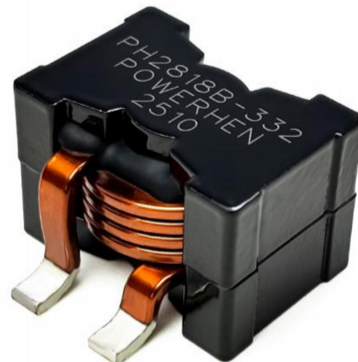


## ■ PH2818B Series

## 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 :  $-40^{\circ}\text{C}$  ~  $+125^{\circ}\text{C}$ . 工作温度:  $-40^{\circ}\text{C}$  ~  $+125^{\circ}\text{C}$
- Tray packaging:  $-40^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$  托盘包装:  $-40^{\circ}\text{C}$  至  $+80^{\circ}\text{C}$
- Resistance to soldering heat Max three 40 second reflows at  $+260^{\circ}\text{C}$ ,  
parts cooled to room temperature between cycles  
耐焊接热 最多三个 40 秒回流  $+260^{\circ}\text{C}$ ，部件在循环之间冷却至室温
- Moisture Sensitivity Level (MSL) 1 (unlimited floor life at  $<30^{\circ}\text{C}$  /  
85% relative humidity)  
湿气敏感度等级 (MSL) 1 (在  $<30^{\circ}\text{C}$  / 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>$\mu\text{H}$<br>$\pm 10\%$ | ②DCR<br>直流电阻<br>$\text{m}\Omega$ |      | ③SRF<br>自谐频率<br>$\text{MHz}$ | ④Isat<br>饱和电流<br>A typical |          |          | ⑤I <sub>rms</sub><br>温升电流<br>A typical |                        |
|---------------|--------------------------------------------|----------------------------------|------|------------------------------|----------------------------|----------|----------|----------------------------------------|------------------------|
|               |                                            | typ                              | max. |                              | typical                    | 10% drop | 20% drop | 30% drop                               | 20°C rise<br>40°C rise |
| PH2818B-102KL | 1.0                                        | 0.44                             | 0.48 | 53                           |                            | 122      | 124      | 125                                    | 56<br>86               |
| PH2818B-152KL | 1.5                                        | 0.44                             | 0.48 | 37                           |                            | 85       | 89       | 91.8                                   | 56<br>86               |
| PH2818B-332KL | 3.3                                        | 0.88                             | 0.97 | 28                           |                            | 61       | 68       | 70                                     | 47<br>58               |
| PH2818B-472KL | 4.7                                        | 0.88                             | 0.97 | 22                           |                            | 43.6     | 48.2     | 49.4                                   | 47<br>58               |
| PH2818B-682KL | 6.8                                        | 0.88                             | 0.97 | 18                           |                            | 31.8     | 37.8     | 39.2                                   | 47<br>58               |
| PH2818B-103KL | 10                                         | 0.88                             | 0.97 | 15                           |                            | 22.8     | 24       | 25                                     | 47<br>58               |

