芯芒微电子

XINMANG MICROELECTRONICS

POWERHEN

Electronics

产品规格书

PR105

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

■PR105 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) typical	Isat(A) ④ 直流饱和电流 A typical drop10%	Isat(A) ④ 直流饱和电流 A typical drop20%	Isat(A) ④ 直流饱和电流 A typical drop30%	Irms(A)⑤ 温升电流 A typiacl rise20℃	Irms(A)⑤ 温升电流 A typiacl rise40℃
PR105-361KL	0.36	1.4	1.6	120	29	30.2	30.5	19	21
PR105-801KL	0.8	2.0	2.38	100	17	18.8	19	17.7	19.6
PR105-102KL	1.0	3.4	3.8	95	21	21.6	21.8	13	16.3
PR105-122KL	1.2	6.2	6.9	91	21.6	22.4	22.5	9	12
PR105-132KL	1.3	4.4	4.85	81	18.8	19.4	19.6	11.2	13.6
PR105-152KL	1.5	8.7	9.6	75	20	20.6	20.8	7.8	11
PR105-182KL	1.8	6.2	6.9	70	16	16.6	16.7	9	12
PR105-202KL	2.0	10.3	11.5	65	16.2	16.9	17.2	7.4	9.8
PR105-222KL	2.2	4.4	4.85	58	11	11.7	11.9	11.2	13.6
PR105-252KL	2.5	8.7	9.6	55	13.8	14.4	14.6	7.8	11
PR105-322KL	3.2	6.2	6.9	53	9	9.6	10.2	9	12
PR105-402KL	4.0	15	16.8	47	9.6	10.2	10.3	6.2	8.1
PR105-432KL	4.3	8.7	9.6	44	8.2	9	9.1	7.8	11
PR105-572KL	5.7	19.8	22	35	8.4	9	9.2	4.9	5.4

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 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。

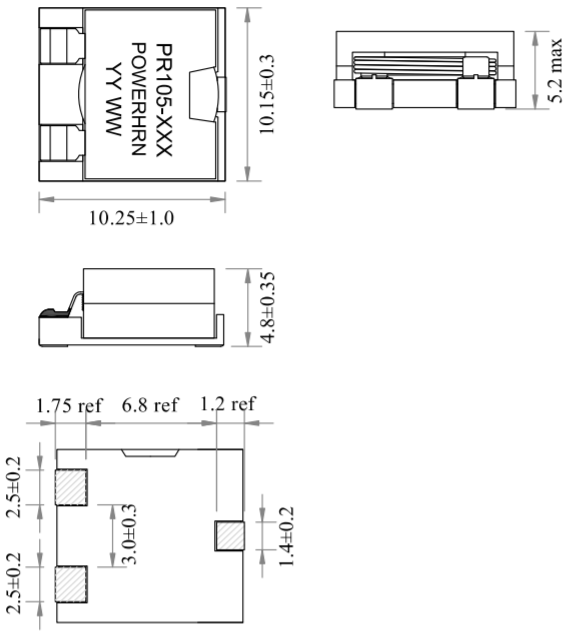
④直流电流在 25° C，加载导致指定电感从没有电流的值下降。

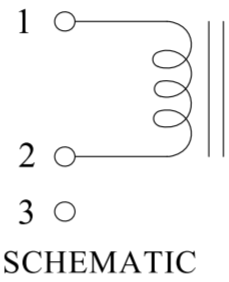
⑤导致指定温度从 25° C 环境温度上升的电流。 此信息仅供参考，不代表绝对最大额定值。

⑥25° C 时的电气规格

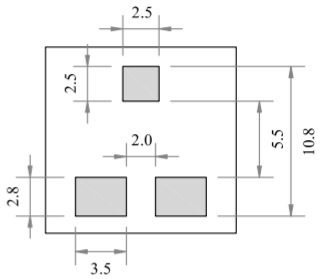
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Dimension 结构尺寸



