芯芒微电子

XINMANG MICROELECTRONICS

POWERHEN

Electronics

产品规格书

PR139

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

HIGH CURRENT POWER INDUCTOR 大电流功率电感

■PR139 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 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	Inductance ① μH ±10%	DCR (mΩ)② typ	DCR (mΩ)② max	SRF ③ MHz 自谐频率 typ	Isat 饱合电流 A (typical) 10% drop	Isat 饱合电流 A (typical) 20% drop	Isat 饱合电流 A (typical) 30% drop	Irms 温升电流 A (typical) 20℃ rise	Irms 温升电流 A (typical) 40℃ rise
PR139-103KL	10	13.7	15	26.9	12.8	13.2	14	6.4	9.2
PR139-153KL	15	13.7	15	24.3	8	8.8	9.2	6.4	9.2
PR139-223KL	22	21	23.1	20.3	6.4	7.2	8	5.7	7.7
PR139-333KL	33	21	23.1	15.7	4.2	4.8	5.4	5.7	7.7
PR139-473KL	47	21	23.1	13.2	3	3.4	3.6	5.7	7.7

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。

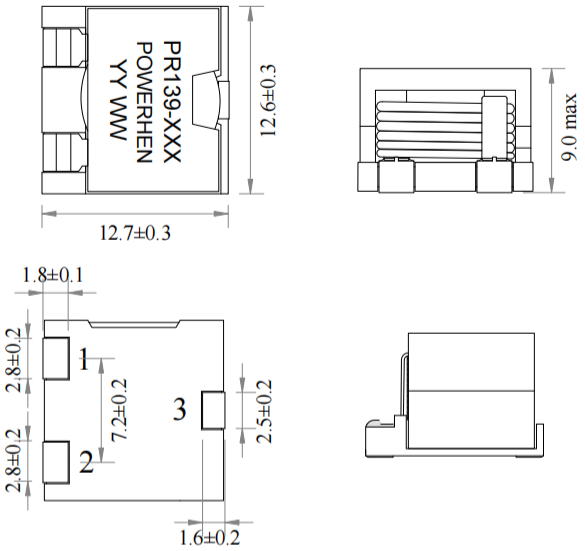
④直流电流在 25° C，加载导致指定电感从没有电流的值下降。

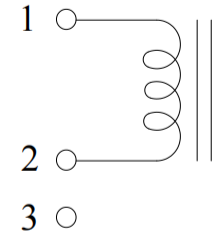
⑤导致指定温度从 25° C 环境温度上升的电流。 此信息仅供参考，不代表绝对最大额定值。

⑥25° C 时的电气规格

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Addr:Floor 3, Building 2, Shenliang Automotive Electronic Industrial Park, Guanlan Town, Shenzhen
Tel:0755-23570708 E-Mail:sales@powerhen.com
Date:2022-09

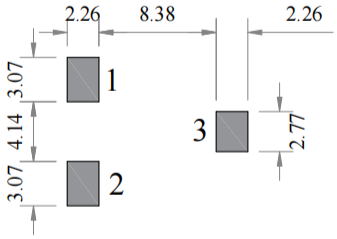
Dimension 结构尺寸





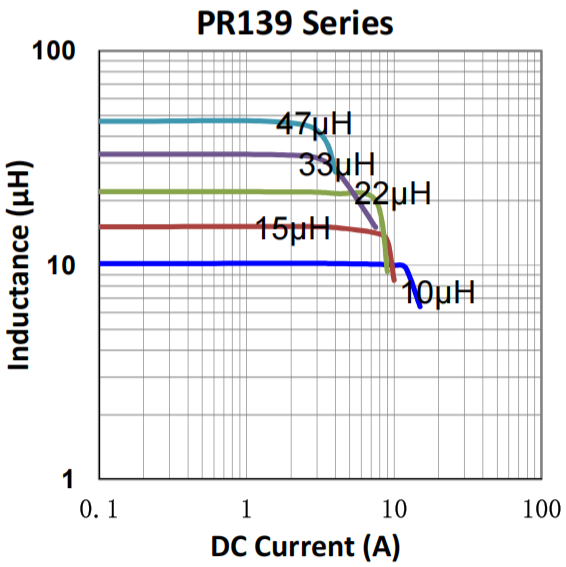
Terminal 3 is for mounting stability only

