

## 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
- Low loss ferrite cores provide flat L vs I  
低损耗铁氧体磁芯提供平坦的 L 与 I
- Operating temperature : -40°C~+125°C.  
工作温度: -40°C~+125°C
- Through-hole (TH) mounting for rugged board attachment  
通孔 (TH) 安装, 用于坚固的电路板连接
- 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 料号	Inductance① 电感量 μH ± 10%	DCR ② 直流电阻 mΩ		SRF③ 自谐振频率 MHz	Isat④ 饱和电流 A typ				Irms⑤ 温升电流 A max.	
		Typ	Max.		typical	10% drop	20% drop	30% drop	20°C rise	40°C rise
PD3521-152KE	1.5	0.35	0.4	37	120	134	138	72	89	
PD3521-222KE	2.2	0.35	0.4	35	104	117	120	72	89	
PD3521-332KE	3.3	0.35	0.4	25	82	89	92	72	89	

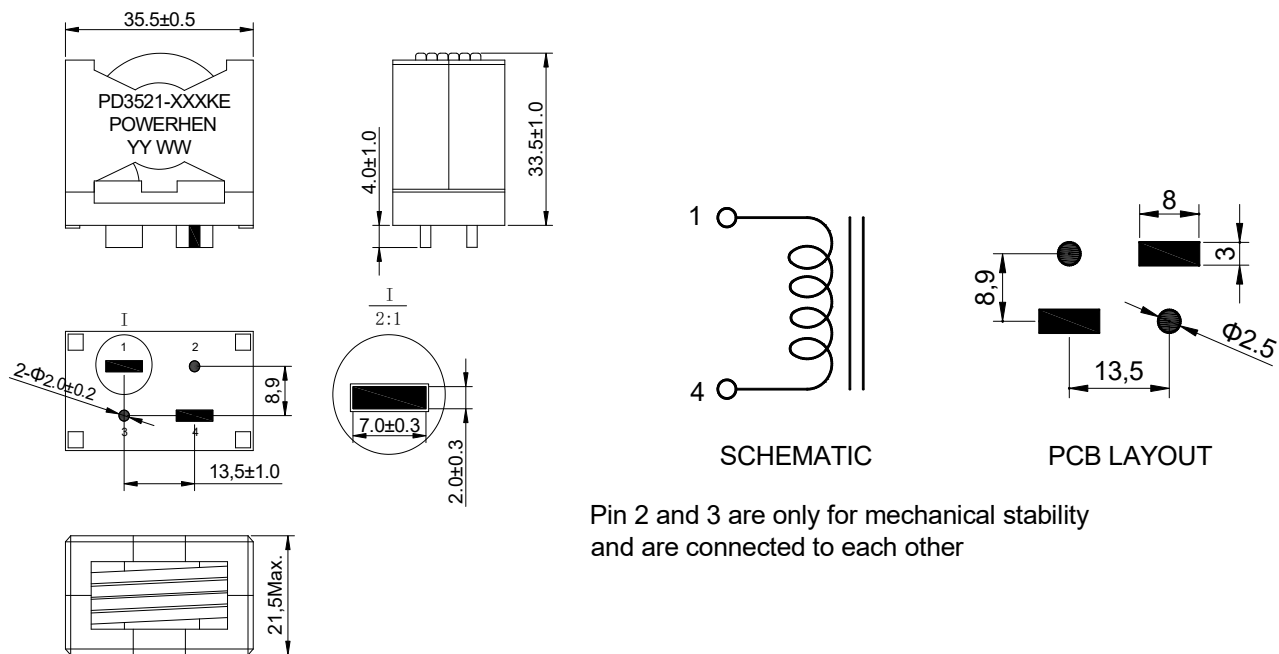
