芯芒微电子

XINMANG MICROELECTRONICS

POWERHEN

Electronics

产品规格书

PR1607

贴片大电流功率电感

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

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

■PR16XX 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/85%车间 相对湿度时的无限寿命）



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	Inductance ① 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℃
PR1607-102KL	1.0	1.00	1.10	18	39.7	40.4	40.7	25.2	36.0
PR1608-152KL	1.5	1.40	1.54	24	38.9	40.5	40.8	21.2	30.0
PR1609-222KL	2.2	1.80	1.98	22	34.9	37.3	38.8	20.1	26.8
PR1610-332KL	3.3	2.20	2.42	21	28.7	30.9	31.4	16.8	25.0
PR1610-472KL	4.7	2.20	2.42	21	20.1	21.5	22.8	16.8	25.0
PR1608-682KL	6.8	6.20	6.82	18	16.9	18.7	19.5	10.7	14.4
PR1608-103KL	10	7.20	7.92	14	13.1	14.6	15.4	9.4	13.0
PR1609-153KL	15	10.20	11.22	14	12.7	14	14.6	8.1	11.7
PR1610-203KL	20	12.10	13.3	13	11.3	12.4	12.9	7.3	10.0
PR1611-303KL	30	15.40	16.94	10	9.7	10.3	10.7	6.1	8.5

Remark

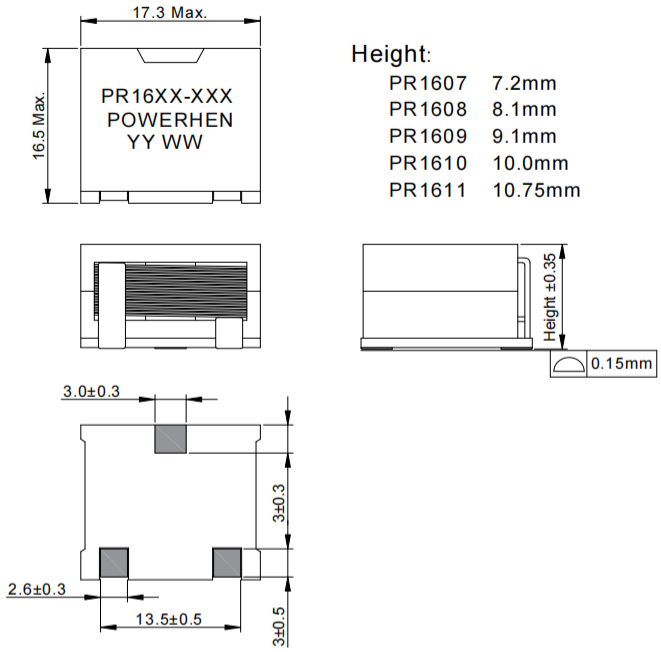
①Inductance is measured with a LCR meter Agilent 4284A or equivalent. Test frequency at 100kHz 1V
②DC resistance is measured with keithley 580 Milliohm Meter , or Equivalent. Reference ambient temperature 25°C
③SRF measured using an Agilent 4395A network analyzer and an Agilent 16093A test fixture.
④DC 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

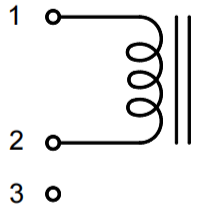
备注

①电感量测试采用 Agilent 4284A 数字电桥或同等仪器；测试频率 100KHz 1V
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

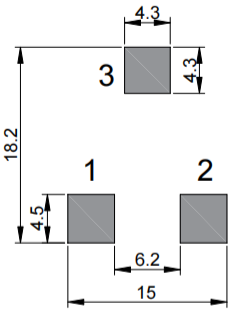
ShenZhen Powerhen Electronics Co.,Ltd
Addr:Floor 3, Building 2, Shenliang Automotive Electronic Industrial Park, Guanlan Town, Shenzhen
Tel:0755-23570708 E-Mail:sales@powerhen.com

