芯芒微电子

XINMANG MICROELECTRONICS

POWERHEN

Electronics

# 产品规格书

# PD14AC

D 类功放电感


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# Leaded Inductors for Class D　　插件型数字功放电感

## ■PD14AC　Series

### Features 特点

- The optimal design realizes high quality sound and low distortion.
  高音质、低失真最佳设计
- Compact size using flat wire.
  扁平线小尺寸封装
- Small compact, and DIP type.
  小体积，直插类型
- 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 ① 电感量 μH±10% | DCR ② 直流电阻 mΩ typ | DCR ② 直流电阻 mΩ max. | SRF ③ 自谐频率 MHz typical | Isat ④ 直流饱和电流 A typica 10% drop | Isat ④ 直流饱和电流 A typica 20% drop | Isat ④ 直流饱和电流 A typica 30% drop | Irms ⑤ 温升电流 A typical 20℃ rise | Irms ⑤ 温升电流 A typical 40℃ rise |
|---|---|---|---|---|---|---|---|---|---|
| PD14AC-502KE | 5 | 4.9 | 5.4 | 18 | 20.5 | 22 | 22.8 | 5.8 | 7.5 |
| PD14AC-103KE | 10 | 9.7 | 10.7 | 13 | 15.2 | 15.8 | 16.3 | 4.7 | 6.0 |
| PD14ACL-103KE | 10 | 4.9 | 5.4 | 10 | 9.65 | 10.5 | 10.9 | 5.8 | 7.5 |

**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。

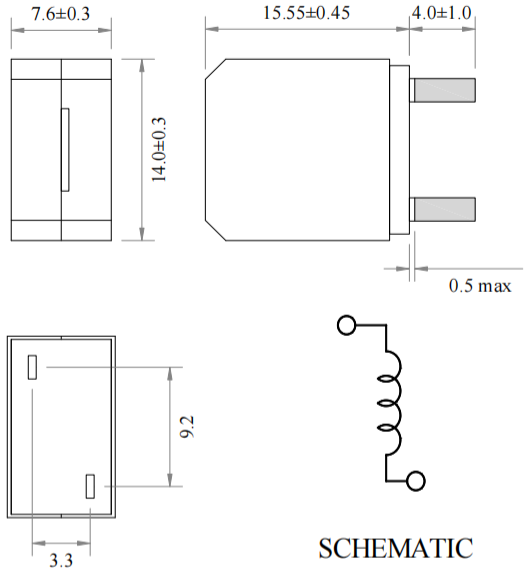
④直流电流在 25° C，加载导致指定电感从没有电流的值下降。

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。

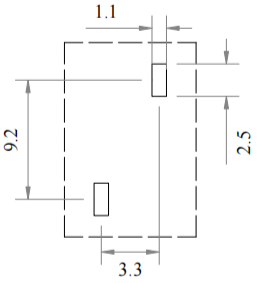
⑥25° C 时的电气规格

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**Dimensions** 结构尺寸

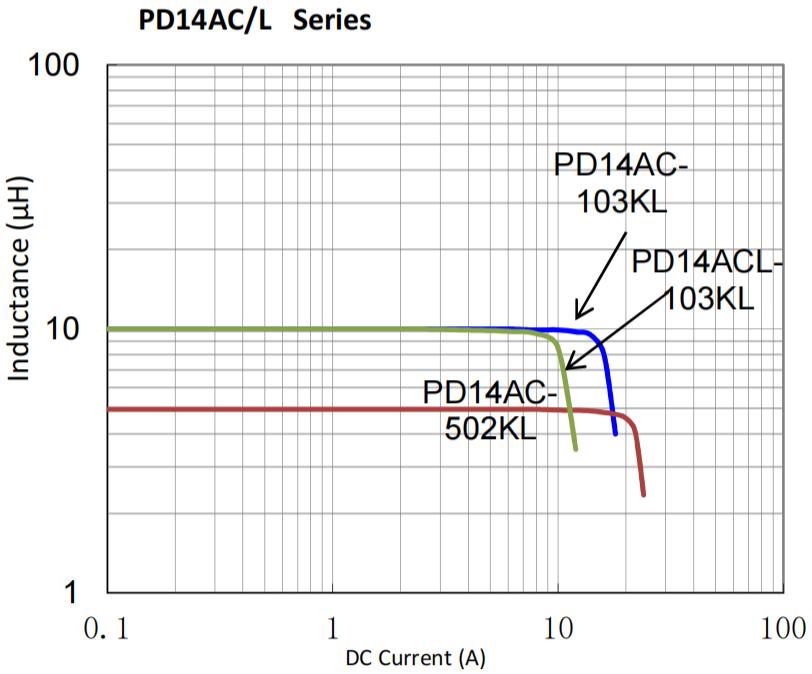



SCHEMATIC




PCB LAYOUT

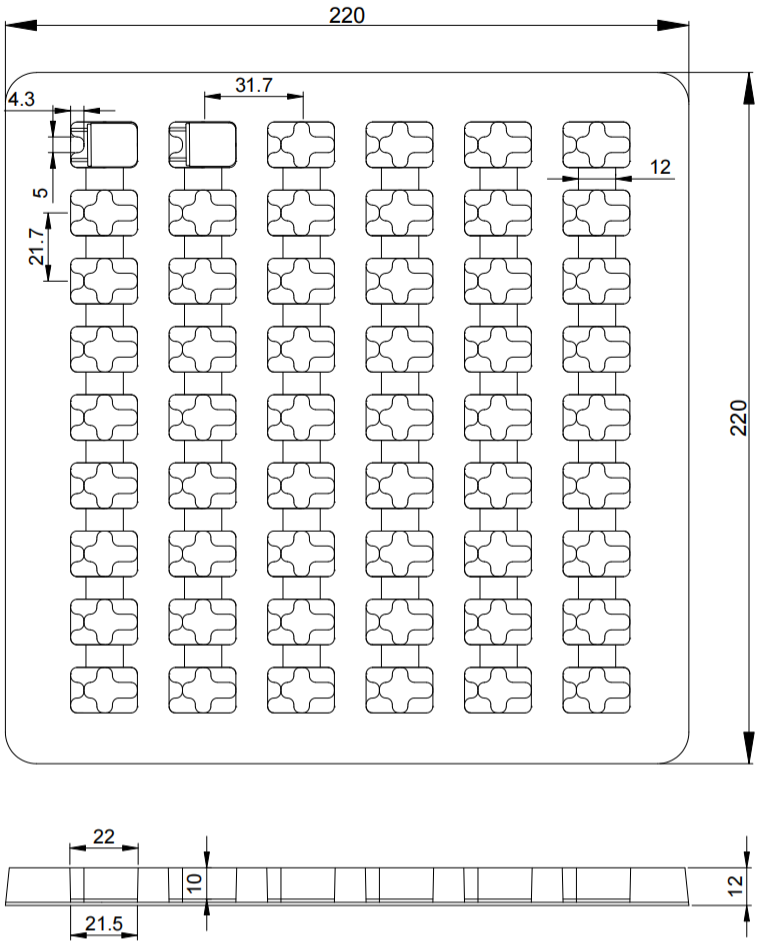
**Electrical Characteristic Curve** 电气特性曲线




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## ■Packaging Specification - tray: [mm]

包装规格 – 托盘包装：[mm]




Weight 重量: 6.89g/PCS

Packaging 包装数量: 54PCS/盘

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