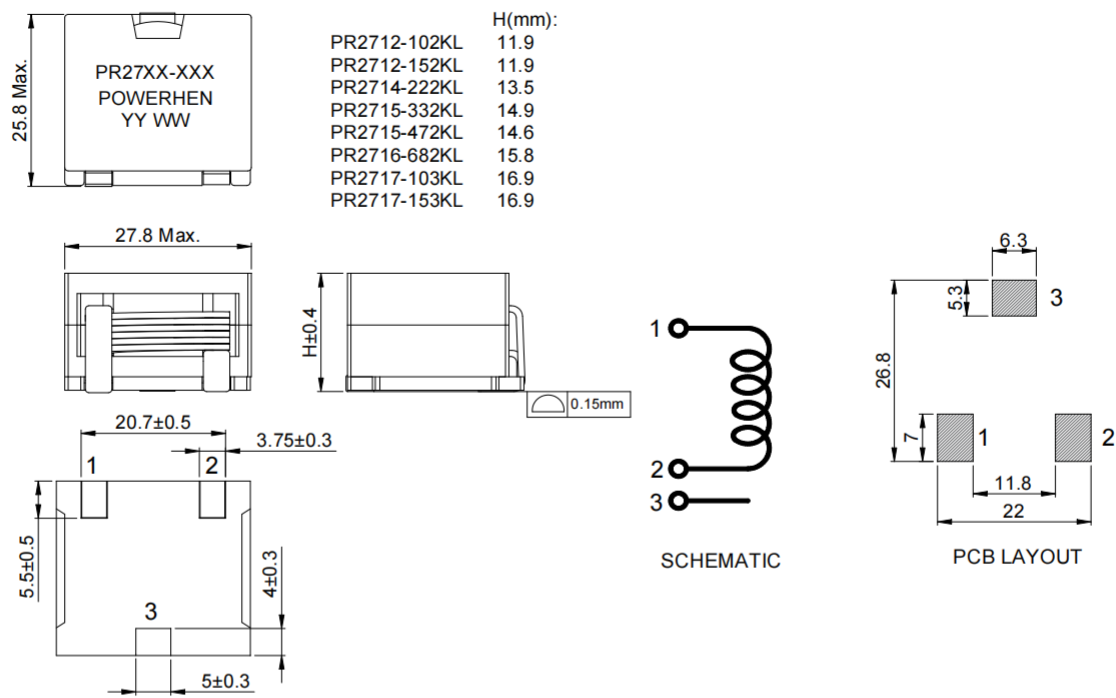
- ① Inductance is measured with a LCR meter Agilent 4284A or equivalent.  
Test frequency at 100kHz
- ② DC resistance is measured with Keithley 580 Milliohm Meter, or equivalent.  
Reference ambient temperature 25°C
- ③ SRF measured using an Agilent 4395A network analyzer and an Agilent 16093A test fixture.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

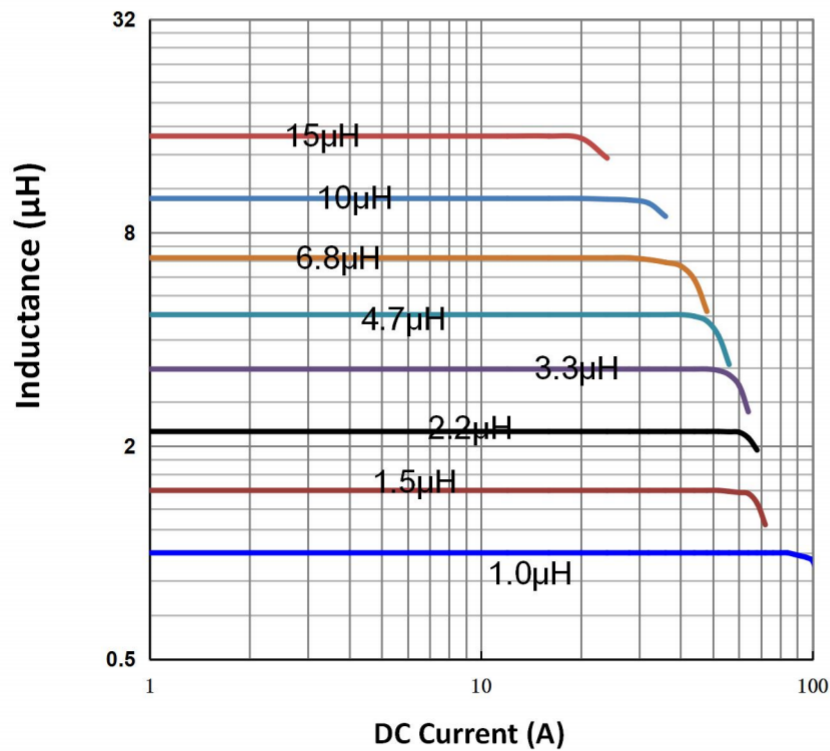
- ① 电感量测试采用 Agilent 4284A 数字电桥或同等仪器;  
测试频率 100KHz
- ② 直流电阻测试采用 Keithley 580 毫欧表或同等仪器;  
环境温度 25°C
- ③ SRF 使用 Agilent 4395A 网络分析仪和 Agilent 16093A 测试夹具测量。
- ④ 直流电流在 25°C, 加载导致指定电感从没有电流的值下降。
- ⑤ 导致指定温度从 25°C 环境温度上升的电流。此信息仅供参考, 不代表绝对最大额定值。
- ⑥ 25°C 时的电气规格



Dimension 结构尺寸



■ PR2700 Series Electrical Characteristic Curve 电气特性曲线



■ Packaging Specification - Tape and Reel: [mm]

包装规格 - 卷带包装: [mm]

