

Leaded Inductors for Class D

插件型数字功放电感

■ PD31 Series

Features 特点

- The optimal design realizes high quality sound and low distortion.
高品质、低失真最佳设计
- 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 : $-40^{\circ}\text{C}\sim+125^{\circ}\text{C}$.
工作温度: $-40^{\circ}\text{C}\sim+125^{\circ}\text{C}$



■ Applications 应用

- Suitable as choke for digital amp. Car audio, LCD and PDP TV, 5.1ch Home theater, etc.
适用于数字功放扼流。如汽车音响，LCD 电视和 PDP 电视，5.1 声道家庭影院等

Electrical characteristics 电气特性

Part number 料号	Inductance 电感量 $\mu\text{H} \pm 10\%$	DCR 直流电阻 $\text{m}\Omega$		SRF 自谐频率 MHz	Isat 饱和电流 A typical.			I _{rms} 温升电流 A typical	
		typ	max.		typical	10% drop	20% drop	30% drop	20°C rise 40°C rise
PD31 -103KE	10	5.2	6.3	13		58	64	66.9	10.5 13.0
PD31 -123KE	12	5.2	6.3	11.8		55	60.8	61.2	10.5 13.0
PD31 -153KE	15	5.8	6.9	11		41	52.8	53.2	10.0 12.5
PD31 -183KE	18	5.2	6.3	10		38	40.5	40.8	10.5 13.0
PD31 -223KE	22	5.8	6.9	9		33	35	37.5	10.0 12.5
PD31 -333KE	33	7.4	8.9	7		25	27.5	27.8	8.0 10.0

