芯芒微电子

XINMANG MICROELECTRONICS

POWERHEN

Electronics

产品规格书

PG104

贴片大电流功率电感

联系我们 / CONTACT

电话：0755-28088656

手机 / 微信：13823685284

地址：深圳市龙华新区观澜深粮汽车电子特色工业园A2栋3楼

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

■PG104 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	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
PG104-151ML	0.15	0.58	0.64	257	24	44	58	43	56
PG104-331ML	0.33	1.1	1.22	170	18	32	37	30	42
PG104-561ML	0.56	1.61	1.78	100	17	27.5	35	25	36
PG104-102ML	1.0	3.3	3.65	80	16	24	31	19	23
PG104-152ML	1.5	5.3	5.83	63	13	19	25	16	18
PG104-222ML	2.2	7.3	10.1	53	12	17.6	22.8	13	15
PG104-282ML	2.8	10.6	11.7	46	9.2	14.5	19.5	9	12
PG104-432ML	4.3	14.1	15.5	33	9	13	17	8	11
PG104-562ML	5.6	20.6	22.66	30	7	10	14	5	8.3
PG104-682ML	6.8	22.2	24.5	25	6.2	9.8	12	4.8	8

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。

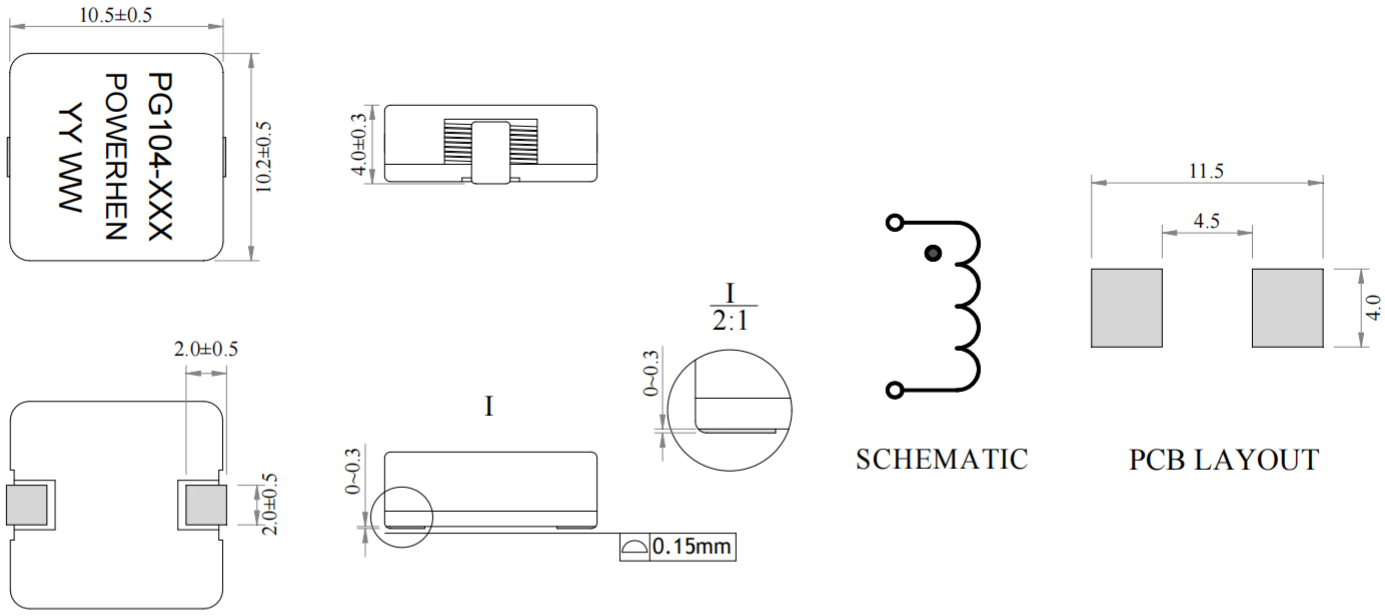
④直流电流在 25° C，加载导致指定电感从没有电流的值下降。

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。

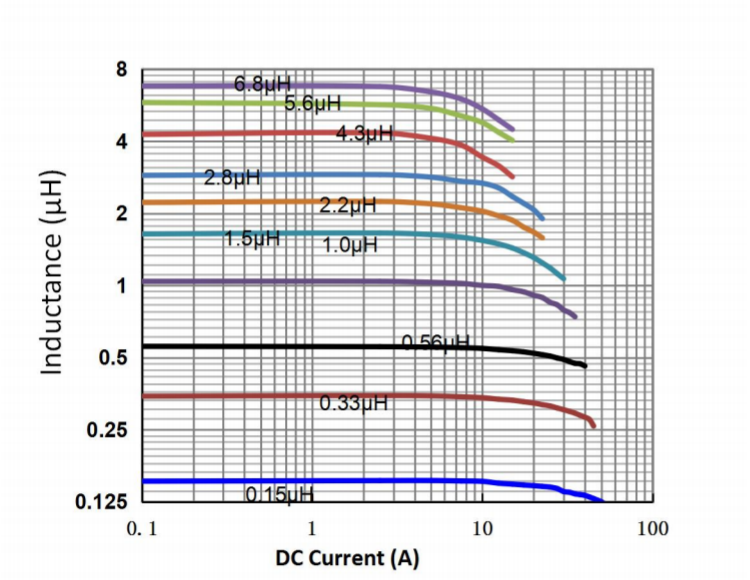
⑥25° C 时的电气规格

ShenZhen Powerhen Electronic Co.,Ltd
Addr:Floor 3, Building 2, Shenliang Automotive Electronic Industrial Park, Guanlan Town, Shenzhen
Tel:0755-23570708 *E-Mail:sales@powerhen.com*

■Dimensions 结构尺寸



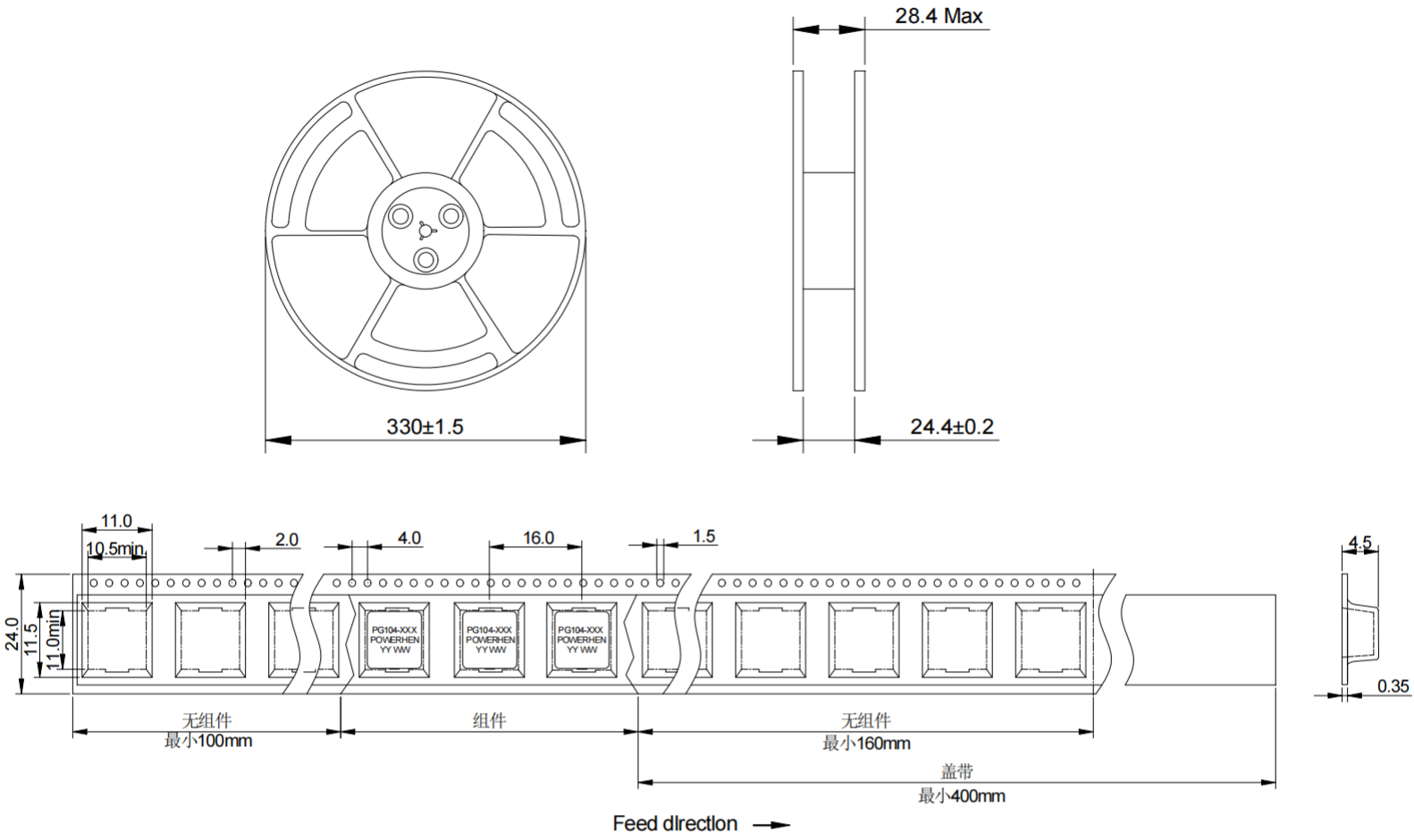
Electrical Characteristic Curve 电气特性曲线



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■Packaging Specification - Tape and Reel: [mm]

包装规格 - 卷带包装：[mm]



Weight 重量: 1.88~2.12g/PCS

Packaging 包装数量: 800 PCS/Reel