芯芒微电子

XINMANG MICROELECTRONICS

POWERHEN

Electronics

产品规格书

PD2923B

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

PD2923B **HIGH CURRENT POWER INDUCTOR** 大电流功率电感

Features 特点



- Flat wire windings provide extremely low DC and AC resistance.
  扁平绕组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℃~+125℃.
  工作温度：-40℃~+125℃
- 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（在车间 <30° C/ 85%相对湿度 时的无限制）

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 Typ	DCR ② 直流电阻 mΩ Max.	SRF③ 自谐频谐 MHz typical	Isat④ 饱和电流 A typ 10% drop	Isat④ 饱和电流 A typ 20% drop	Isat④ 饱和电流 A typ 30% drop	Irms⑤ 温升电流 A max. 20℃ rise	Irms⑤ 温升电流 A max. 40℃ rise
PD2923B-332KE	3.3	2.2	2.6	40	95	104	108	20	28
PD2923B-472KE	4.7	2.2	2.6	30	63	69	72	20	28
PD2923B-682KE	6.8	2.2	2.6	25	48	53	56	20	28
PD2923B-103KE	10	2.2	2.6	20	30	34	37	20	28
PD2923B-153KE	15	2.2	2.6	16	20.4	23	24.4	20	28
PD2923B-223KE	22	2.2	2.6	13	12.2	14.6	16.4	20	28
PD2923B-333KE	33	2.2	2.6	10	7.5	9.2	10.3	20	28

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。

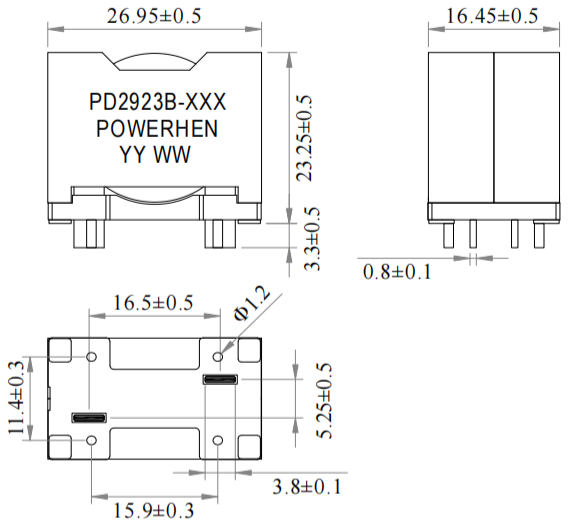
⑤导致指定温度从 25° C 环境温度上升的电流。 此信息仅供参考，不代表绝对最大额定值。

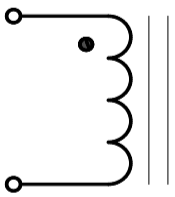
⑥25° C 时的电气规格

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

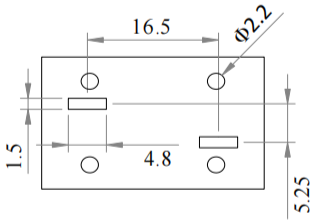
*The specifications of the data measured in the laboratory, differen conditions of use, please refer to the actual.
*The specifications are subject to change, without prior notice.
*Without approval, this product can not be used for medical militar or other high-risk areas

