芯芒微电子

XINMANG MICROELECTRONICS

POWERHEN

Electronics

产品规格书

PG54

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

■PG54 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
PG54-221ML	0.22	1.25	1.38	507	9	15	23.5	22	30
PG54-331ML	0.33	1.75	1.95	402	11	16.5	22.5	19	25.5
PG54-471ML	0.47	2.75	3.1	280	10	15	20	16	19.5
PG54-681ML	0.68	4.0	4.4	253	8	12	16.5	14	16
PG54-102ML	1.0	4.75	5.3	158	7.5	11	14.5	12	14.8
PG54-152ML	1.5	8.15	9.0	110	4.5	7	9.2	8	11
PG54-222ML	2.2	11.3	12.5	108	3	4.6	6.2	6	9.2
PG54-332ML	3.3	18.5	20.5	66	3.2	4.8	6.5	4.5	7.1
PG54-472ML	4.7	24.5	27	57	2	3	4.1	3.8	6
PG54-562ML	5.6	28.5	31.5	48	2.4	3.5	4.8	3.2	5.5

Remark

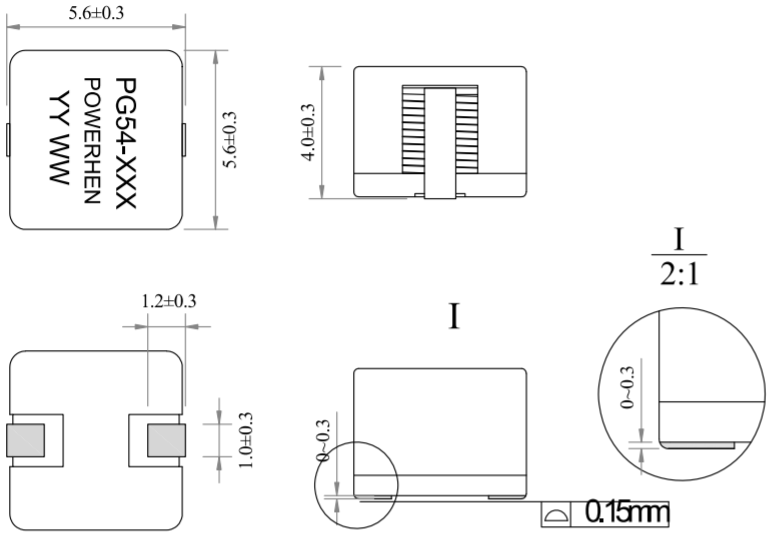
①Inductance is measured with a LCR meter Agilent 4284A or equivalent.
Test frequency at 100kHz
②DC resistance is measured with keithley 580 Milliohm Meter , or equivalent.
Reference ambient temperature 25°C
③SRF measured using an Agilent 4395A network analyzer and an Agilent 16193A test fixture.
④DC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

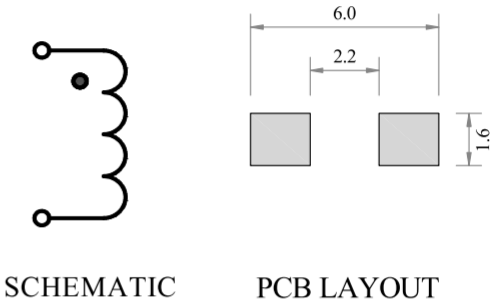
备注

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

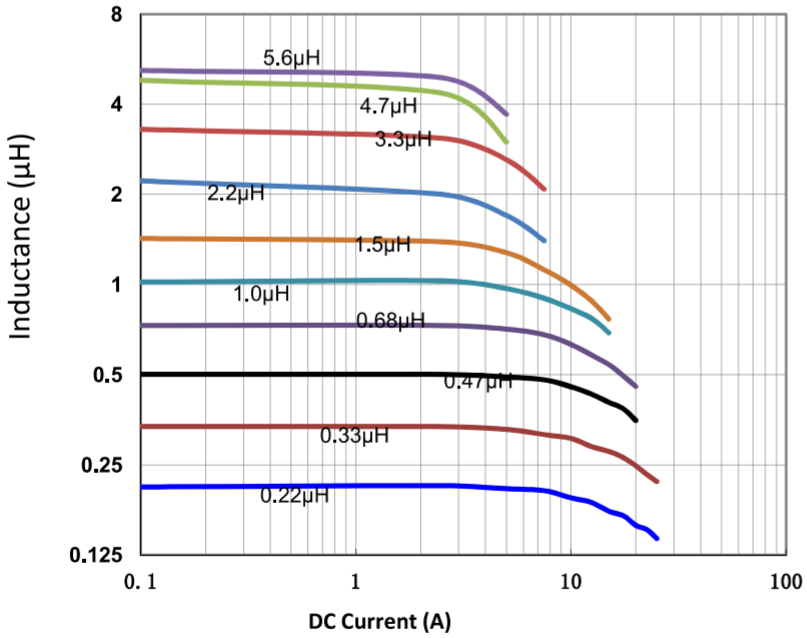
ShenZhen Powerhen Electronic Co.,Ltd
Addr:Floor 3, Building 2, Shenliang Automotive Electronic Industrial Park, Guanlan Town, Shenzhen
Tel:0755-23570708 *E-Mail:sales@powerhen.com*

