芯芒微电子

XINMANG MICROELECTRONICS

POWERHEN

Electronics

产品规格书

PG74

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

■PG74 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	① Inductance μH±20%	②DC resistance mΩ typ	②DC resistance mΩ max.	③SRF typical MHz	④Isat A typical 10% drop	④Isat A typical 20% drop	④Isat A typical 30% drop	⑤Irms A typical 20℃rise	⑤Irms A typical 40℃rise
PG74-221ML	0.22	1.1	1.2	290	23	40	45	14.5	19.0
PG74-401ML	0.40	1.85	2.04	250	20	35	42	13.1	17.5
PG74-681ML	0.68	3.1	3.41	105	19	29	40	11.5	16.2
PG74-102ML	1.0	4.6	5.06	85	17	20	34	11.0	14.8
PG74-152ML	1.5	6.6	7.26	72	11	19	26	7.5	10.3
PG74-202ML	2.0	11.4	12.5	52	10	16	24	6.0	8.2
PG74-332ML	3.3	17.2	18.9	43	8	13	19	4.5	6.0
PG74-472ML	4.7	19.5	21.45	33	6.8	10	14	4.2	5.7

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。

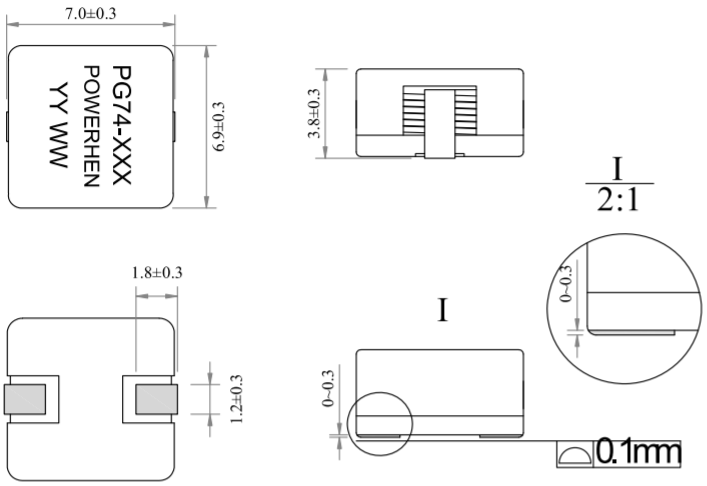
④直流电流在 25° C，加载导致指定电感从没有电流的值下降。

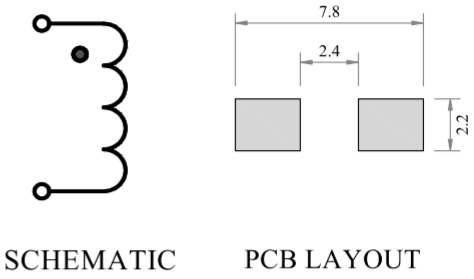
⑤导致指定温度从 25° C 环境温度上升的电流。 此信息仅供参考，不代表绝对最大额定值。

⑥25° C 时的电气规格

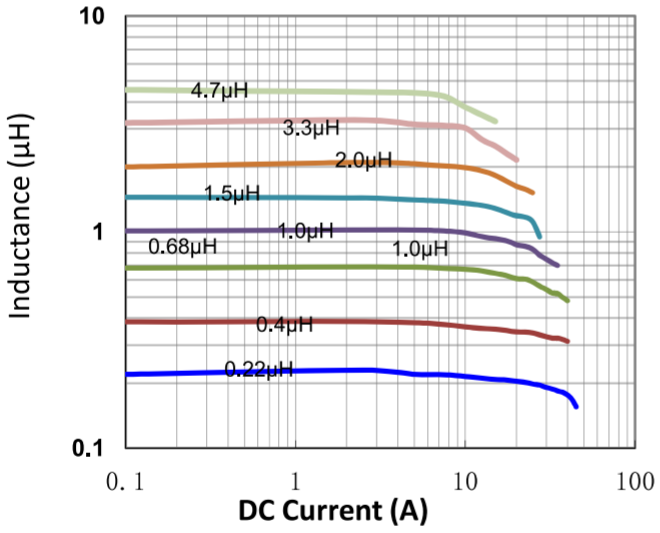
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■Dimensions 结构尺寸



