

■PG54 Series

Features 特点

- Using 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: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$. 工作温度: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
- Tape and reel packaging: -40°C to $+80^{\circ}\text{C}$ 卷带包装: -40°C 至 $+80^{\circ}\text{C}$
- Resistance to soldering heat Max three 40 second reflows at $+260^{\circ}\text{C}$, parts cooled to room temperature between cycles
耐焊接热最多三个 40 秒回流 $+260^{\circ}\text{C}$, 部件在循环之间冷却至室温
- Moisture Sensitivity Level (MSL) 1 (unlimited floor life at $<30^{\circ}\text{C}$ / 85% relative humidity)
湿气敏感度等级 (MSL) 1 (在 $<30^{\circ}\text{C}$ 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 $\mu\text{H} \pm 20\%$	② DC resistance $\text{m}\Omega$ typ max.		③ SRF typical MHz	④ I_{sat} A typical			⑤ I_{rms} A typical	
					10% drop	20% drop	30% drop	20°C rise	40°C 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

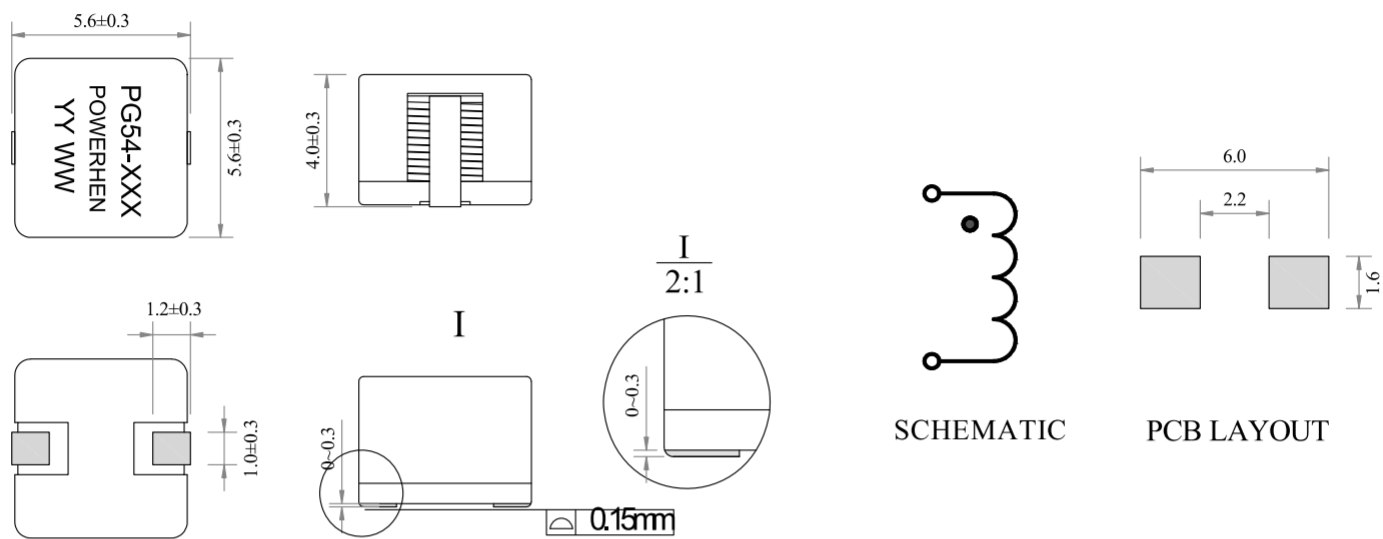
Remark

- ① Inductance is measured with a LCR meter Agilent 4284A or equivalent.
Test frequency at 100kHz
- ② DC resistance is measured with Keithley 580 Milliohm Meter, or equivalent.
Reference ambient temperature 25°C
- ③ SRF measured using an Agilent 4395A network analyzer and an Agilent 16193A test fixture.
- ④ DC current at 25°C that causes the specified Inductance drop from its value without current.
- ⑤ Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.
- ⑥ Electrical specifications at 25°C