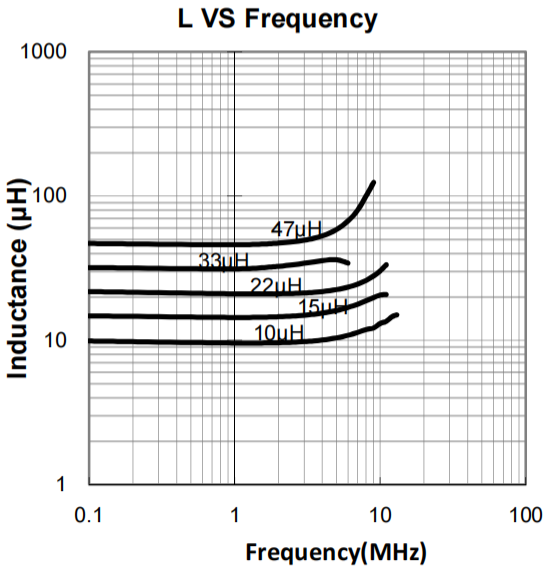
SCHEMATIC



PCB LAYOUT

Electrical Characteristic Curve 电气特性曲线

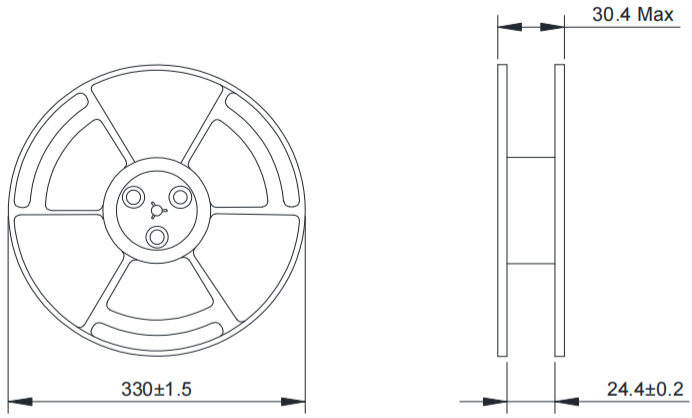


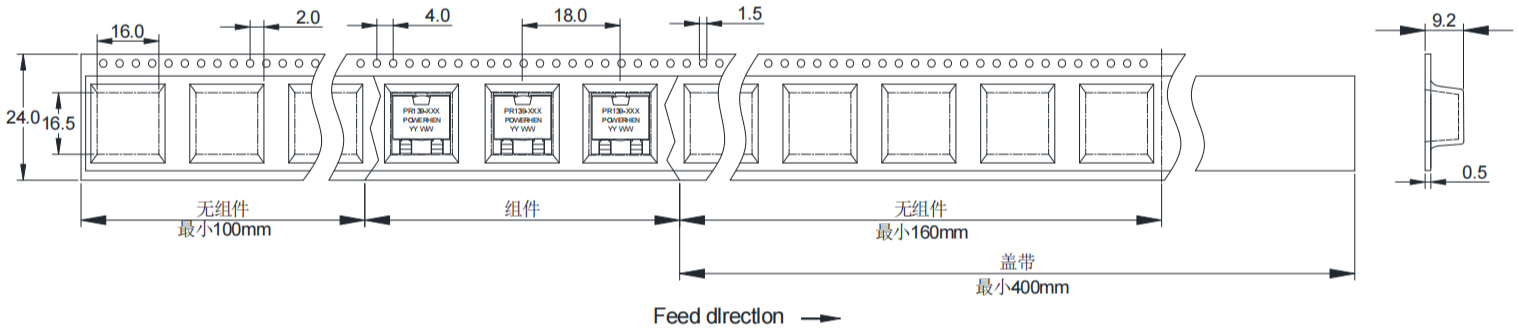


ShenZhen Powerhen Electronic Co.,Ltd
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Date:2022-09

■Packaging Specification - Tape and Reel: [mm]

包装规格 - 卷带包装：[mm]





Weight **重量**: 4.0~4.38g/PCS

Packaging **包装数量**: 300 PCS/Reel