

Features 特点

- provide extremely low DC and AC resistance.
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 / 85% 相对湿度时无限制)



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 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
PD3533-223KE	22	8.0	8.8	8.15	45	48.5	49.4	17	23.2
PD3533-333KE	33	9.0	9.9	6.08	36	38.4	39.2	16	22
PD3533-473KE	47	11.8	13.0	5.1	30	31.8	32.3	13.8	19.3
PD3533-653KE	65	13.2	14.5	4.28	23	25.9	26.6	12.1	17.2

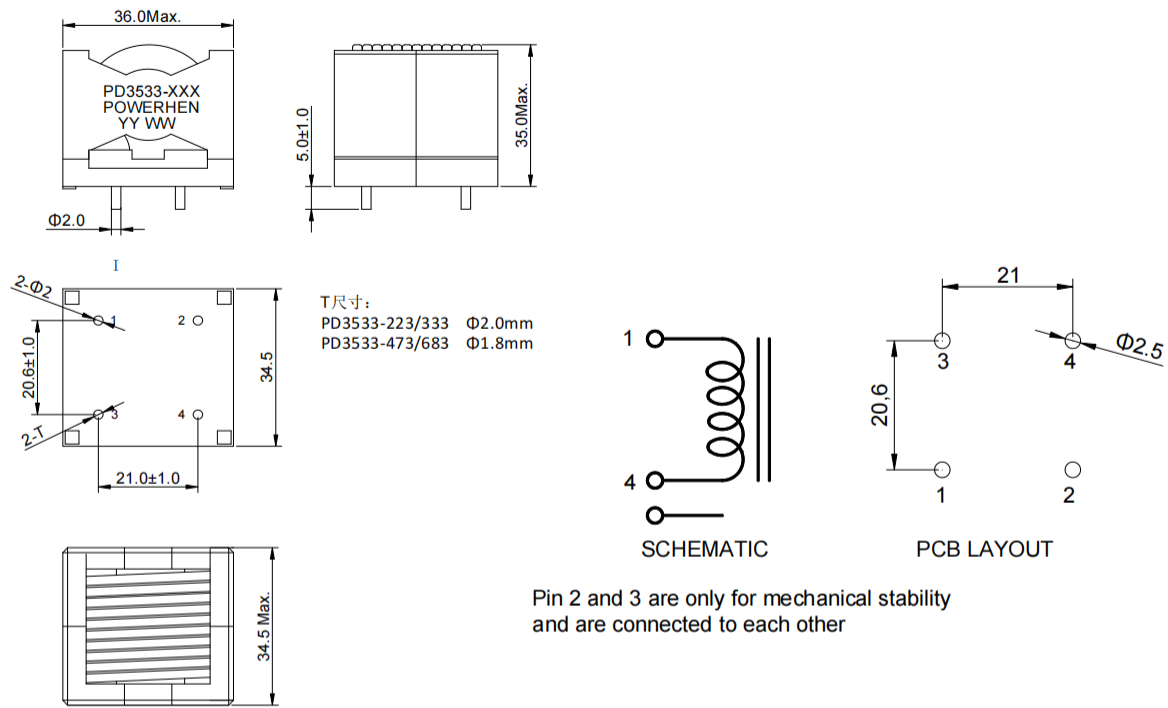
Remark

- ① Inductance is measured with a LCR meter Agilent 4284A or equivalent.
Test frequency at 100kHz
- ② DC 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.
- ④ DC current at 25°C that causes the specified Inductance drop from its value without current.
- ⑤ Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.
- ⑥ Electrical specifications at 25°C

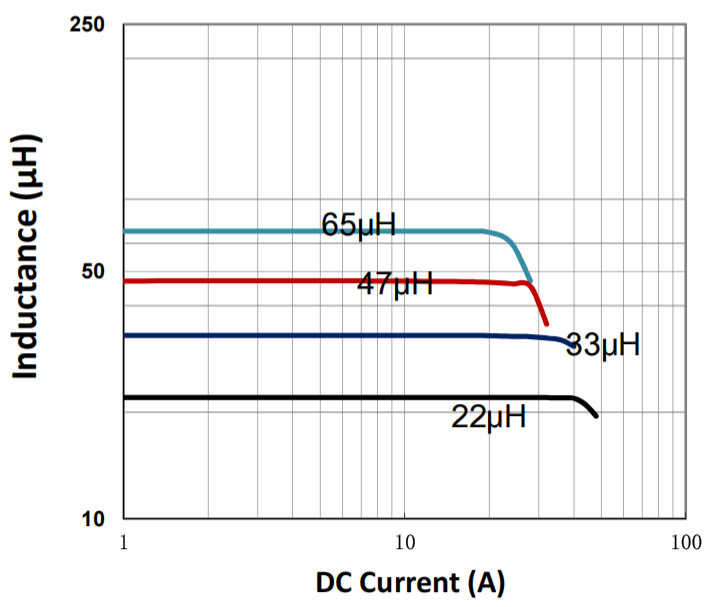
备注

- 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
- 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° 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。
- ⑥ 25° C 时的电气规格

Dimensions 结构尺寸

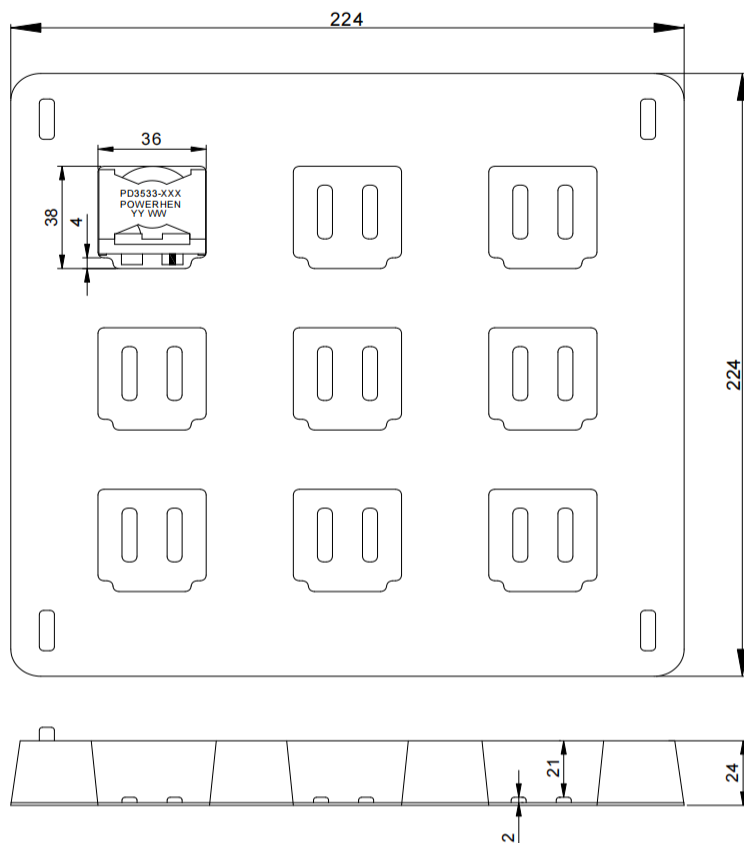


Electrical Characteristic Curve 电气特性曲线



■ Packaging Specification - tray: [mm]

包装规格 - 托盘包装: [mm]



Weight 重量: 115g/PCS
Packaging 包装数量: 9 PCS/盘