■Dimensions 结构尺寸



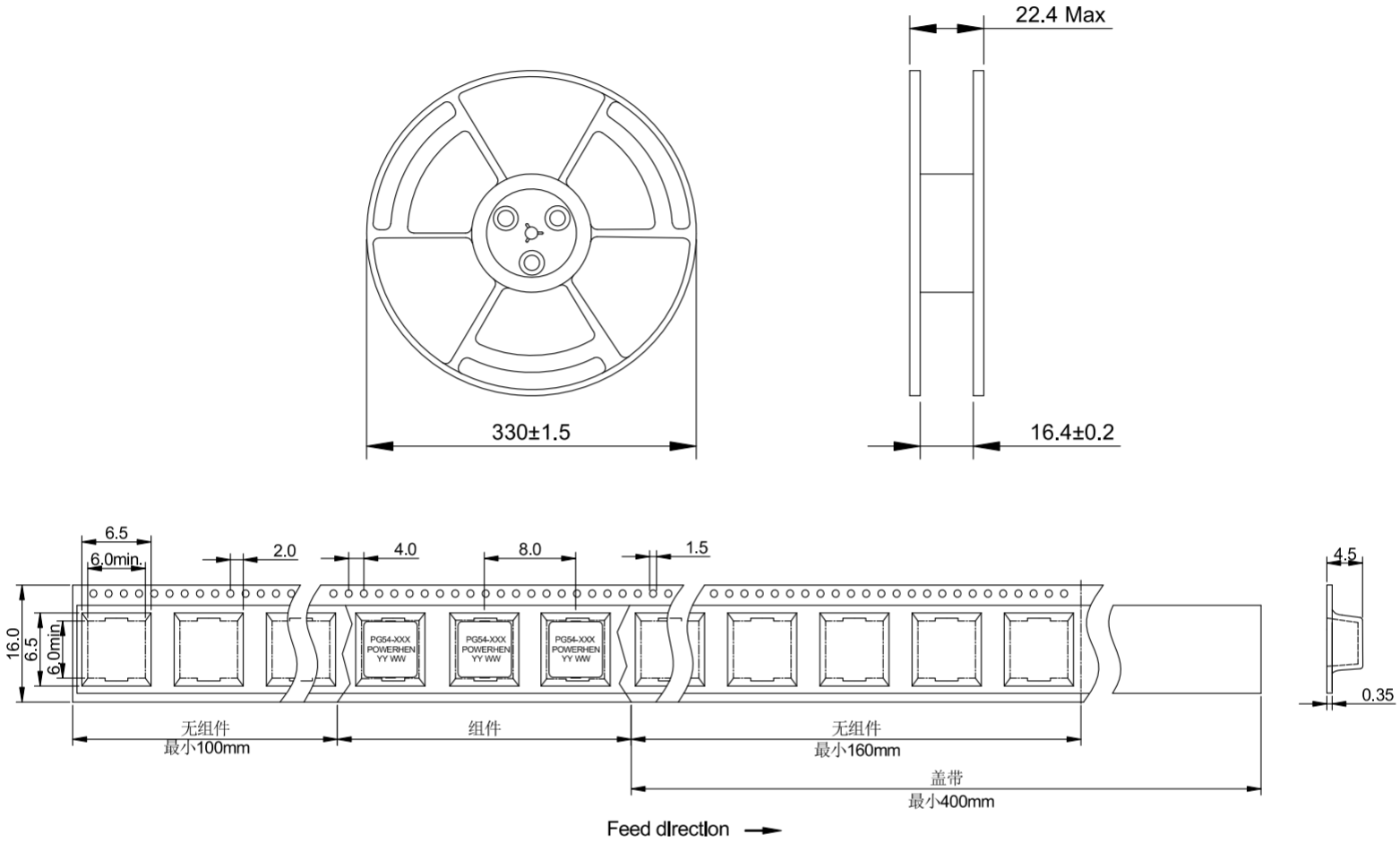


Electrical Characteristic Curve 电气特性曲线



■Packaging Specification - Tape and Reel: [mm]

包装规格 - 卷带包装：[mm]



Weight 重量: 0.63~0.69g/PCS

Packaging 包装数量: 1500 PCS/Reel