芯芒微电子

XINMANG MICROELECTRONICS

POWERHEN

Electronics

# 产品规格书

## PH20

贴片大电流功率电感


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样品申请 · 替代选型 · 批量报价，欢迎来函来电

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

# ■PH20 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 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
- 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 μH | 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 |
|---|---|---|---|---|---|---|---|---|---|
| **PH20-701 KL** | 0.7±10% | 0.83 | 0.92 | 65 | 70 | 72 | 74 | 25 | 32 |
| **PH20-142 KL** | 1.4±10% | 1.15 | 1.27 | 52 | 57 | 59 | 60 | 23 | 31.5 |
| **PH20-222 KL** | 2.2±10% | 1.5 | 1.65 | 32 | 49 | 50 | 54 | 22 | 28 |
| **PH20-312 KL** | 3.1±10% | 2.25 | 2.3 | 29 | 42 | 43 | 44.5 | 19 | 26 |
| **PH20-422 KL** | 4.2±10% | 3.04 | 3.35 | 24 | 34 | 35.5 | 37.8 | 17.8 | 24 |
| **PH20-552 KL** | 5.5±10% | 4.0 | 4.4 | 21 | 28 | 30.6 | 32 | 16.8 | 22 |
| **PH20-702 KL** | 7.0±10% | 5.6 | 6.18 | 18 | 26 | 27.8 | 29 | 15.5 | 21 |
| **PH20-862 KL** | 8.6±10% | 7.2 | 7.91 | 14 | 22 | 23 | 24.5 | 12.8 | 17 |
| **PH20-103 KL** | 10±10% | 7.9 | 8.76 | 13 | 21 | 22.5 | 22.8 | 11 | 16 |
| **PH20-153 KL** | 15±10% | 8.7 | 9.57 | 12.8 | 19 | 20 | 21 | 10 | 14 |
| **PH20-223 KL** | 22±10% | 10.6 | 11.72 | 12.5 | 13 | 13.8 | 14.2 | 9 | 12.5 |
| **PH20-333 KL** | 33±10% | 11.4 | 12.55 | 12 | 9 | 10 | 10.8 | 8 | 12 |
| **PH20-473 KL** | 47±10% | 12.2 | 13.42 | 10 | 6.8 | 7.2 | 8.4 | 8 | 12 |

**Remark**

①Inductance is measured with a LCR meter Agilent 4284A or equivalent. Test frequency at 100kHz

②DC 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 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。