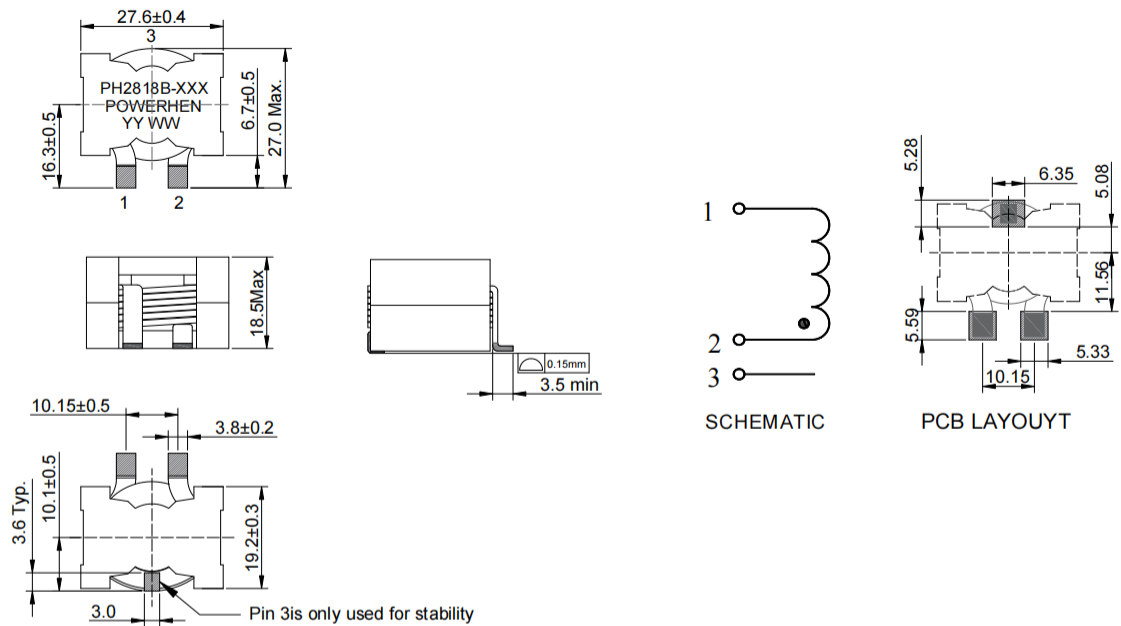
## Remark

- ① Inductance is measured with a LCR meter Agilent 4284A or equivalent.  
Test frequency at 500kHz
- ② DC resistance is measured with Keithley 580 Milliohm Meter, or equivalent.  
Reference ambient temperature  $25^{\circ}\text{C}$
- ③ SRF measured using an Agilent 4395A network analyzer and an Agilent 16193A test fixture.
- ④ DC current at  $25^{\circ}\text{C}$  that causes the specified Inductance drop from its value without current.
- ⑤ Current that causes the specified temperature rise from  $25^{\circ}\text{C}$  ambient. This information is for reference only and does not represent absolute maximum ratings.
- ⑥ Electrical specifications at  $25^{\circ}\text{C}$

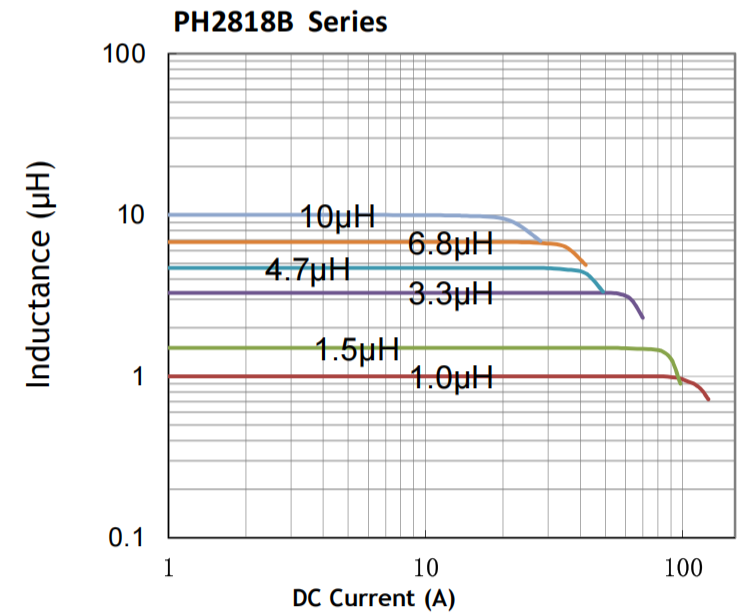
## 备注

- ① 电感量测试采用 Agilent 4284A 数字电桥或同等仪器；  
测试频率 500KHz
- ② 直流电阻测试采用 Keithley 580 毫欧表或同等仪器；  
环境温度  $25^{\circ}\text{C}$
- 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  $25^{\circ}\text{C}$ ，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  $25^{\circ}\text{C}$  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  $25^{\circ}\text{C}$  时的电气规格

Dimensions 结构尺寸

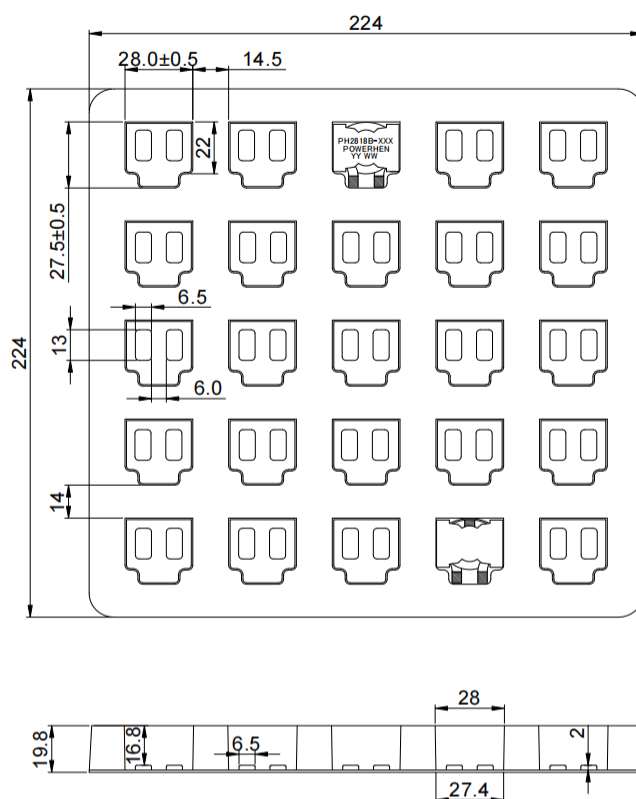


Electrical Characteristic Curve 电气性能曲线



■ Packaging Specification - tray: [mm]

包装规格 - 托盘包装: [mm]



Weight 重量: 38.1g/PCS  
Packaging 包装数量: 25 PCS/盘