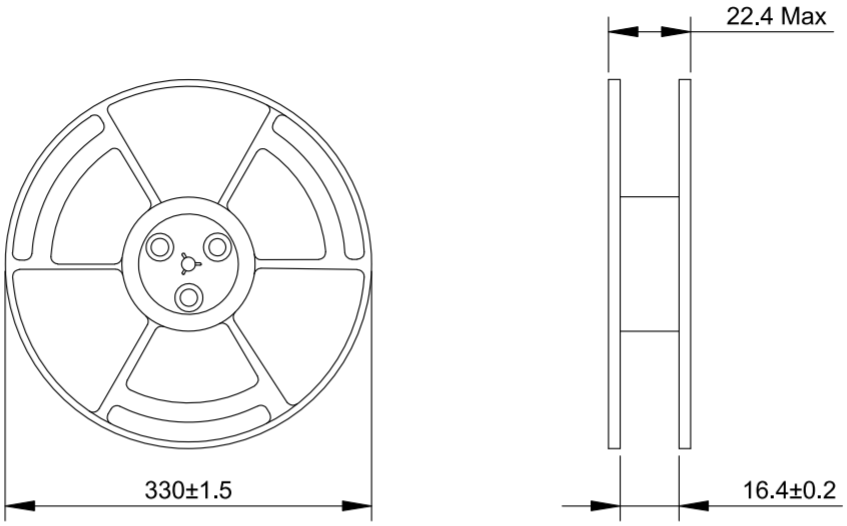


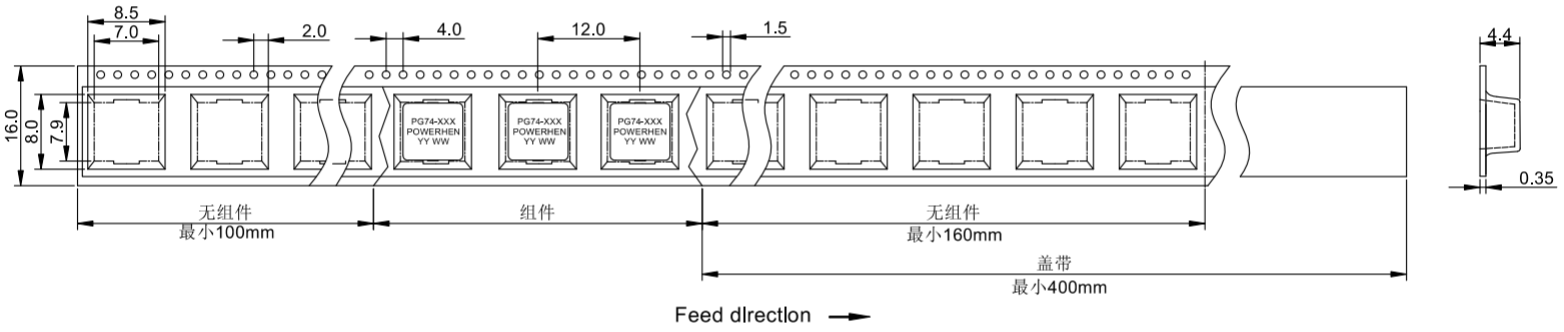
Electrical Characteristic Curve 电气特性曲线



■Packaging Specification - Tape and Reel: [mm]

包装规格 - 卷带包装：[mm]





Weight 重量: 0.82~0.86g/PCS

Packaging 包装数量: 1000 PCS/Reel

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