芯芒微电子

XINMANG MICROELECTRONICS

POWERHEN

Electronics

产品规格书

PG105

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

■PG105 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
- 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
PG105-161ML	0.16	0.51	0.56	400	41	60	78	16	26
PG105-401ML	0.4	0.67	0.74	160	33.5	42	57	15	24
PG105-721ML	0.72	1.30	1.43	115	17	27.5	42	13.5	22
PG105-122ML	1.2	1.8	1.98	75	16	26.6	36	13	18.2
PG105-182ML	1.8	3.5	3.83	70	13.6	21.6	28.8	11	15.2
PG105-242ML	2.4	4.75	5.23	67	12	19.4	26	8	12.2
PG105-332ML	3.3	5.9	6.5	54	11.8	17.6	23.1	7.8	11.4
PG105-422ML	4.2	7.1	7.8	33	8.2	13.9	19	7.6	10.6
PG105-552ML	5.5	10.3	11.33	30	7.2	12.2	16.8	7	9.3
PG105-652ML	6.5	12.5	13.75	27	6.8	11.4	15.5	5.5	7.3
PG105-782ML	7.8	13.6	15	23	6.2	9.8	14	5.1	7.1
PG105-103ML	10	16.3	18	21	5	7.8	10.5	4.8	6.5
PG105-163ML	16	34.5	38	18	4	6.5	8.8	3.3	4.4

Remark

① Inductance 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。

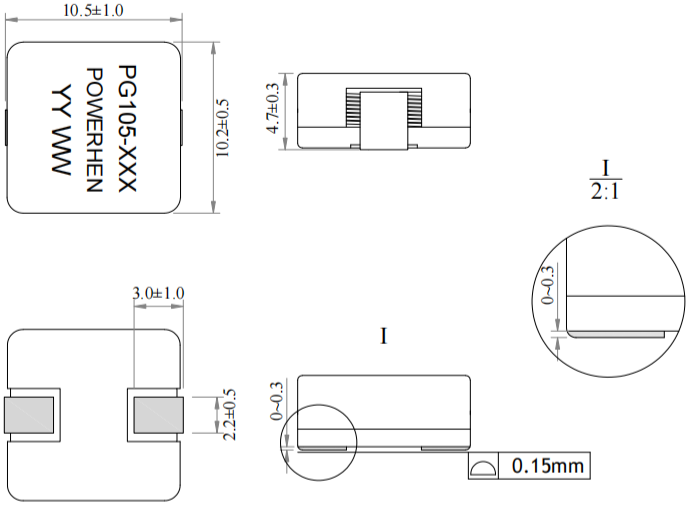
④直流电流在 25° C，加载导致指定电感从没有电流的值下降。

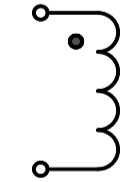
⑤导致指定温度从 25° C 环境温度上升的电流。 此信息仅供参考，不代表绝对最大额定值。

⑥25° C 时的电气规格

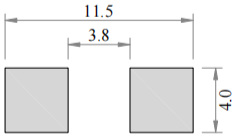
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■Dimensions 结构尺寸