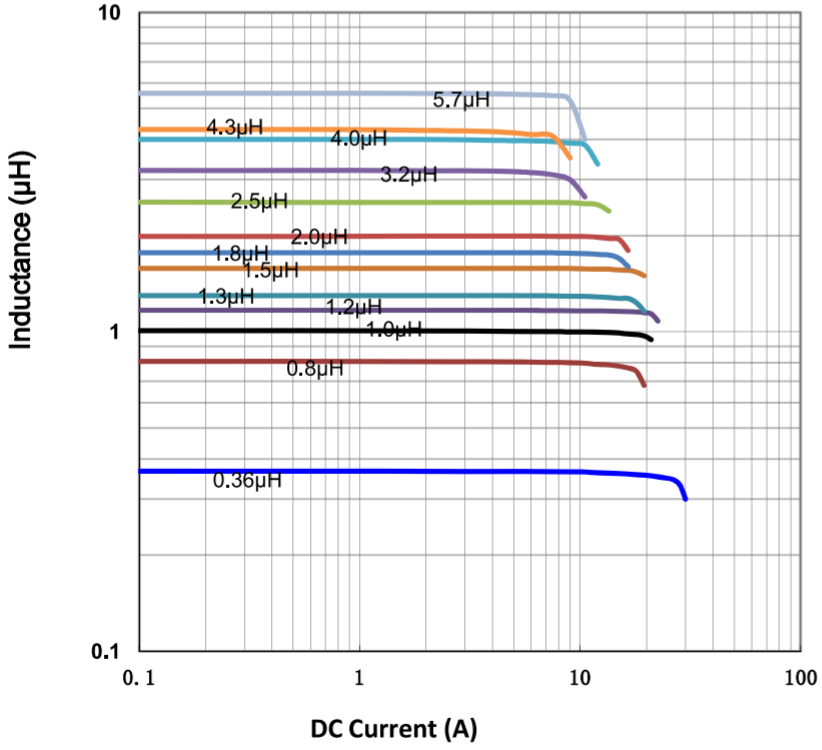


SCHEMATIC



PCB LAYOUT

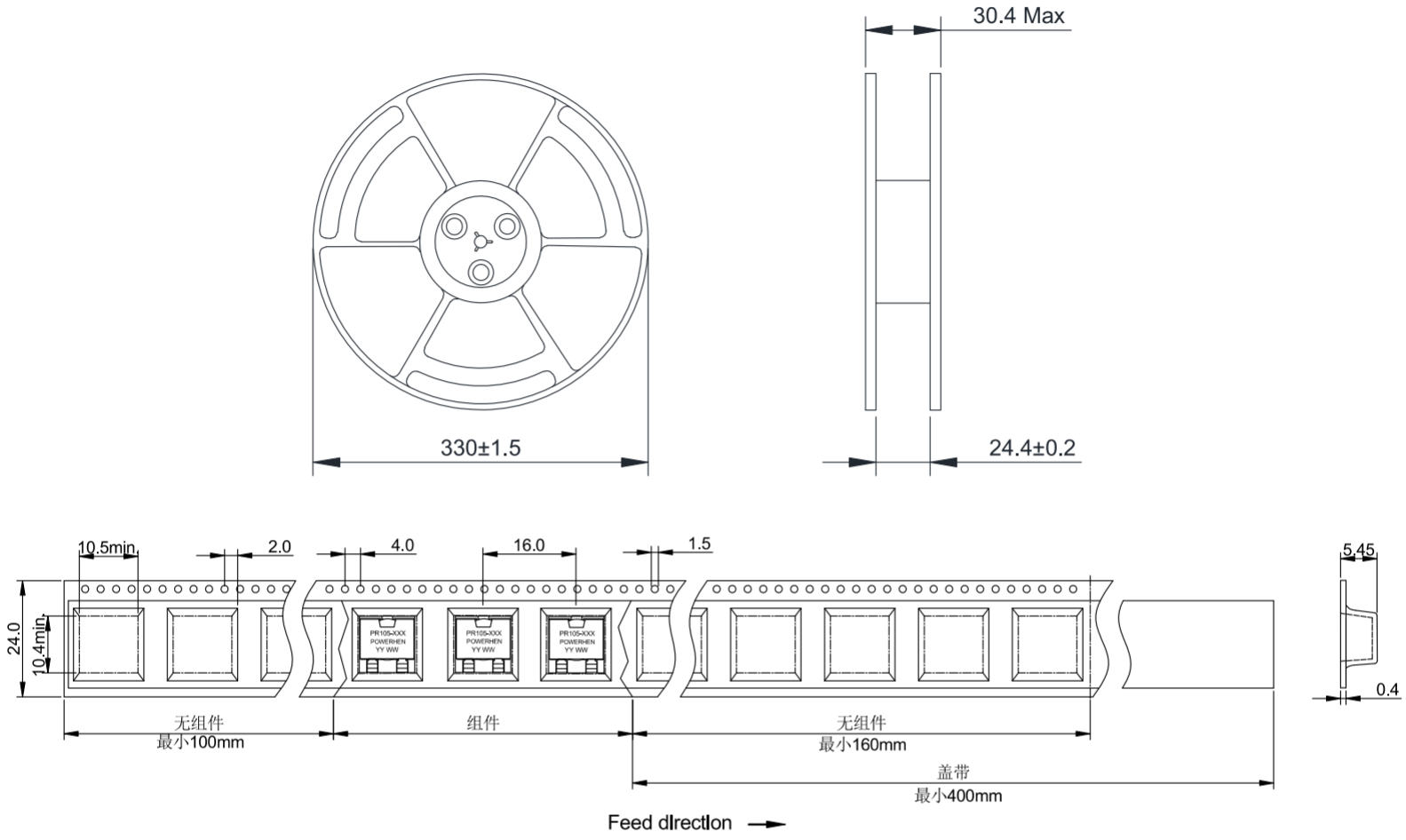
Electrical Characteristic Curve 电气特性曲线



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■Packaging Specification - Tape and Reel: [mm]

包装规格 - 卷带包装：[mm]



Weight 重量: 1.42~1.55g/PCS

Packaging 包装数量:700 PCS/Reel