Dimension 结构尺寸





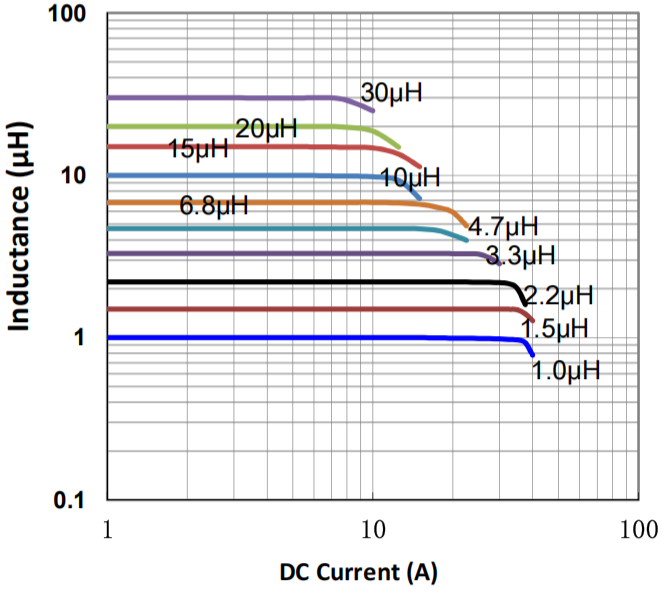
SCHEMATIC

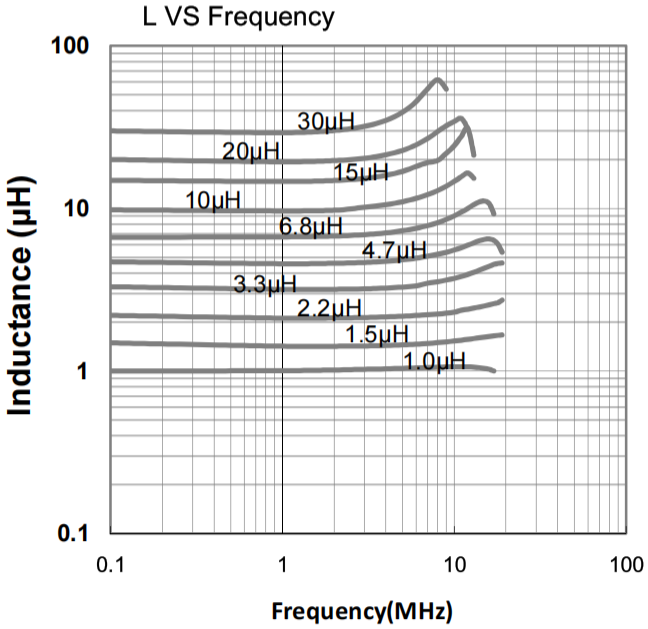


PCB LAYOUT

■**PR16XX**

Electrical Characteristic Curve 电气特性曲线

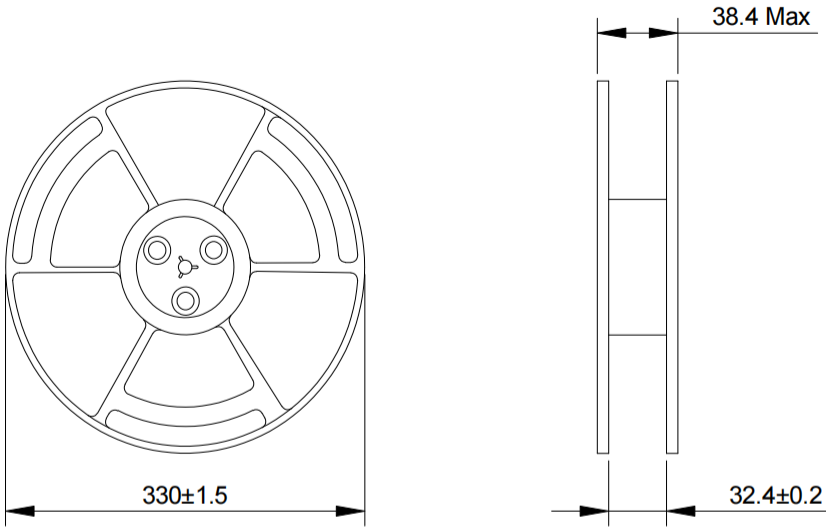


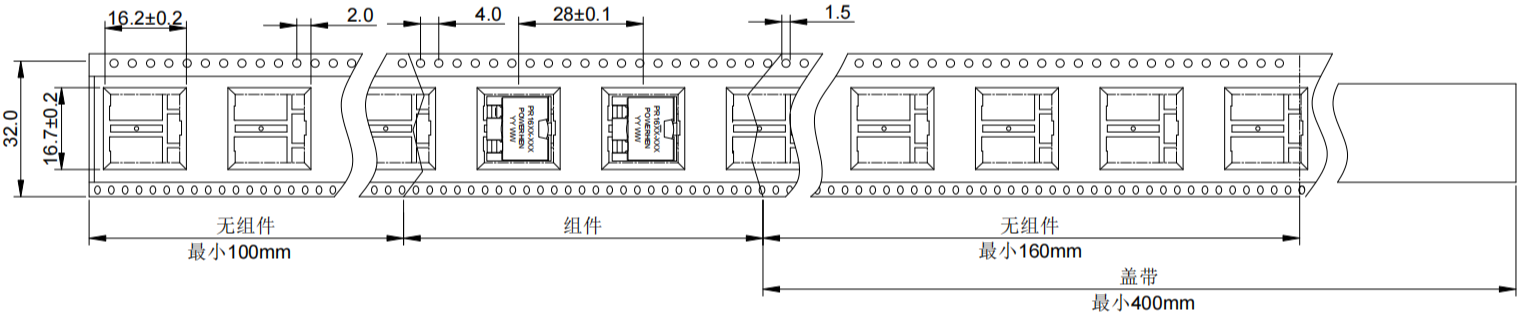


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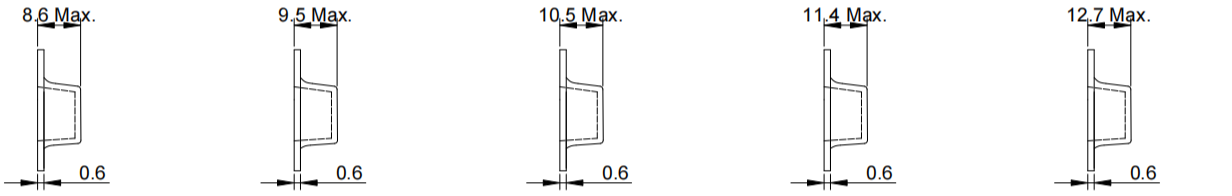
■Packaging Specification - Tape and Reel: [mm]

包装规格 - 卷带包装：[mm]





Feed direction →



PR1607 Series.
Weight 重量:8.22g/PCS
Packaging 包装数量:300 PCS/Reel

PR1608 Series.
Weight 重量:8.62g/PCS
Packaging 包装数量: 280 PCS/Reel

PR1609 Series.
Weight 重量:9.15g/PCS
Packaging 包装数量:250 PCS/Reel

PR1610 Series.
Weight 重量:9.82g/PCS
Packaging 包装数量: 210 PCS/Reel

PR1611 Series.
Weight 重量:10.37g/PCS
Packaging 包装数量: 170 PCS/Reel