芯芒微电子

XINMANG MICROELECTRONICS

POWERHEN

Electronics

产品规格书

PR2714

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

■PR2700 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)	Isat ④ 直流饱和电流 A typical			Irms⑤ 温升电流 A typiacl	
				reference	drop10%	drop20%	drop30%	rise20℃	rise40℃
PR2712-102KL	1.0	0.46	0.51	45	101.5	103	104	38.0	52.0
PR2712-152KL	1.5	0.46	0.51	35	67.0	71.0	72.0	38.2	52.5
PR2714-222KL	2.2	0.68	0.75	30	68.0	72.0	73.0	35.0	46.5
PR2715-332KL	3.3	0.88	0.97	25	60.3	62.2	62.8	32.0	42.5
PR2715-472KL	4.7	1.39	1.53	20	53.5	55.4	56.2	29.0	37.0
PR2716-682KL	6.8	1.66	1.83	15.5	44.0	45.9	46.8	27.8	34.5
PR2717-103KL	10	1.92	2.12	15	34.8	35.6	36.4	25.0	33.0
PR2717-153KL	15	1.92	2.12	9	22.9	24.4	25.2	25.0	33.0

Remark

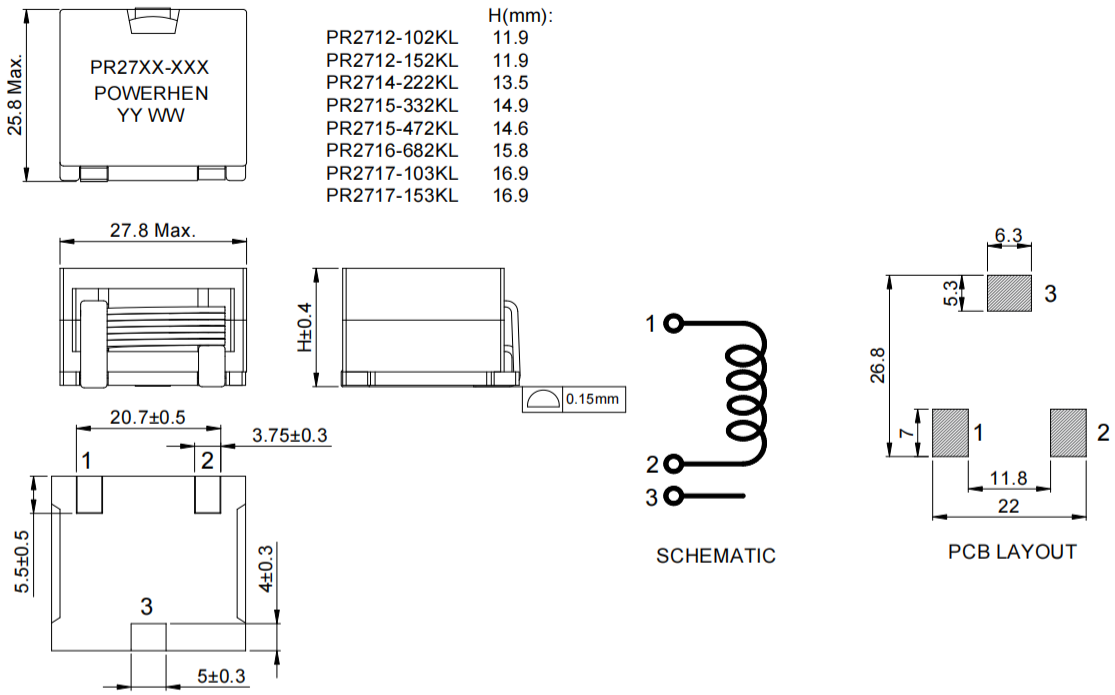
①Inductance is measured with a LCR meter Agilent 4284A or equivalent.
Test frequency at 100kHz 1V
②DC resistance is measured with keithley 580 Milliohm Meter , or equivalent.
Reference ambient temperature 25°C
③SRF measured using an Agilent 4395A network analyzer and an Agilent 16093A test fixture.
④DC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

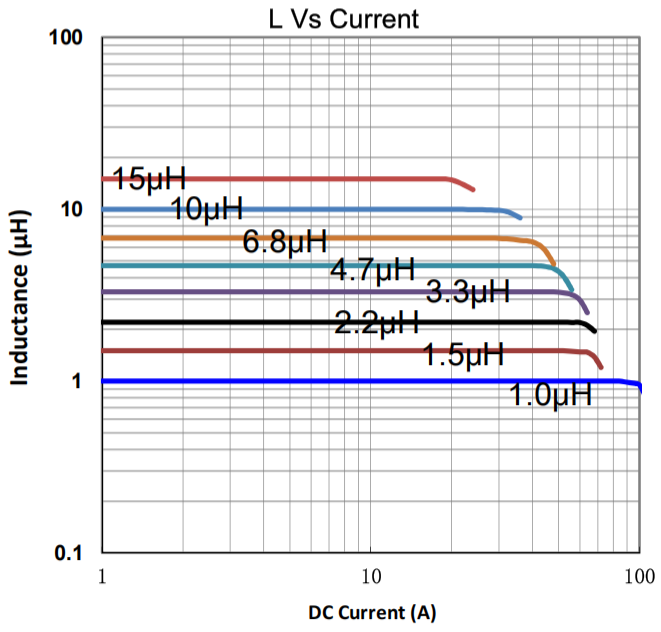
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Tel:0755-23570708 E-Mail:sales@powerhen.com