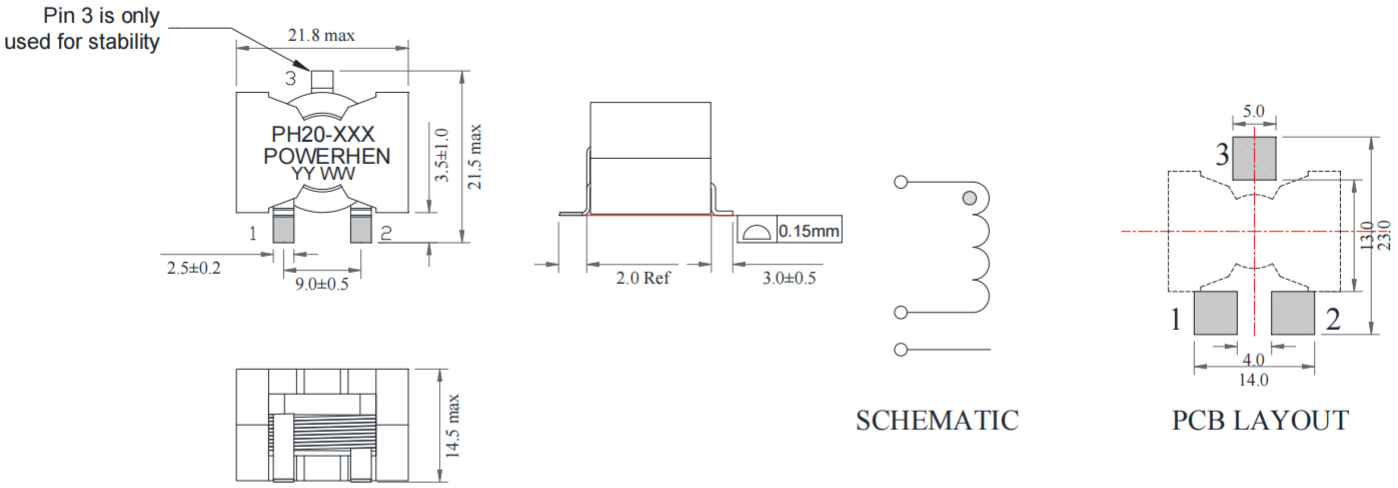
④直流电流在 25° C，加载导致指定电感从没有电流的值下降。

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

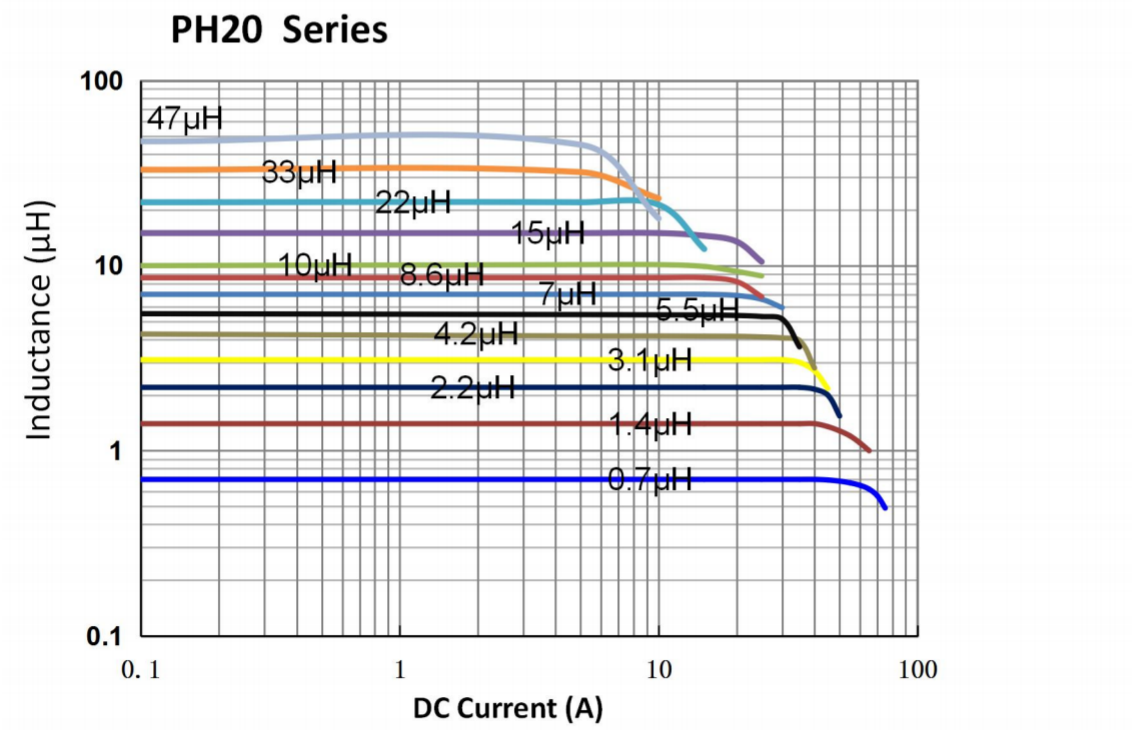
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## ■Dimensions 结构尺寸




