

## PER2200 Planar High Current Power Inductor

## 平面大电流功率电感

## Features 特点

- Flat wire windings provide extremely low DC and AC resistance.  
扁平绕组提供极低的直流和交流电阻
- Low radiation noise by magnetically shielded construction  
闭合磁路封装，低辐射
- High temperature ferrite core  
高温铁氧体磁芯
- Operating temperature : -40°C~+125°C.  
工作温度: -40°C~+125°C
- 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

- Energy storage chokes for 储能扼流圈
- Buck/boost choke for 48 V boardnet converter. 用于 48V 转换降压/升压扼流圈
- Filter for audio applications. 音频滤波应用
- DC-DC converters. 直流/直流转换器

## Electrical characteristics 电气特性

| Part number<br>料号 | Inductance①<br>电感量<br>μH±10% | DCR ②<br>直流电阻 mΩ |      | SRF③<br>自谐振频率<br>MHz | Isat④<br>饱和电流<br>A typ |          |          |          | Irms⑤<br>温升电流<br>A max. |           |
|-------------------|------------------------------|------------------|------|----------------------|------------------------|----------|----------|----------|-------------------------|-----------|
|                   |                              | Typ              | Max. |                      | typical                | 10% drop | 20% drop | 30% drop | 20°C rise               | 40°C rise |
| PER2210-102KL     | 1.0                          | 0.55             | 0.65 | 45                   |                        | 51       | 52.4     | 53.1     | 24.2                    | 35.1      |
| PER2211-152KL     | 1.5                          | 0.8              | 0.9  | 39                   |                        | 50       | 51.6     | 52.2     | 23.4                    | 32.9      |
| PER2212-222KL     | 2.2                          | 1.0              | 1.2  | 32                   |                        | 43       | 45.4     | 46.3     | 22.8                    | 30.4      |
| PER2214-332KL     | 3.3                          | 1.3              | 1.5  | 29                   |                        | 34       | 36.8     | 37.6     | 22.2                    | 28.8      |
| PER2210-472KL     | 4.7                          | 2.15             | 2.4  | 23                   |                        | 22       | 24.2     | 25.1     | 17.9                    | 25.2      |
| PER2210-682KL     | 6.8                          | 2.7              | 2.9  | 19                   |                        | 19.1     | 22.5     | 23.9     | 16.1                    | 24.1      |
| PER2211-103KL     | 10                           | 3.7              | 4.0  | 16                   |                        | 18.3     | 20.5     | 21.7     | 13.3                    | 22.2      |
| PER2212-153KL     | 15                           | 4.65             | 5.05 | 14                   |                        | 15.3     | 17.7     | 18.6     | 11.2                    | 20.5      |
| PER2214-203KL     | 20                           | 5.7              | 6.4  | 12                   |                        | 14.3     | 16.2     | 16.8     | 10.5                    | 19.2      |
| PER2214-293KL     | 29                           | 6.65             | 7.2  | 11                   |                        | 11.0     | 13.2     | 13.7     | 9.8                     | 15.1      |
| PER2214-353KL     | 35                           | 6.65             | 7.2  | 10                   |                        | 9.3      | 10.8     | 11.3     | 9.8                     | 15.1      |

## Remark

- Inductance is measured with a LCR meter Agilent 4284A or equivalent.  
Test frequency at 100kHz
- DC resistance is measured with Keithley 580 Milliohm Meter, or equivalent.  
Reference ambient temperature 25°C
- SRF measured using an Agilent 4395A network analyzer and an Agilent 16193A test fixture.
- DC current at 25°C that causes the specified Inductance drop from its value without current.
- Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.
- Electrical specifications at 25°C

## 备注

- 电感量测试采用 Agilent 4284A 数字电桥或同等仪器;  
测试频率 100KHz
- 直流电阻测试采用 Keithley 580 毫欧表或同等仪器;  
环境温度 25° C
- SRF 使用 Agilent 4395A 网络分析仪和 Agilent 16193A 测试夹具测量。
- 直流电流在 25° C, 加载导致指定电感从没有电流的值下降。
- 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。
- 25° C 时的电气规格

