芯芒微电子

XINMANG MICROELECTRONICS

POWERHEN

Electronics

产品规格书

PR148

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

■PR148 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% 相对湿度时无存放寿命限制）



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	Inductance① μH ±10%	DCR (mΩ)② typ	DCR (mΩ)② max	SRF③ MHz 自谐频率 typical	Isat(A) ④ 饱和电流 A typ 10% drop	Isat(A) ④ 饱和电流 A typ 20% drop	Isat(A) ④ 饱和电流 A typ 30% drop	Irms(A)⑤ 温升电流 A typ. 20°Crise	Irms(A)⑤ 温升电流 A typ. 40°Crise
PR148-501KL	0.5	0.98	1.1	170	49.5	52.2	53	13.5	23
PR148-112KL	1.1	1.22	1.35	140	35	39	39.8	13	21.5
PR148-202KL	2.0	1.69	1.86	70	27.8	29.5	30.2	12	20
PR148-312KL	3.1	2.7	2.98	45	22	23.5	23.9	10.5	17.5
PR148-452KL	4.5	4.14	4.58	40	18.5	19.7	20	9.5	16
PR148-612KL	6.1	5.02	5.55	32	16	17	17.4	7.5	12.5
PR148-802KL	8.0	6.5	7.15	30	13.9	14.8	15.2	7.1	11
PR148-103KL	10	8.21	9.1	27	12.4	13	13.3	6.5	10
PR148-123KL	12	11.1	12.5	22	11.5	12.3	12.7	5.4	8.5

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。

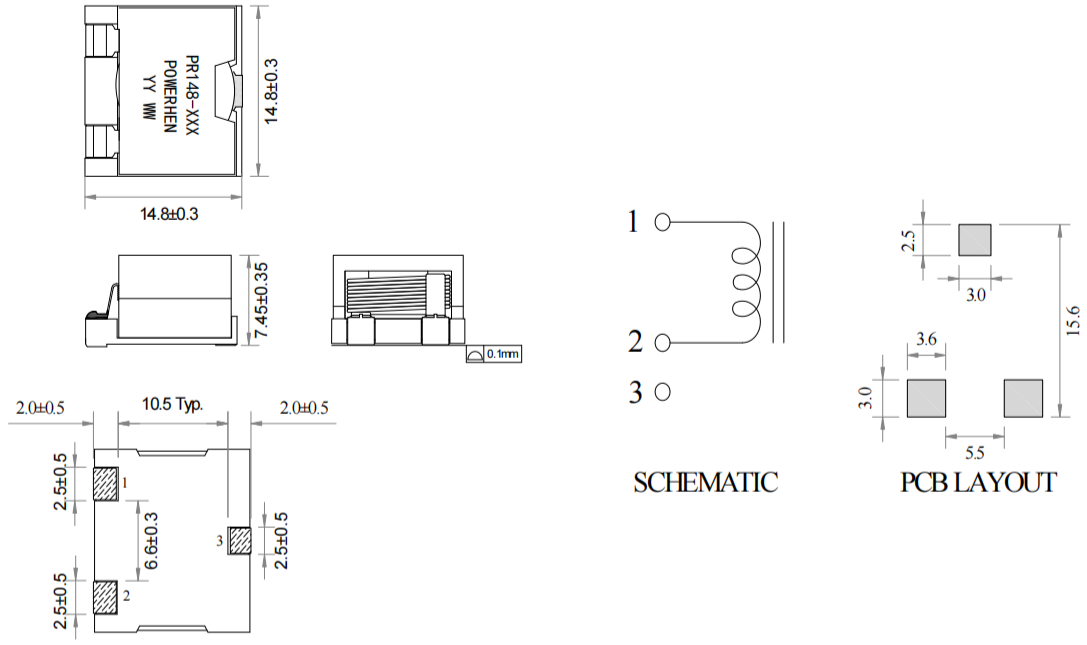
⑤导致指定温度从 25° C 环境温度上升的电流。 此信息仅供参考，不代表绝对最大额定值。