## ■PH20

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

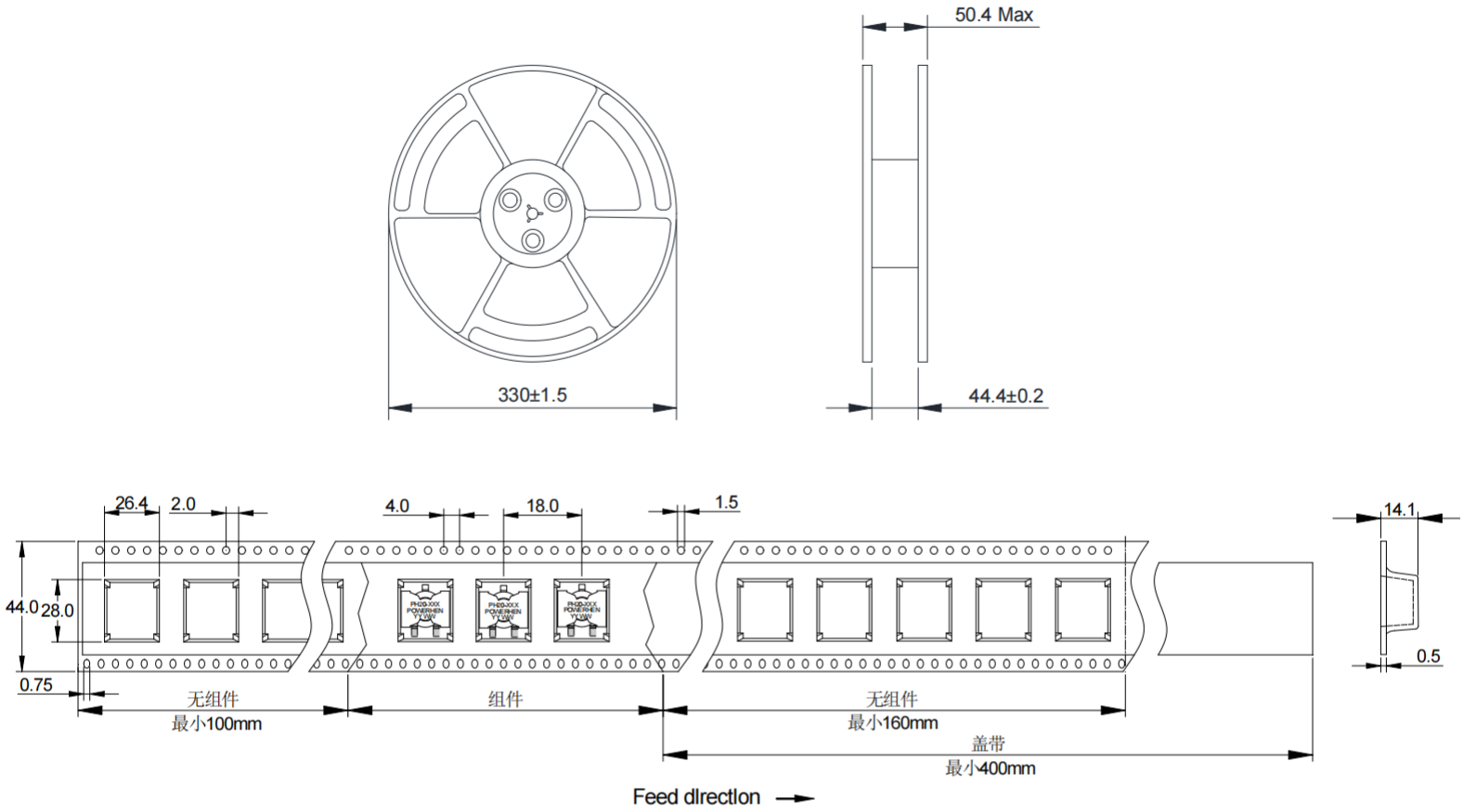




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## ■Packaging Specification - Tape and Reel: [mm]

包装规格 - 卷带包装：[mm]




Weight 重量: 14.24~15.72g/PCS

Packaging 包装数量: 100 PCS/Reel