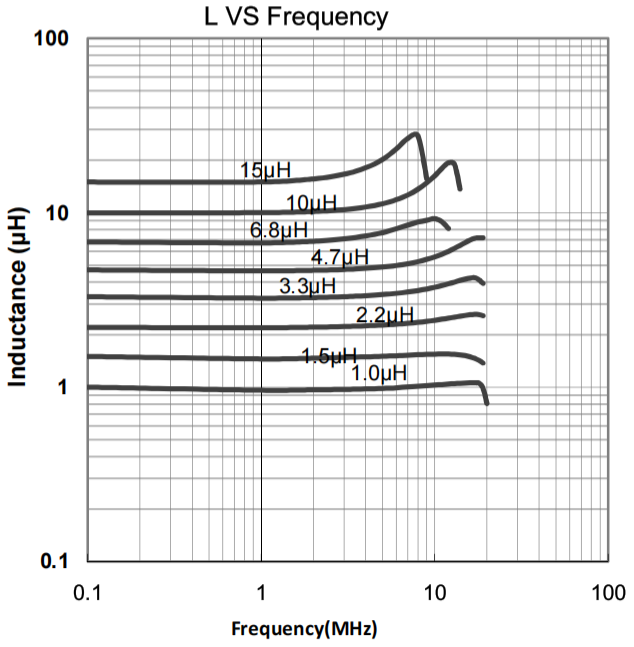
Dimension 结构尺寸



	H(mm):
PR2712-102KL	11.9
PR2712-152KL	11.9
PR2714-222KL	13.5
PR2715-332KL	14.9
PR2715-472KL	14.6
PR2716-682KL	15.8
PR2717-103KL	16.9
PR2717-153KL	16.9

■PR2700 Series Electrical Characteristic Curve 电气特性曲线

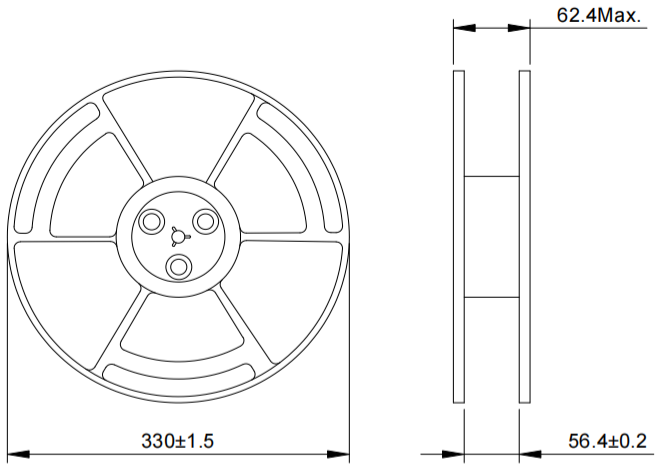


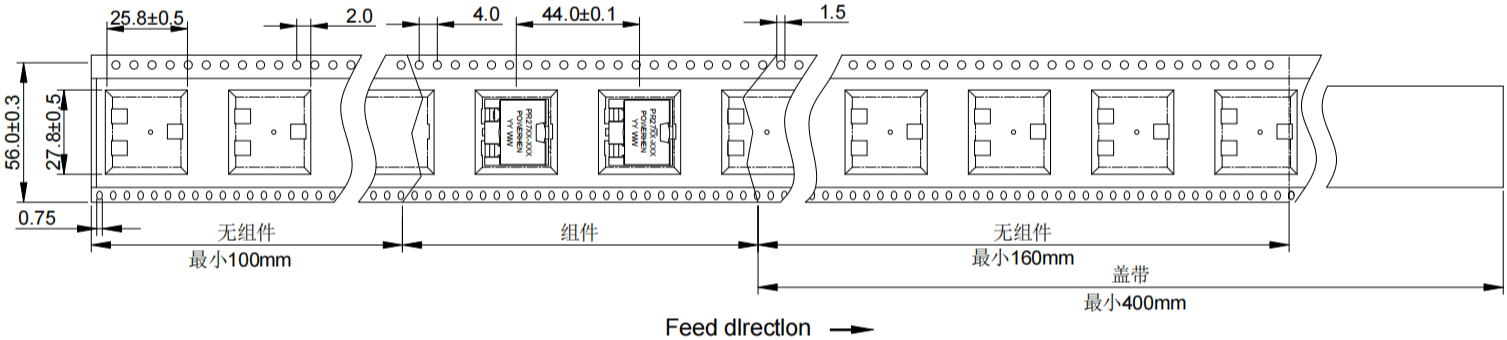


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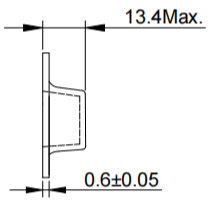
■Packaging Specification - Tape and Reel: [mm]

包装规格 - 卷带包装：[mm]



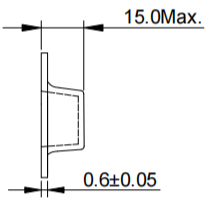


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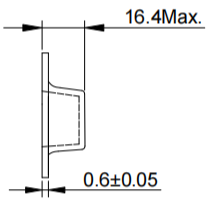
PR2712

重量: 28.48g/PCS
包装数量: 100 PCS/Reel



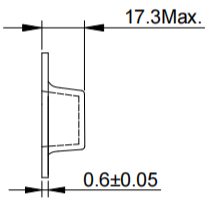
PR2714

重量: 36.28g/PCS
包装数量: 90 PCS/Reel



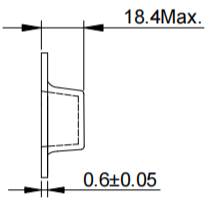
PR2715

重量: 36.22-36.95g/PCS
包装数量: 80 PCS/Reel



PR2716

重量: 39.27g/PCS
包装数量: 75 PCS/Reel



PR2717

重量: 42.73g/PCS
包装数量: 65 PCS/Reel