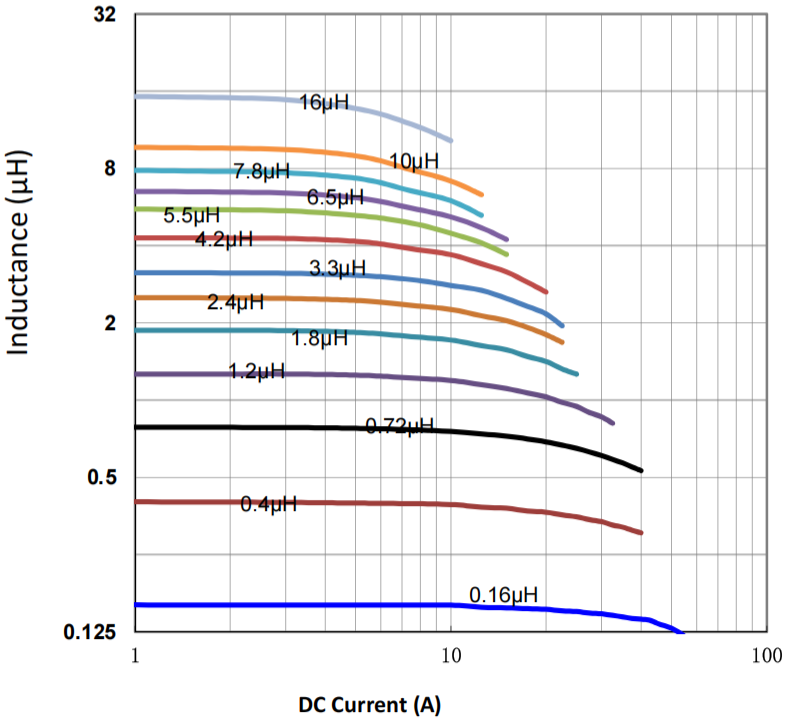


SCHEMATIC



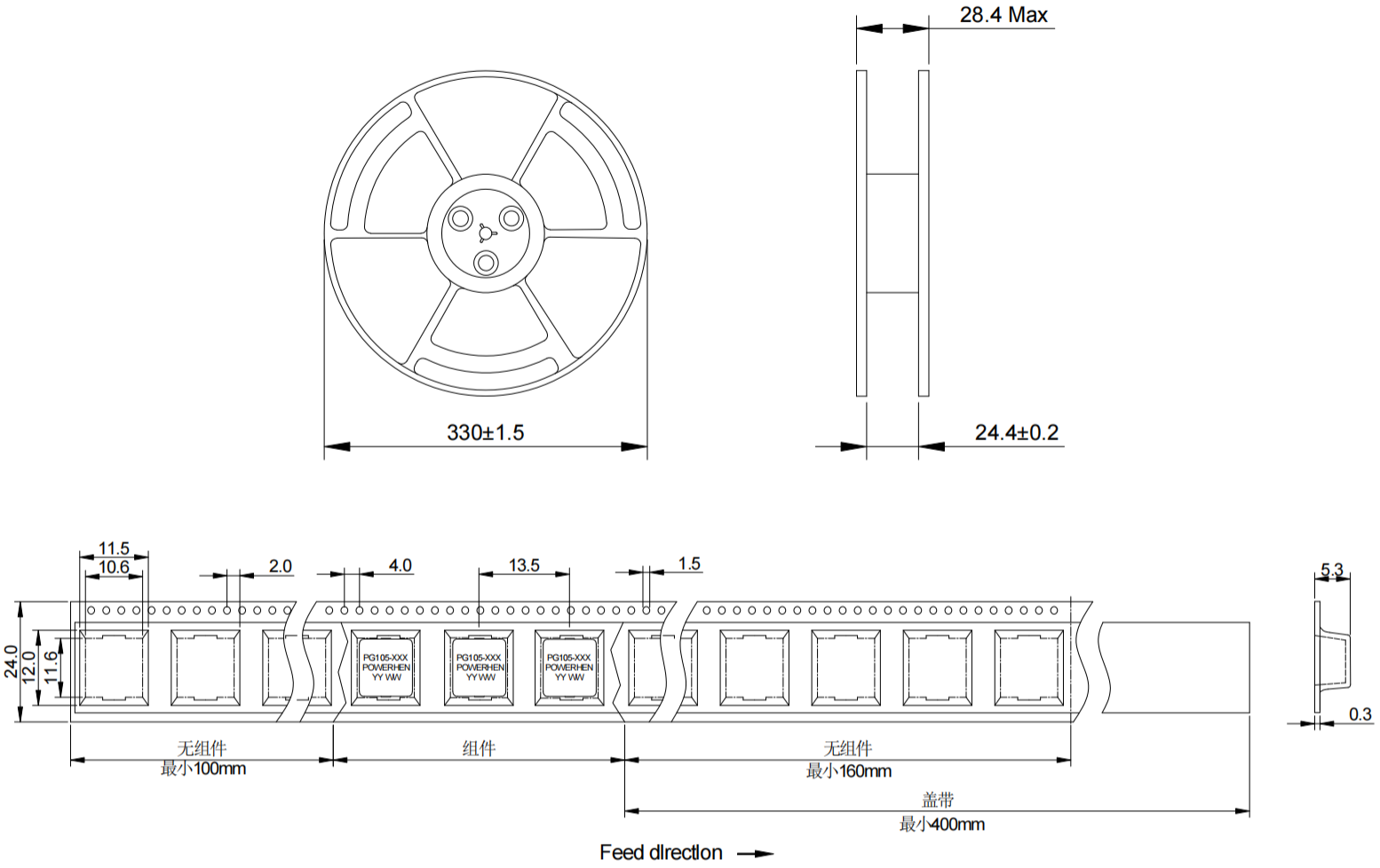
PCB LAYOUT

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: 2.51~2.8g/PCS

Packaging 包装数量: 700 PCS/Reel