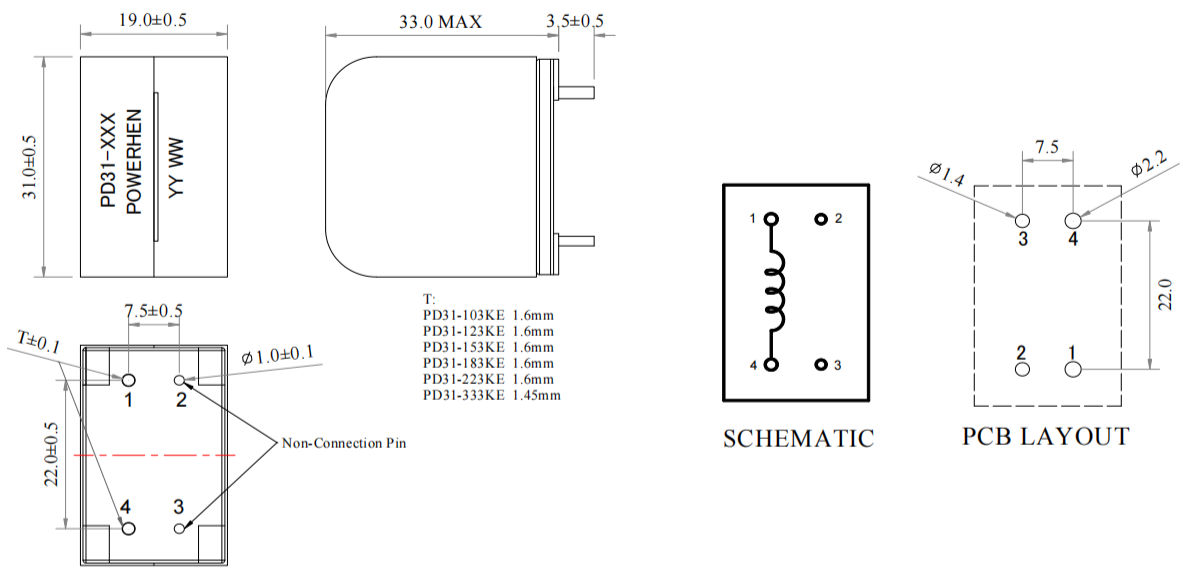
Remark

- 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

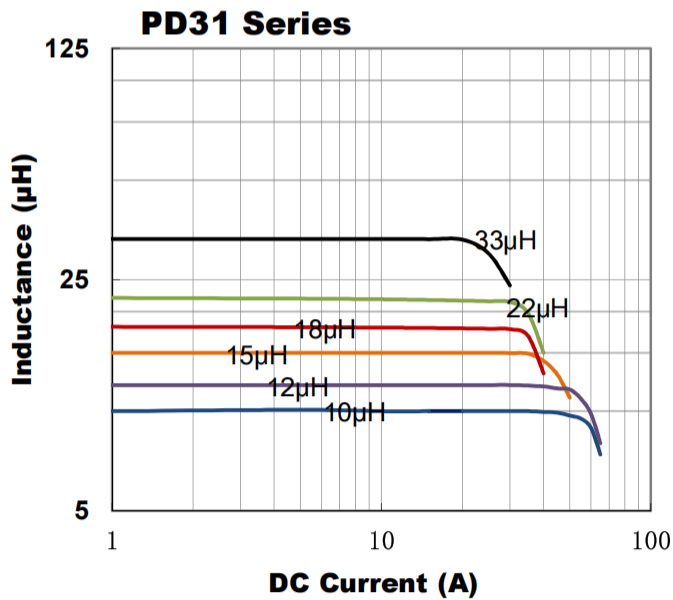
备注

- 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

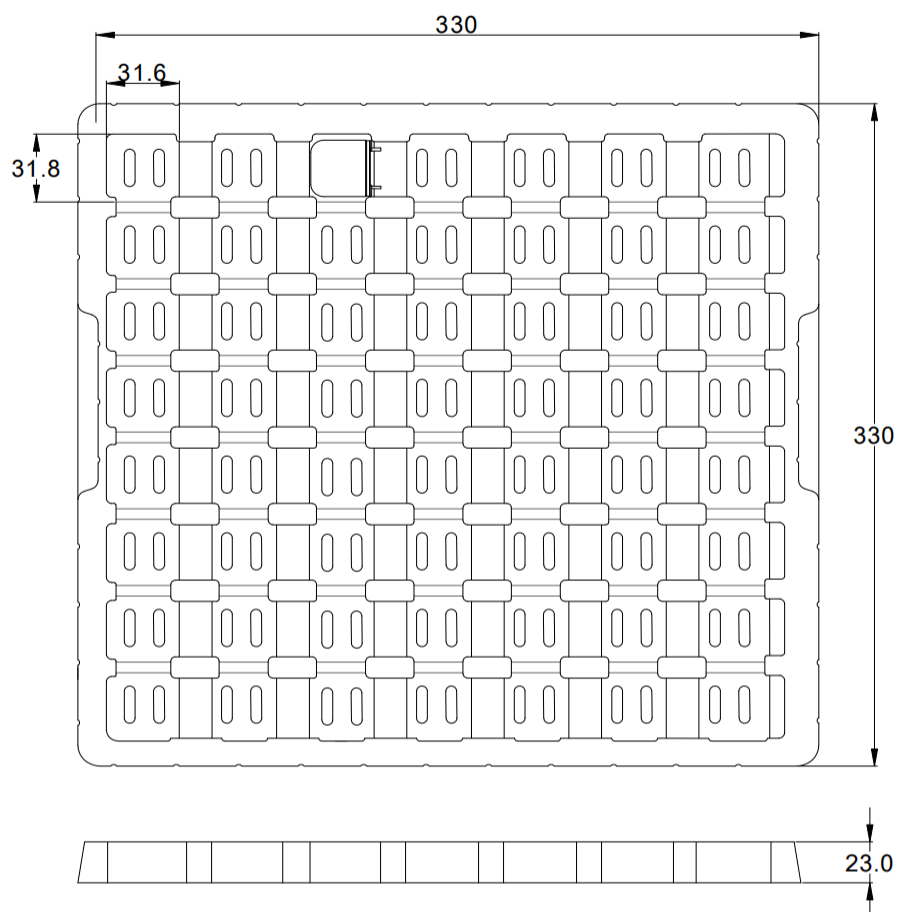


■ Electrical Characteristic Curve 电气特性曲线



■ Packaging Specification - tray: [mm]

包装规格 - 托盘包装: [mm]



Weight 重量: 71.7g/PCS
Packaging 包装数量: 56 PCS/盘