⑥25° C 时的电气规格

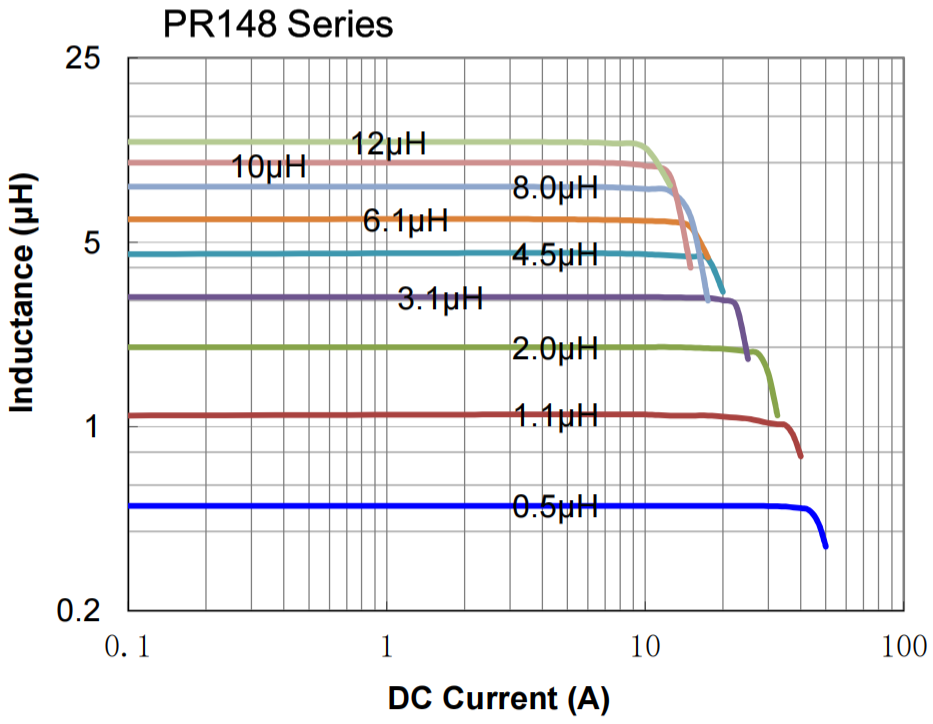
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Date:2022-09

Dimension 结构尺寸



Electrical Characteristic Curve 电气特性曲线

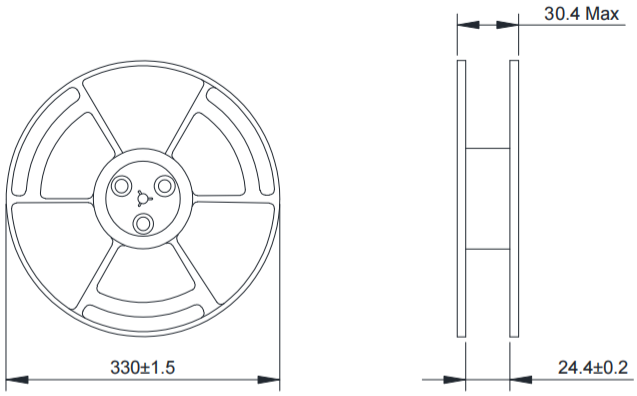


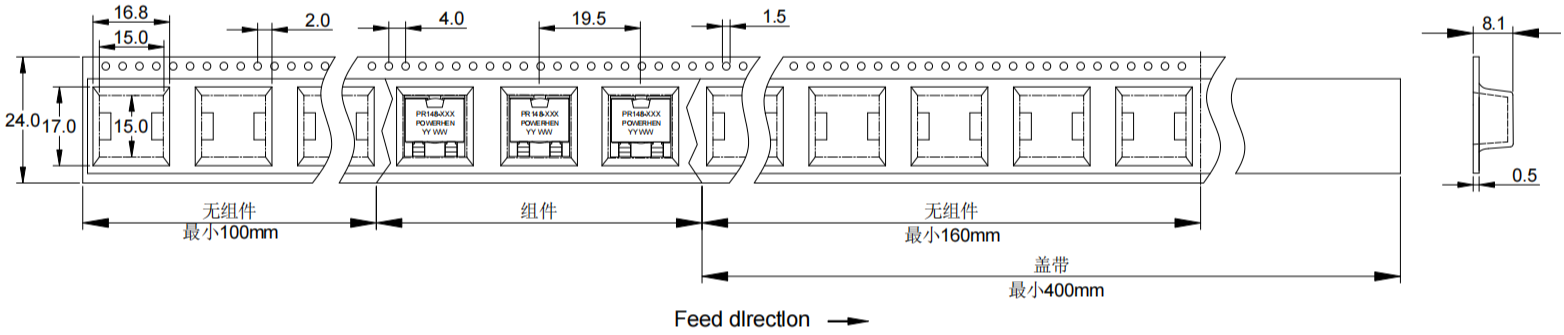
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Tel:0755-23570708 *E-Mail:sales@powerhen.com*

Date:2022-09

■Packaging Specification - Tape and Reel: [mm]

包装规格 - 卷带包装：[mm]





Weight 重量: 5.14~7.16g/PCS

Packaging 包装数量:350 PCS/Reel