### Remark

- 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

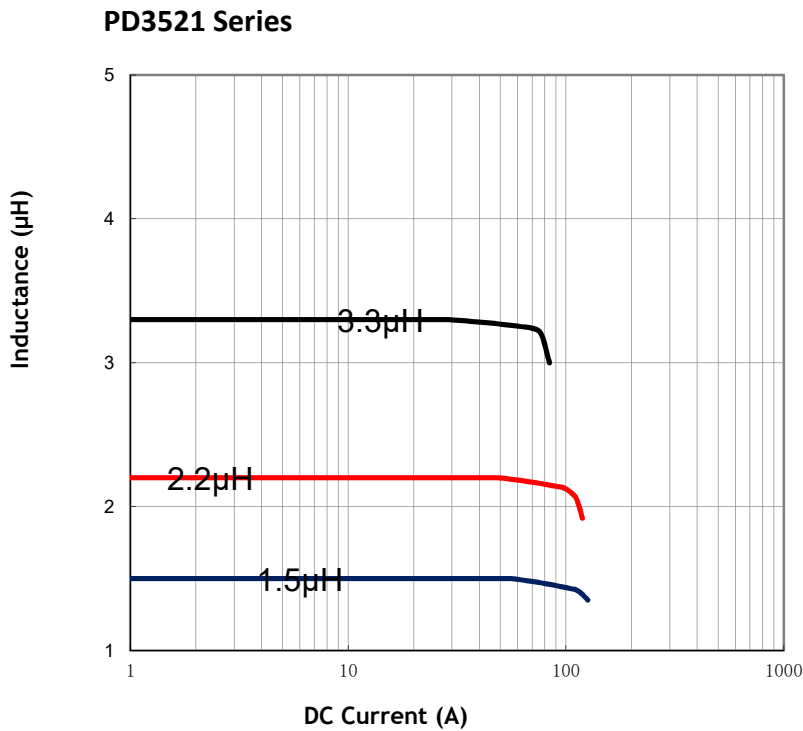
- 电感量测试采用 Agilent 4284A 数字电桥或同等仪器;  
测试频率 100KHz
- 直流电阻测试采用 Keithley 580 毫欧表或同等仪器;  
环境温度 25° C
- SRF 使用 Agilent 4395A 网络分析仪和 Agilent 16193A 测试夹具测量。
- 直流电流在 25° C, 加载导致指定电感从没有电流的值下降。
- 导致指定温度从 25° C 环境温度上升的电流。 此信息仅供参考, 不代表绝对最大额定值。
- 25° C 时的电气规格

Dimensions 结构尺寸



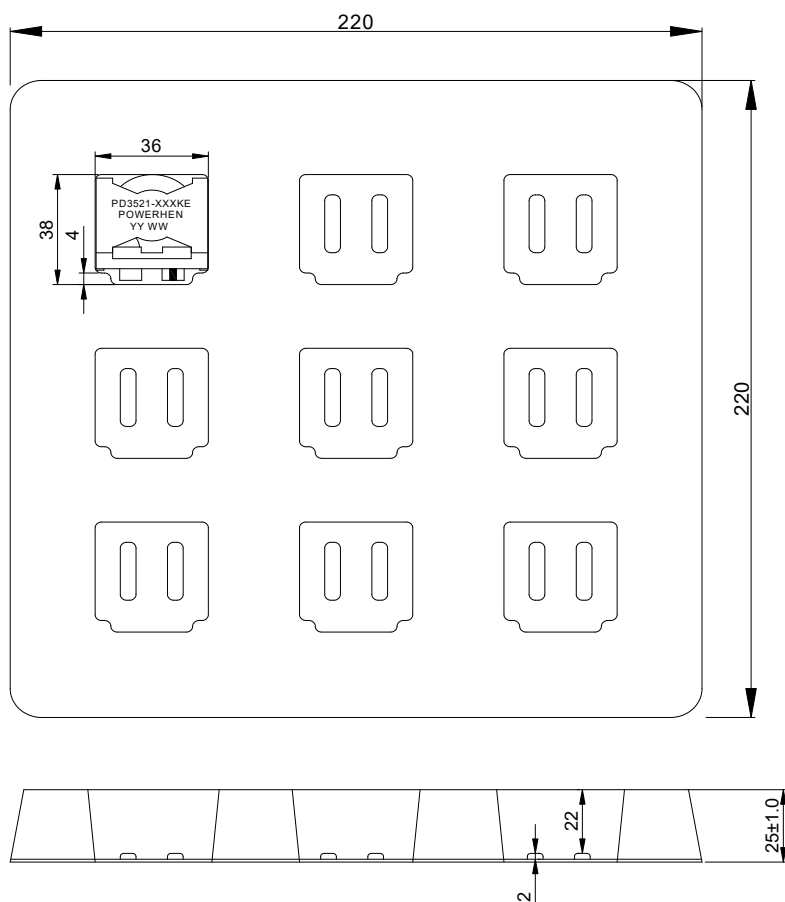
Pin 2 and 3 are only for mechanical stability and are connected to each other

Electrical Characteristic Curve 电气特性曲线



■ Packaging Specification - tray: [mm]

包装规格 - 托盘包装: [mm]



Weight 重量: 89.2g/PCS  
Packaging 包装数量: 9 PCS/盘