芯芒微电子

XINMANG MICROELECTRONICS

POWERHEN

Electronics

产品规格书

PR2413

贴片大电流功率电感

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样品申请 · 替代选型 · 批量报价，欢迎来函来电

SMD HIGH CURRENT POWER INDUCTOR 贴片大电流功率电感

■PR2400 Series

Features 特点

- Susing flat wire, and SMD type. 采用扁平线，贴片类型
- 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℃
- Tape and reel packaging: -40°C to +80°C 卷带包装： －40° C 至 +80° C
- Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles
  耐焊接热 最多三个 40 秒回流 +260° C，部件在循环之间冷却至室温
- Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)
  湿气敏感度等级 (MSL) 1（在 <30° C 时的无限车间寿命/ 85% 相对湿度）



Applications

- 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

Part number 料号	Inductance① 电感量 μH ±10%	DCR (mΩ)② 直流电阻 typ	DCR (mΩ)② 直流电阻 max	SRF ③ 自谐频率 (MHz) reference	Isat ④ 直流饱和电流 A typical drop10%	Isat ④ 直流饱和电流 A typical drop20%	Isat ④ 直流饱和电流 A typical drop30%	Irms⑤ 温升电流 A typiacl rise20℃	Irms⑤ 温升电流 A typiacl rise40℃
PR2413-102KL	1.0	0.45	0.5	60	69.2	78.5	80.2	38.2	54.4
PR2413-152KL	1.5	0.65	0.75	50	68.8	79.3	81.4	36.8	47.1
PR2416-222KL	2.2	0.85	0.94	40	61.2	67.9	69.1	34.7	44.9
PR2416-332KL	3.3	1.0	1.1	25	52.4	58.3	60.7	30.1	40.3
PR2419-472KL	4.7	1.25	1.38	20	45.9	46.4	47.1	26.8	37.3
PR2419-682KL	6.8	1.45	1.6	18	37.2	37.9	38.4	24.0	35.0
PR2422-103KL	10	1.85	2.04	15	33.1	34.9	35.8	21.8	32.1
PR2418-153KL	15	2.8	3.08	13	24.1	24.6	25.2	18.2	25.5
PR2421-203KL	20	3.4	3.74	11	20.9	21.5	22.1	16.4	24.0
PR2421-303KL	30	3.6	3.96	8	15.2	16.9	17.5	14.8	22.9

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

③ SRF measured using an Agilent 4395A network analyzer and an Agilent 16093A 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 16093A 测试夹具测量。

