芯芒微电子

XINMANG MICROELECTRONICS

POWERHEN

Electronics

产品规格书

PD31

D 类功放电感

联系我们 / CONTACT

电话：0755-28088656

手机 / 微信：13823685284

地址：深圳市龙华新区观澜深粮汽车电子特色工业园A2栋3楼

样品申请 · 替代选型 · 批量报价，欢迎来函来电

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.
  高音质、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℃~+125℃.
  工作温度：-40℃~+125℃



■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 μH±10%	DCR 直流电阻 mΩ typ	DCR 直流电阻 mΩ max.	SRF 自谐频率 MHz typical	Isat 饱和电流 A typical. 10% drop	Isat 饱和电流 A typical. 20% drop	Isat 饱和电流 A typical. 30% drop	Irms 温升电流 A typical 20℃rise	Irms 温升电流 A typical 40℃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

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

③SRF 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。

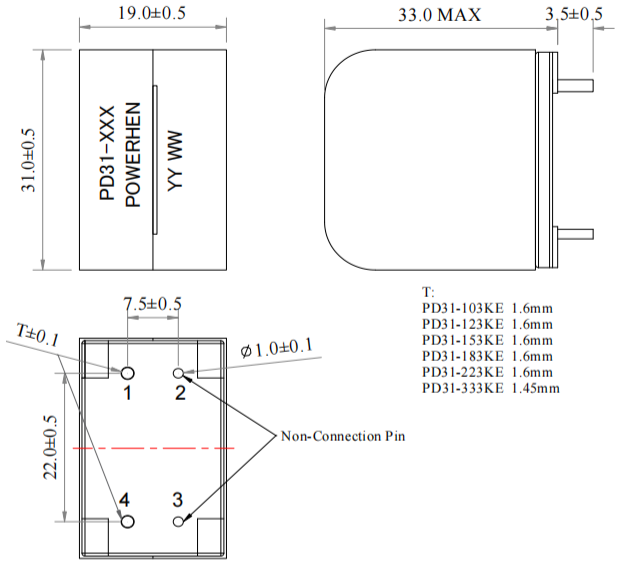
④直流电流在 25° C，加载导致指定电感从没有电流的值下降。

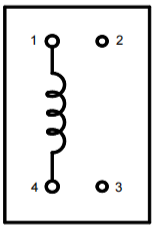
⑤导致指定温度从 25° C 环境温度上升的电流。 此信息仅供参考，不代表绝对最大额定值。

⑥25° C 时的电气规格

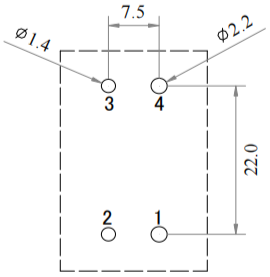
ShenZhen Powerhen Electronic Co.,Ltd
Addr:Floor 3, Building 2, Shenliang Automotive Electronic Industrial Park, Guanlan Town, Shenzhen
Tel:0755-23570708　　E-Mail:sales@powerhen.com

■Dimensions 结构尺寸



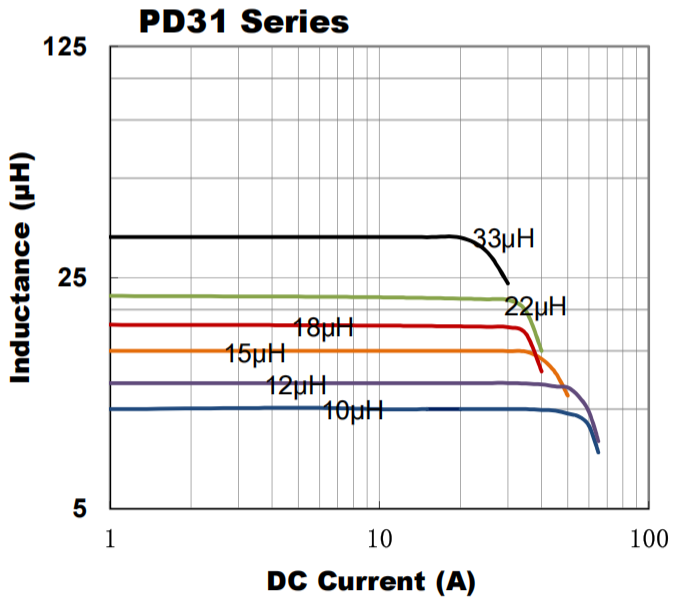


SCHEMATIC



PCB LAYOUT

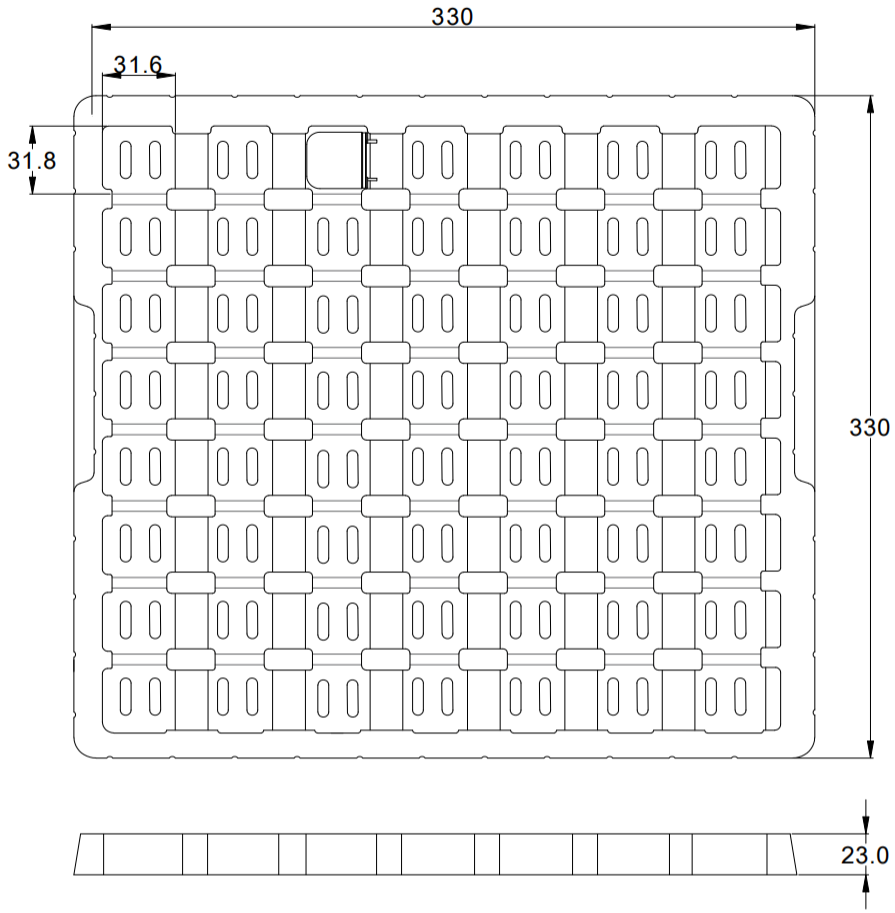
■Electrical Characteristic Curve 电气特性曲线



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■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

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