

## Leaded Inductors for Class D

## 插件型数字功放电感

## ■ PD23B Series

## Features 特点

- The optimal design realizes high quality sound and low distortion.  
高音质、低失真最佳设计
- 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<br>料号 | Inductance<br>电感量<br>$\mu\text{H} \pm 10\%$ | DCR<br>直流电阻 mΩ |      | SRF<br>自谐频率<br>MHz |          | Isat<br>饱和电流<br>A typical |          |           | Irms<br>温升电流<br>A typical |  |
|-------------------|---------------------------------------------|----------------|------|--------------------|----------|---------------------------|----------|-----------|---------------------------|--|
|                   |                                             | typ            | max. | typical            | 10% drop | 20% drop                  | 30% drop | 20°C rise | 40°C rise                 |  |
| PD23B-103KE       | 10                                          | 6.7            | 8.3  | 15                 | 37.4     | 39.5                      | 40.2     | 7.5       | 9.1                       |  |
| PD23B-123KE       | 12                                          | 6.7            | 8.3  | 14                 | 32       | 34                        | 34.6     | 7.5       | 9.1                       |  |
| PD23B-153KE       | 15                                          | 7.3            | 9.1  | 13                 | 28.5     | 30.2                      | 31.2     | 8.0       | 8.7                       |  |
| PD23B-183KE       | 18                                          | 6.7            | 8.3  | 10                 | 21       | 23.8                      | 26       | 7.5       | 9.1                       |  |
| PD23B-223KE       | 22                                          | 7.3            | 9.1  | 9                  | 19       | 22                        | 23.1     | 8.0       | 8.7                       |  |

## 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 DC current at 25°C that causes the specified Inductance drop from its value without current.
- ④ Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.
- ⑤ Electrical specifications at 25°C

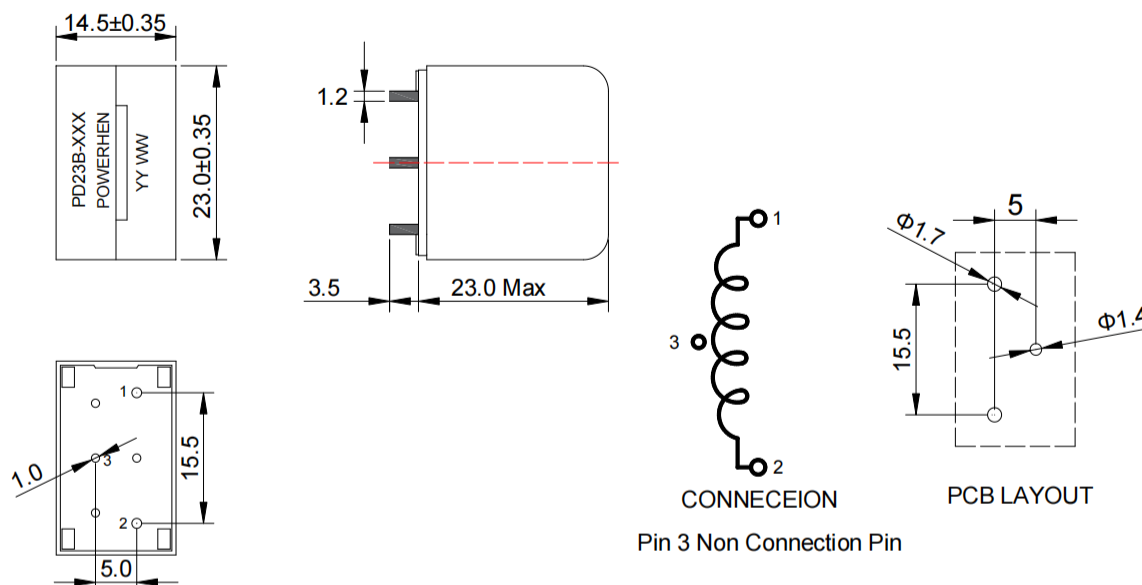
## 备注

- 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 直流电流在 25° C，加载导致指定电感从没有电流的值下降。
- ④ 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。
- ⑤ 25° C 时的电气规格