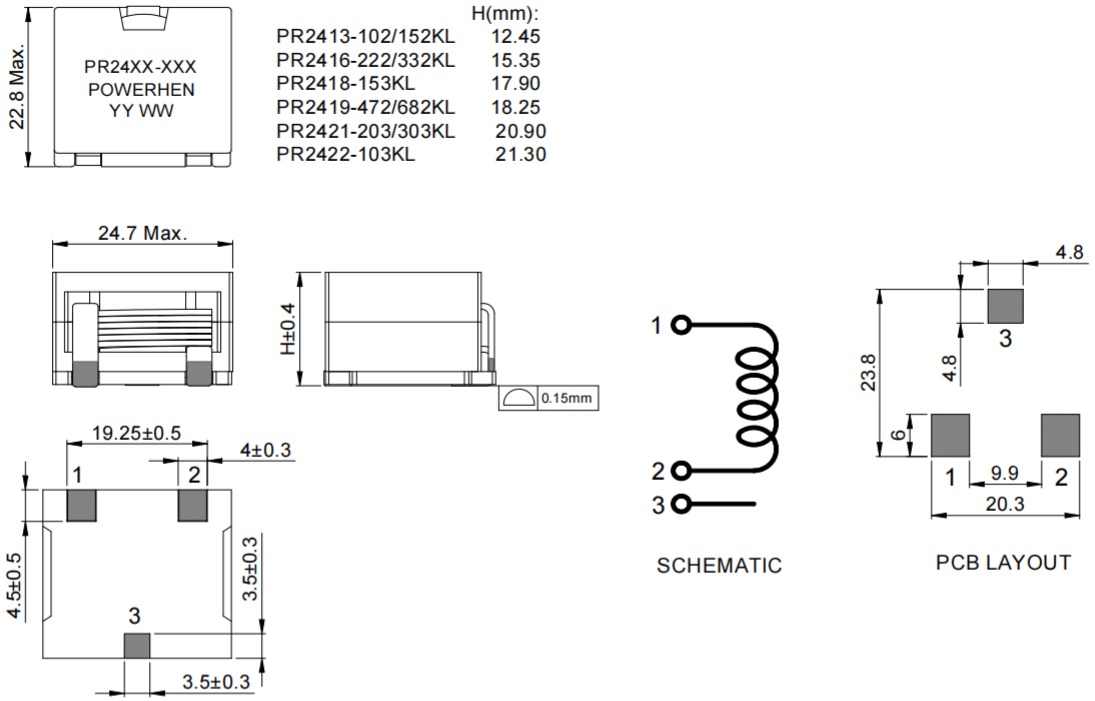
④直流电流在 25° C，加载导致指定电感从没有电流的值下降。

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。

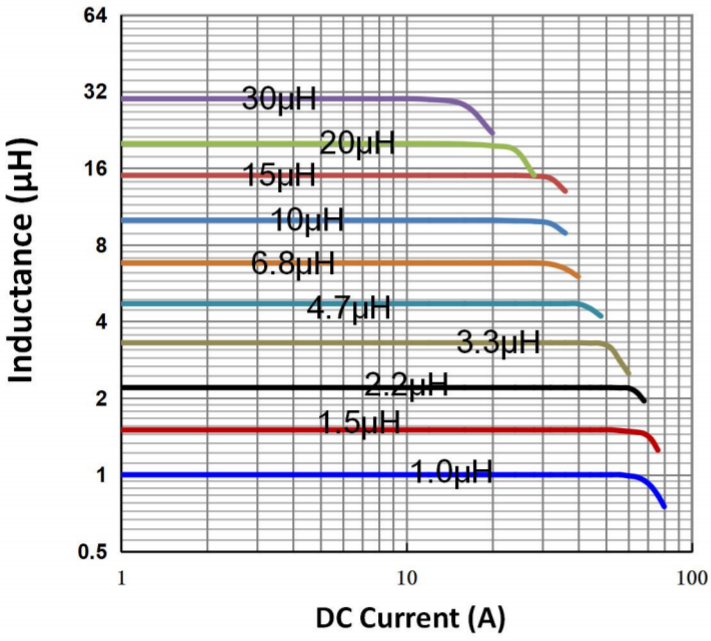
⑥25° C 时的电气规格

ShenZhen Powerhen Electronics Co.,Ltd
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Tel:0755-23570708 E-Mail:sales@powerhen.com

Dimension 结构尺寸



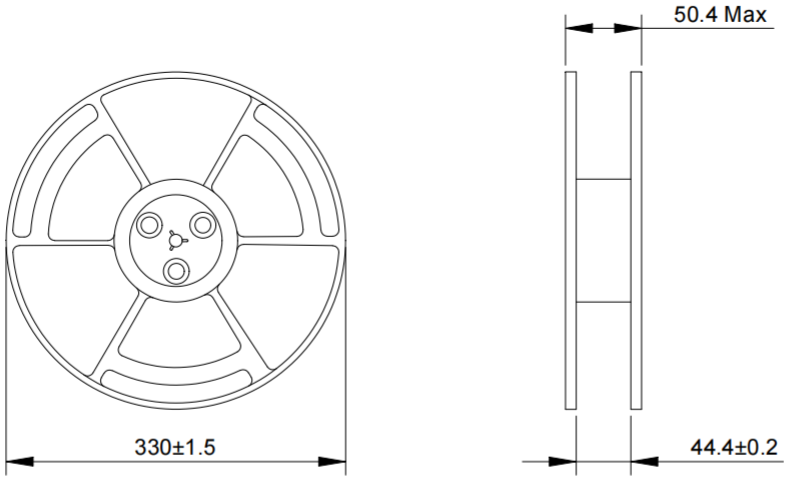
■PR2400 Series Electrical Characteristic Curve 电气特性曲线

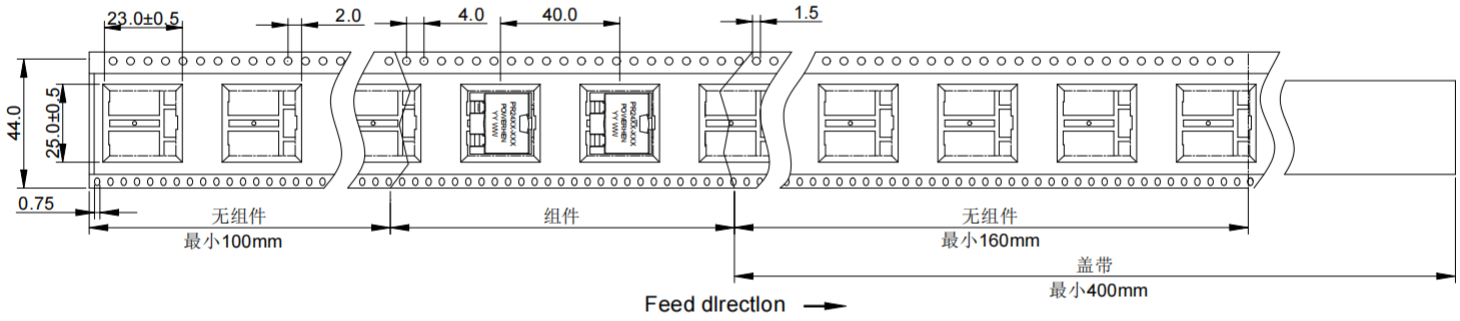


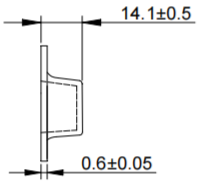
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Tel:0755-23570708 E-Mail:sales@powerhen.com

■Packaging Specification - Tape and Reel: [mm]

包装规格 - 卷带包装：[mm]

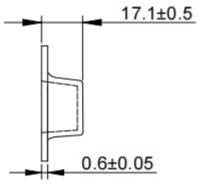






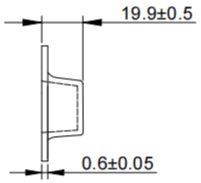
PR2413

重量: 22.93~24.6g/PCS
包装数量: 100 PCS/Reel



PR2416

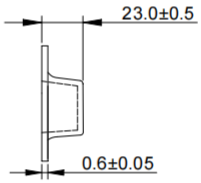
重量: 29.23~31.33g/PCS
包装数量: 85 PCS/Reel



PR2418/PR2419

PR2418 重量:37.02g/PCS
包装数量: 70 PCS/Reel

PR2419 重量: 35.64~37.42g/PCS
包装数量: 70 PCS/Reel



PR2421/PR2422

PR2421 重量:44.42~45.46g/PCS
包装数量: 60 PCS/Reel

PR2422重量:44.05g/PCS
包装数量: 60 PCS/Reel