

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°C ~ +125°C. 工作温度: -40°C ~ +125°C
- 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 max	SRF③ MHz 自谐频率		Isat(A) ④ 饱和电流 A typ				Irms(A)⑤ 温升电流 A typ.	
			typical	10% drop	20% drop	30% drop	20°C rise	40°C rise		
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

- ① Inductance is measured with a LCR meter Agilent 4284A or equivalent.
Test frequency at 100kHz
- ② DC 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 16193A test fixture.
- ④ DC current at 25°C that causes the specified inductance drop from its value without current.
- ⑤ Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.
- ⑥ Electrical 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
- ③ SRF 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。
- ⑥ 25°C 时的电气规格

ShenZhen Powerhen Electronic Co.,Ltd

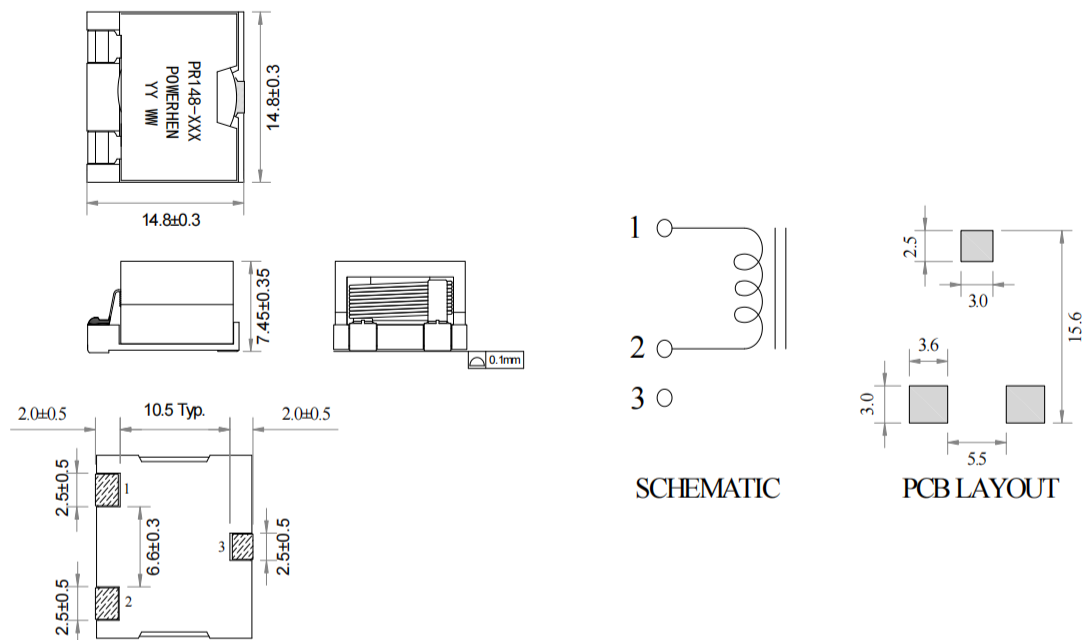
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Tel: 0755-23570708

