

## Planar Inductors

## ■ PH32A Series

## Features 特点

- Low DCR to minimize losses and reduce temperature rise  
低 DCR 可最大限度地减少损耗并降低温升
- Low radiation noise by magnetically shielded construction  
闭合磁路封装, 低辐射
- Operating temperature:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ . 工作温度:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
- Tray packaging:  $-40^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$  托盘包装:  $-40^{\circ}\text{C}$  至  $+80^{\circ}\text{C}$
- 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  $<30^{\circ}\text{C}$  时的无限车间寿命 / 85% 相对湿度)
- Standard terminal is stripped and tinned for through-hole mounting but other terminal configurations such as bare copper, and press fit pin are available upon request Hot dipped Sn plating provides low risk of whisker growth  
标准端子经过剥皮和镀锡以用于通孔安装, 但可根据要求提供其他端子配置, 例如裸铜、和压扁引脚 热浸镀锡可降低晶须生长的风险



## 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	① Inductance $\mu\text{H}$ $\pm 10\%$	② DCR 直流电阻 $\text{m}\Omega$		③ SRF 自谐频率 MHz	④ Isat 饱和电流 A typical			⑤ Irms 温升电流 A typical	
		typ	max.		typical	10% drop	20% drop	30% drop	20°C rise
PH32A-102KE	1.0	0.21	0.25	53	111	117	120	56	96
PH32A-152KE	1.5	0.31	0.35	37	104	111	112	56	96
PH32A-222KE	2.2	0.54	0.6	28	91	103	105	47	81
PH32A-332KE	3.3	0.85	0.95	22	71	81	82	42	70
PH32A-602KE	6	1.15	1.3	18	51	54	55	38	50
PH32A-103KE	10	1.7	1.9	12	42.8	44	45	30	42

## 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

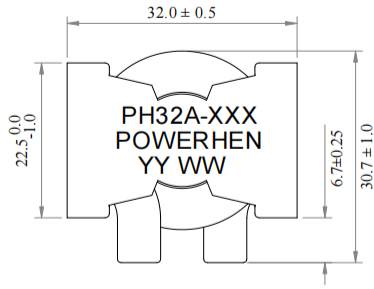
ShenZhen Powerhen Electronic Co.,Ltd

Addr: Floor 3, Building 2, Shenliang Automotive Electronic Industrial Park, Guanlan Town, Shenzhen

Tel: 0755-23570708

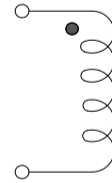
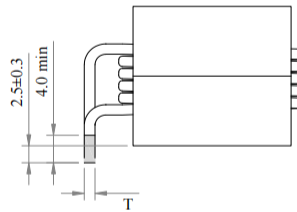
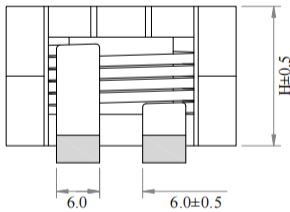
E-Mail: sales@powerhen.com

Dimensions 结构尺寸



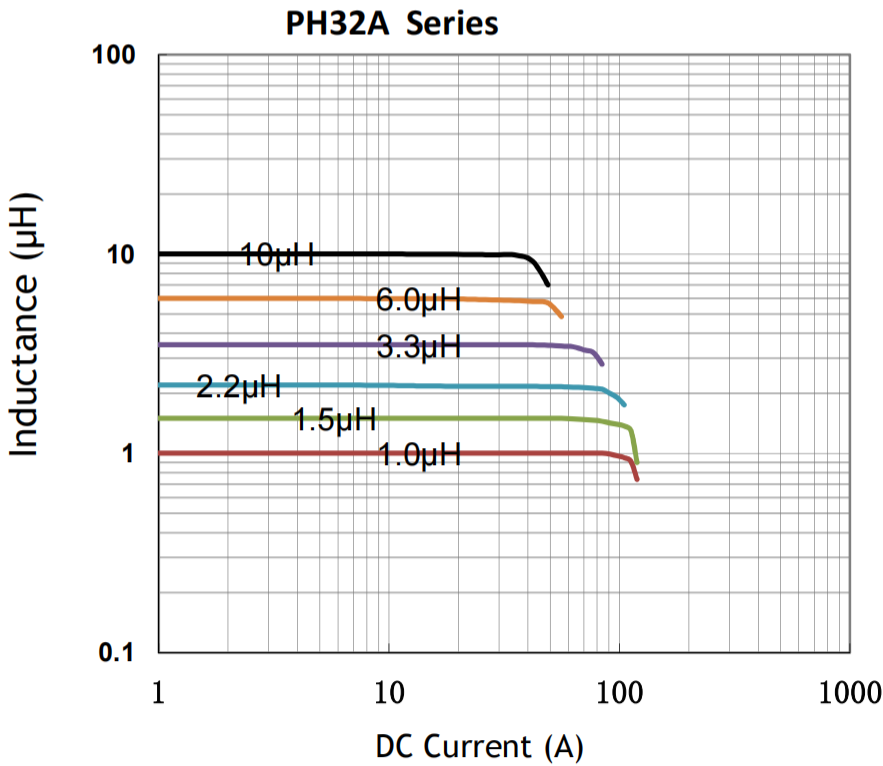
H尺寸:  
 PH32A-102 15.4mm  
 PH32A-152~103 18.0mm

T尺寸:  
 PH32A-102 2.0mm  
 PH32A-152 2.0mm  
 PH32A-222 1.5mm  
 PH32A-332 1.2mm  
 PH32A-602 1.0mm  
 PH32A-103 0.8mm



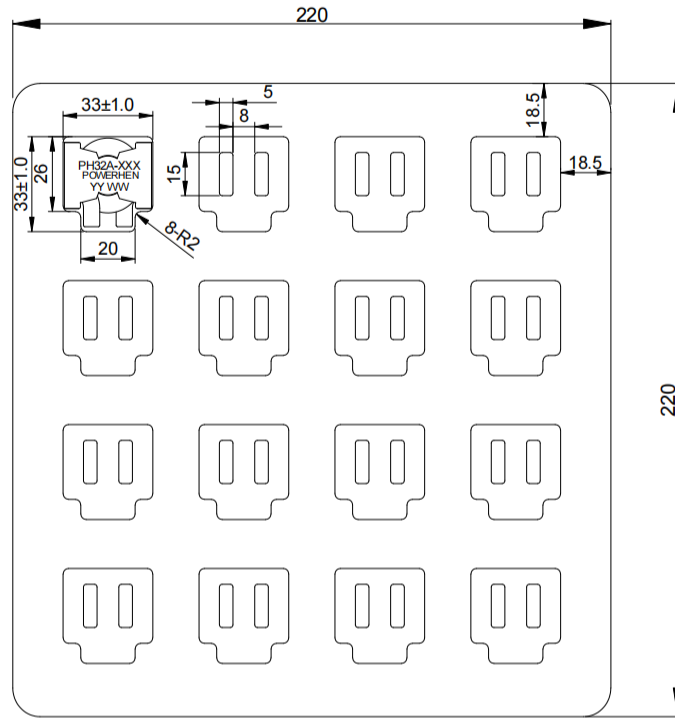
SCHEMATIC

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: 47.9~62.5g/PCS  
Packaging 包装数量: 16 PCS/盘