Dimensions 结构尺寸



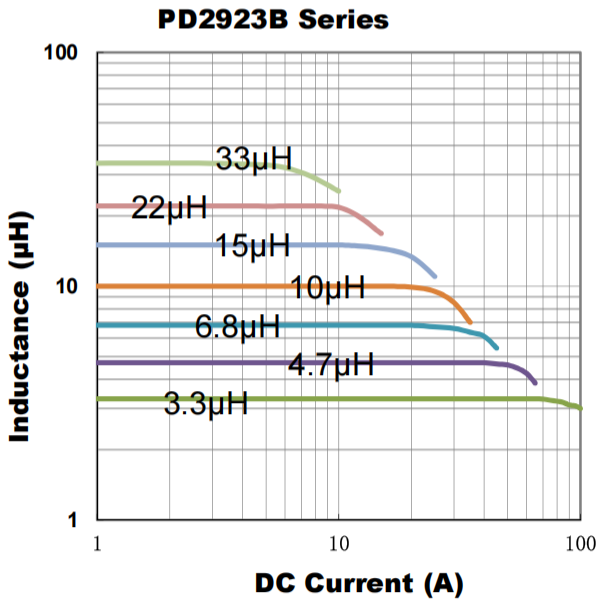


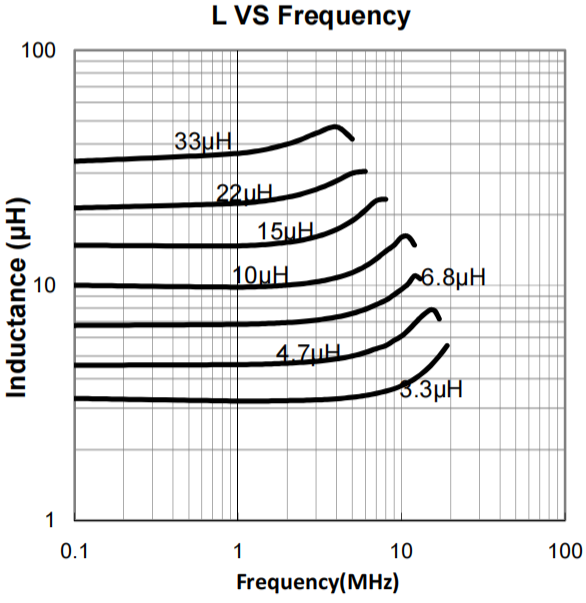
SCHEMATIC



PCB LAYOUT

Electrical Characteristic Curve 电气特性曲线



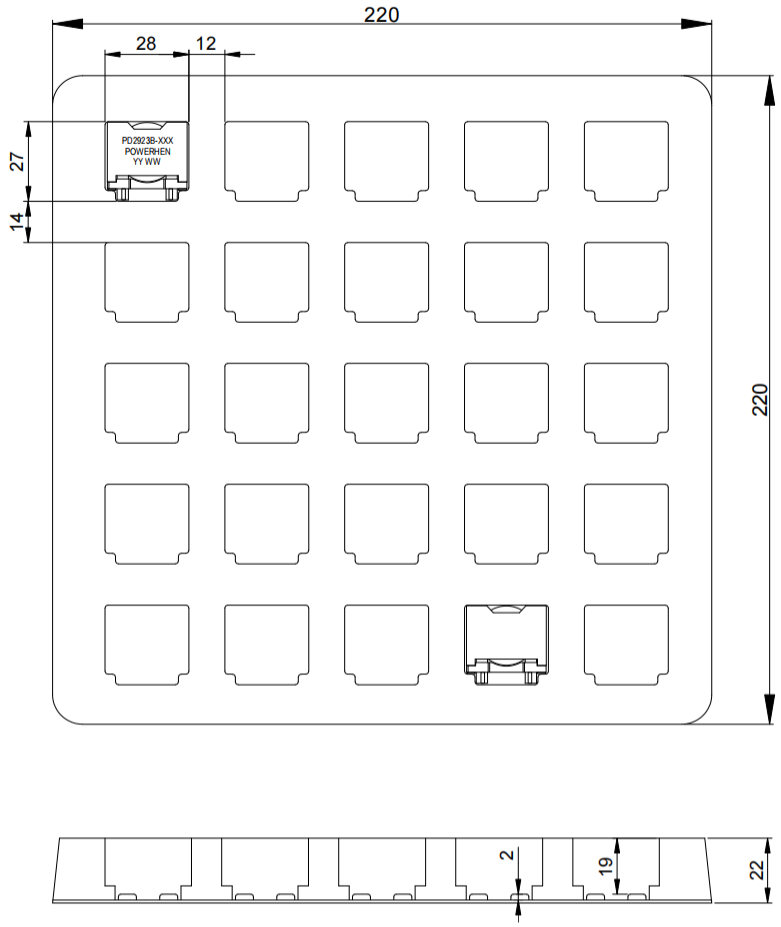


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■Packaging Specification - tray: [mm]

包装规格 – 托盘包装：[mm]



Weight 重量: 38.4~39.2g/PCS

Packaging 包装数量: 25 PCS/盘

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