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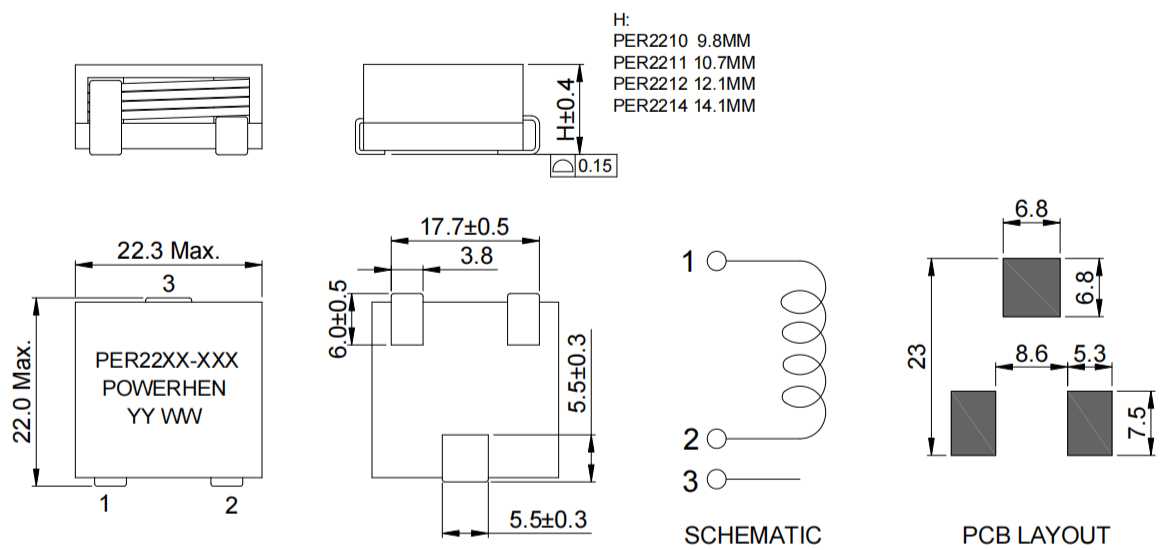
E-Mail: sales@powerhen.com

\*The specifications of the data measured in the laboratory, different conditions of use, please refer to the actual.

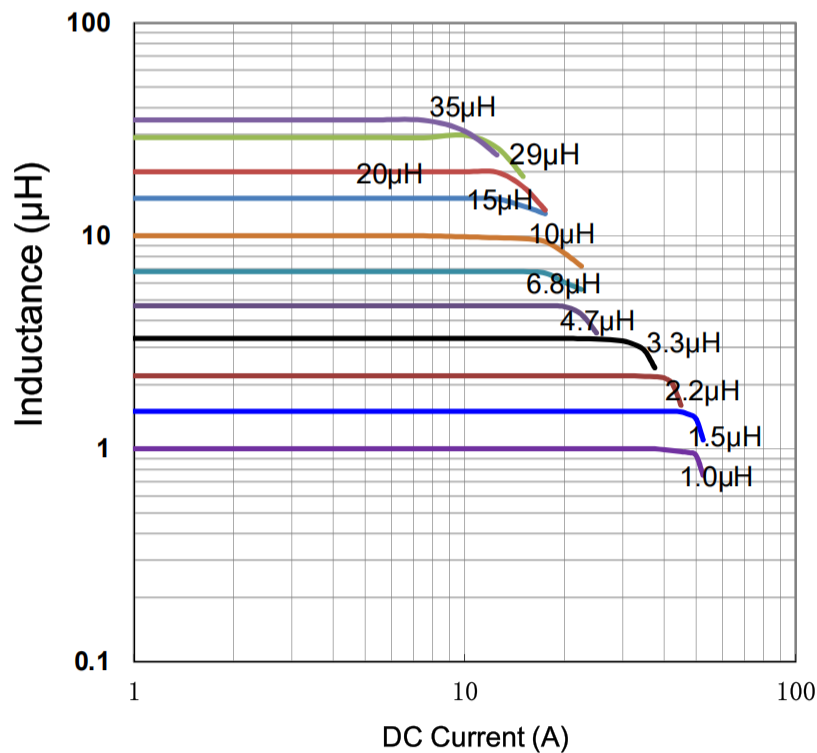
The specifications are subject to change, without prior notice.