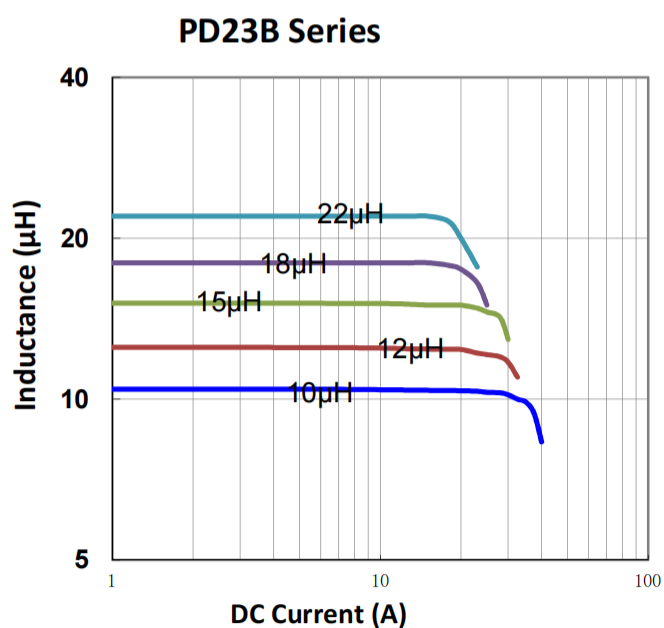
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## Dimensions 结构尺寸

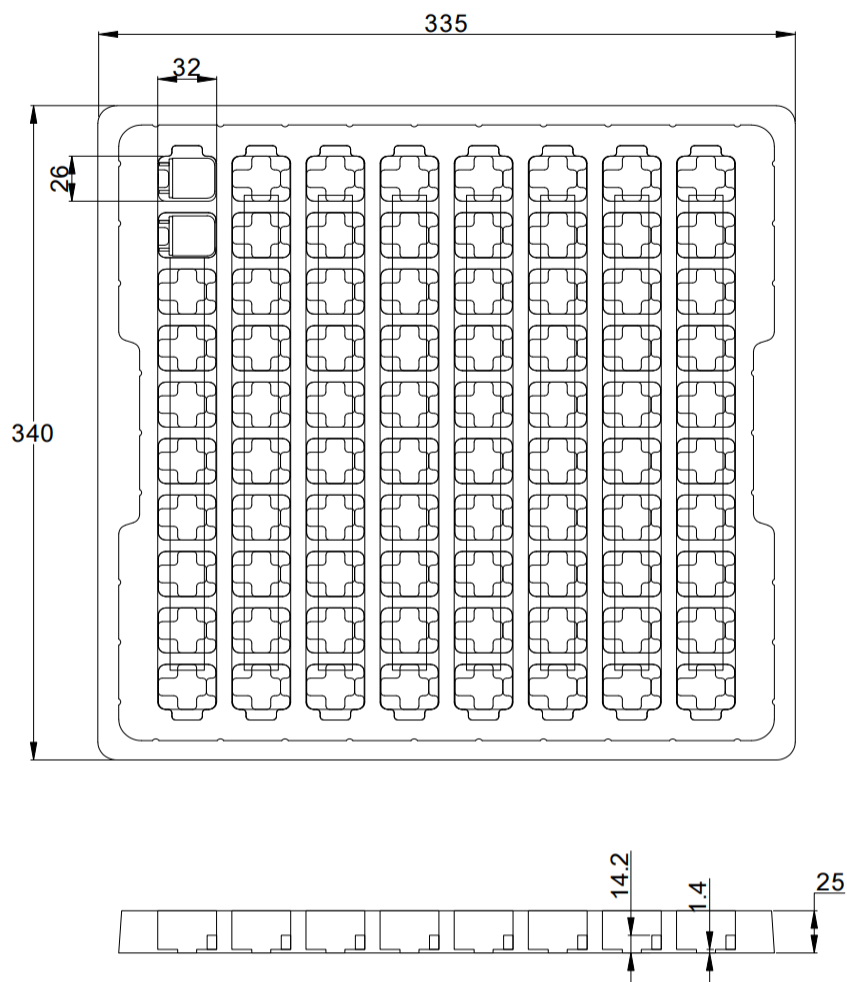


## Electrical Characteristic Curve 电气性能曲线



■Packaging Specification - tray: [mm]

包装规格 - 托盘包装: [mm]



Weight 重量: 28.3~29.15g/PCS  
Packaging 包装数量: 80 PCS/盘