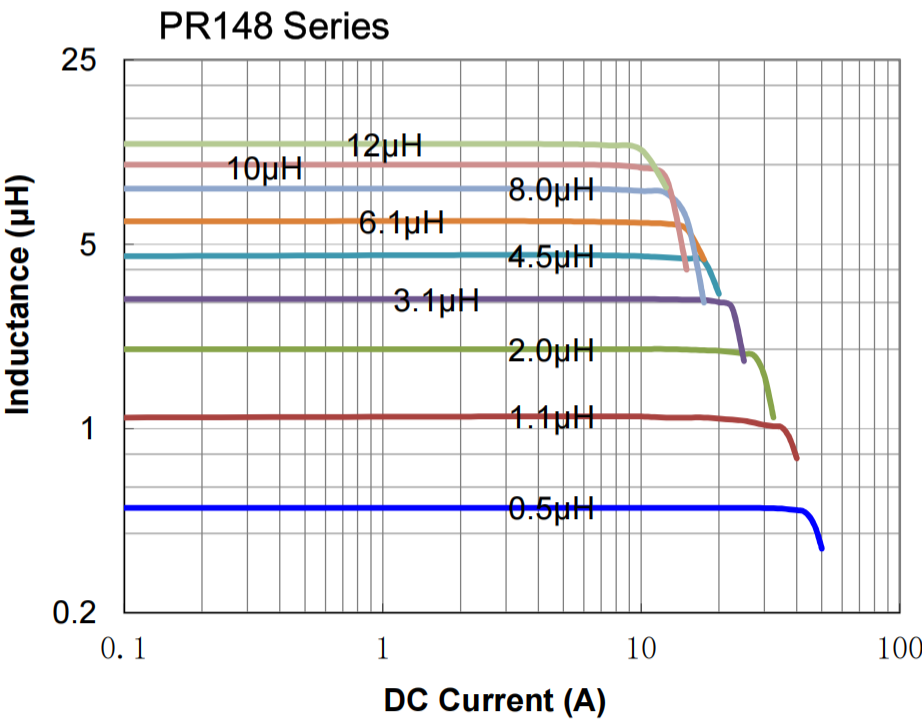
E-Mail: sales@powerhen.com

Date: 2022-09

Dimension 结构尺寸

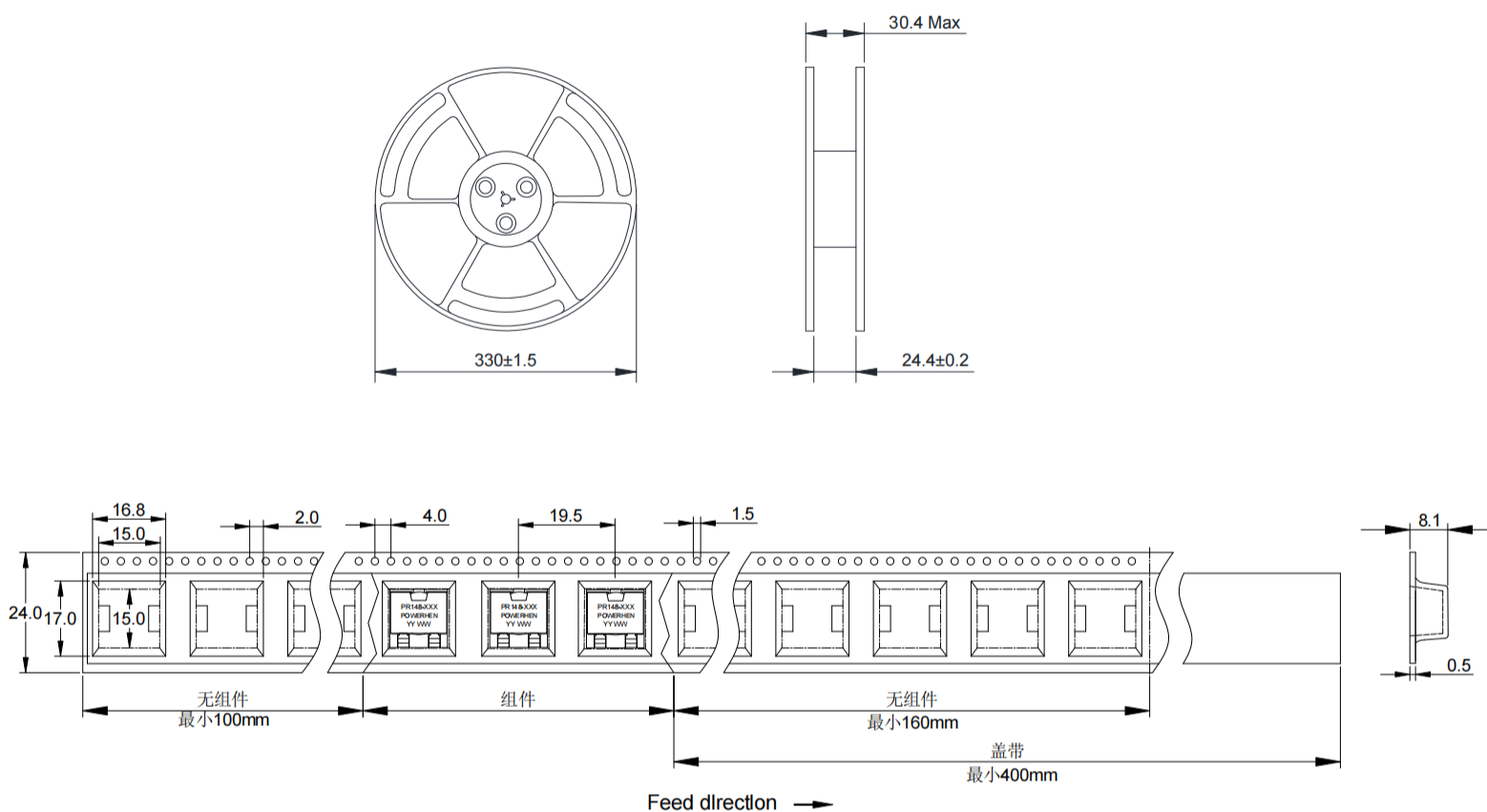


Electrical Characteristic Curve 电气特性曲线



■ 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