\*Without approval, this product can not be used for medical military or other high-risk areas

Dimensions 结构尺寸

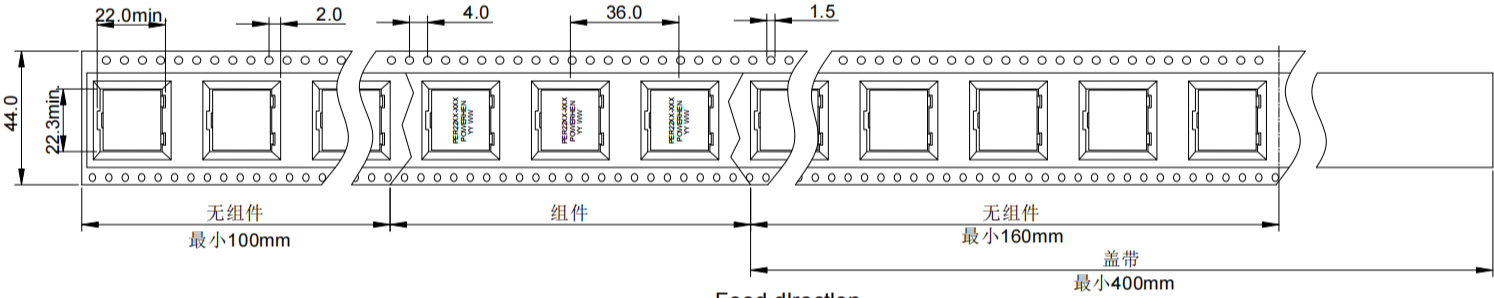
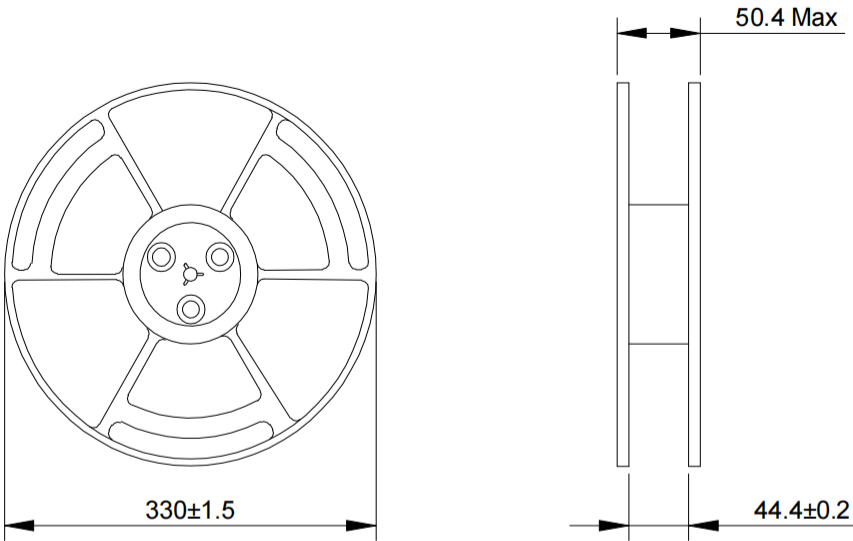


Electrical Characteristic Curve 电气特性曲线

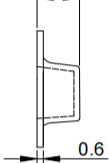


■Packaging Specification - Reel: [mm]

包装规格 - 载带包装: [mm]

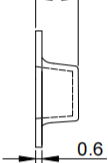


12.5±0.5



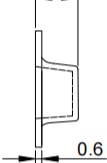
PER2210

12.5±0.5



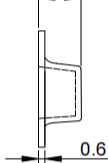
PER2211

13.9±0.5



PER2212

15.9±0.5



PER2214

重量: 15.7~16.3g/PCS  
包装数量: 130PCS/Reel

重量: 17.6~18.1g/PCS  
包装数量: 130PCS/Reel

重量: 19.8~19.7g/PCS  
包装数量: 115PCS/Reel

重量: 22.5~23.9g/PCS  
包装数量: 100PCS/Reel