芯芒微电子

XINMANG MICROELECTRONICS

POWERHEN

Electronics

产品规格书

PG135

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

■PG135 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% 相对湿度时的无限制）



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
- Optimized for high current boost applications. 大电流升压应用优化

Electrical characteristics 电气特性

Part number	①Inductance 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
PG135-191ML	0.19	0.5	0.58	225	68	84	100	17.6	26.2
PG135-471ML	0.47	0.9	1.04	95	38	49	72	16.0	23.0
PG135-901ML	0.90	1.6	1.84	72	30	40	55	13.5	20.6
PG135-142ML	1.4	2.4	2.76	60	18.4	29.8	41.2	13.1	18.6
PG135-232ML	2.3	3.7	4.25	40	17.8	29.2	39.6	11.0	15.6
PG135-322ML	3.2	5.3	6.1	34	13	22.4	30.2	10.0	14.1
PG135-482ML	4.8	9.0	9.9	28	7.8	13.3	18.3	7.1	9.5
PG135-602ML	6.0	10.2	11.3	22	6.5	11.2	15.5	6.8	9.1
PG135-822ML	8.2	12.5	13.8	20	7.2	12.2	18.2	6.3	8.2
PG135-103ML	10.0	14.1	15.5	18	6.1	10.4	15.7	6.1	8.0

Remark

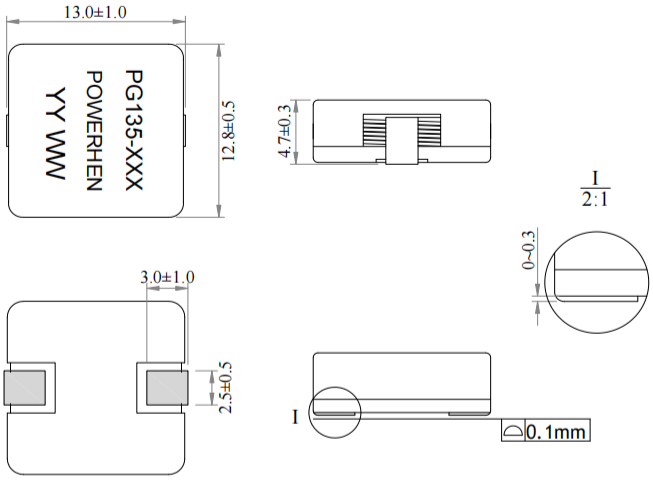
①Inductance is measured with a LCR meter Agilent 4284A or equivalent. Test frequency at 100kHz
②DC resistance is measured with keithley 580 Milliohm Meter , or equivalent. Reference ambient temperature 25°C
③SRF measured using an Agilent 4395A network analyzer and an Agilent 16193A test fixture.
④DC 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

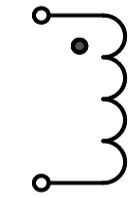
备注

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

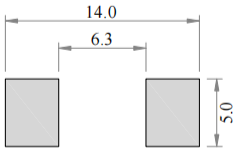
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■Dimensions 结构尺寸