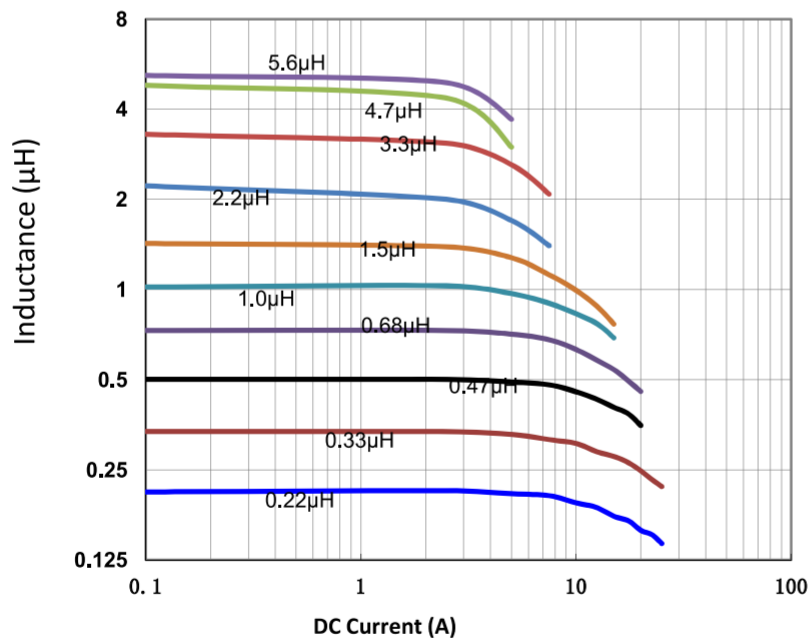
备注

- 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
- ③ SRF 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。
- ⑥ 25°C 时的电气规格

Dimensions 结构尺寸

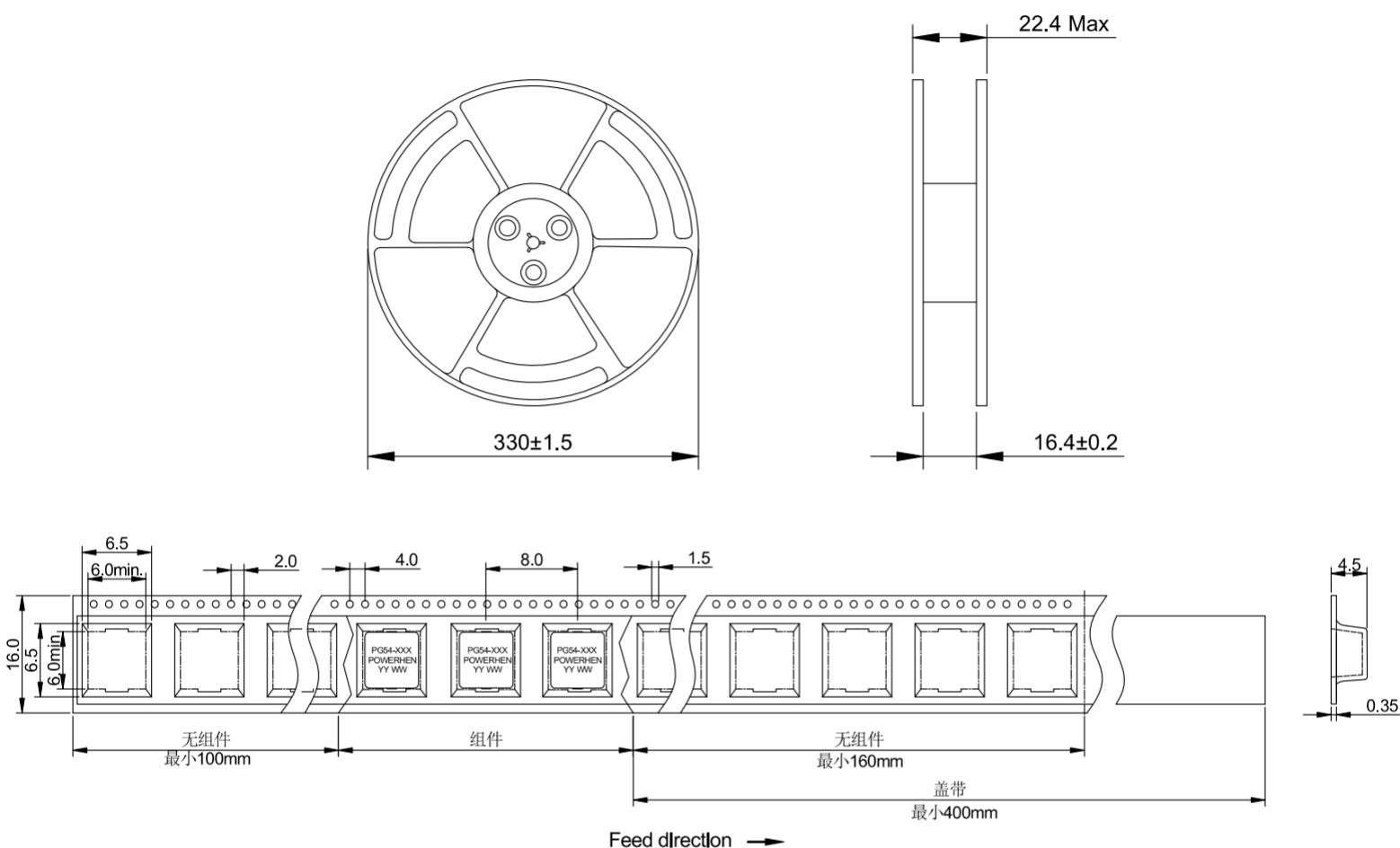


Electrical Characteristic Curve 电气特性曲线



■ 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