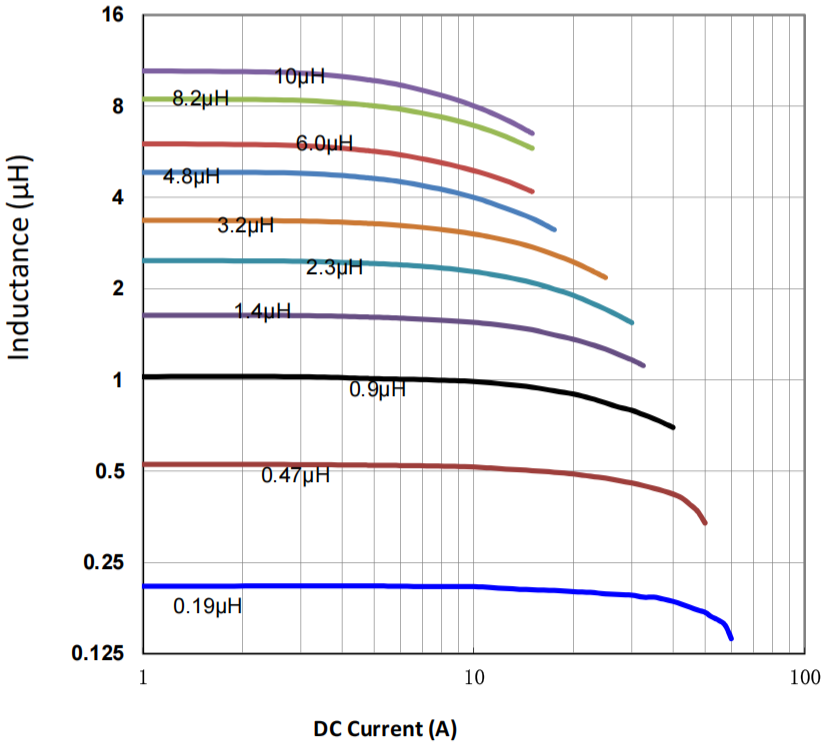


SCHEMATIC



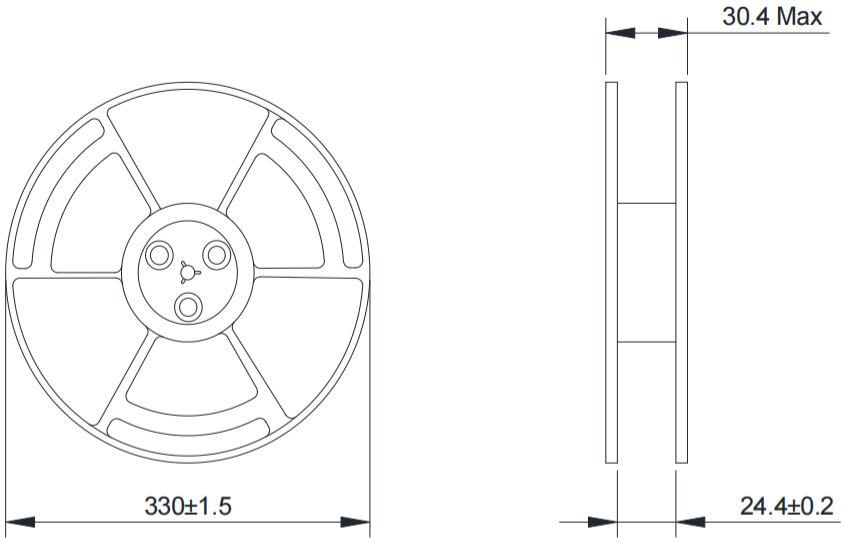
PCB LAYOUT

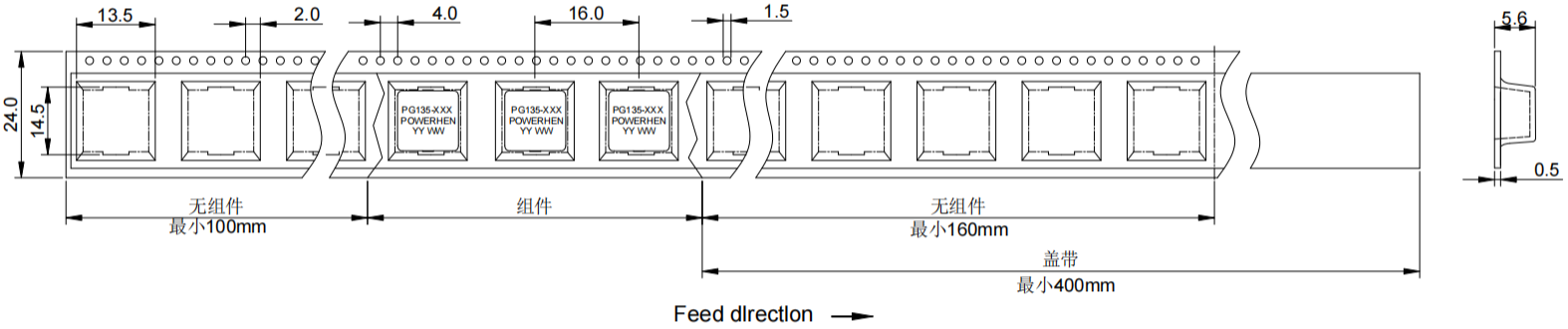
Electrical Characteristic Curve 电气特性曲线



■Packaging Specification - Tape and Reel: [mm]

包装规格 - 卷带包装：[mm]





Weight 重量:4.4~4.78g/PCS

Packaging 包装数量: 500 PCS/Reel

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